opentext[™]

Fortify on Demand

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User Guide

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Open Text Corporation

275 Frank Tompa Drive, Waterloo, Ontario, Canada, N2L 0A1

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Documentation Updates

The title page of this document contains the following identifying information:

- Software Version number
- Document Release Date, which changes each time the document is updated
- Software Release Date, which indicates the release date of this version of the software

This document was produced on February 07, 2024. To check for recent updates or to verify that you are using the most recent edition of a document, go to:

https://www.microfocus.com/support/documentation

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Preface

Contacting OpenText Fortify on Demand Customer Support

Contact OpenText Fortify on Demand Customer Support through the following ways:

- Start a live chat or create a support ticket in the Fortify on Demand Help Center, accessible from the Fortify on Demand portal.
- Call 1.800.893.8141 or 650.800.3233.

For More Information

For more information about Fortify software products:

https://www.microfocus.com/cyberres/application-security

About the Documentation Set

The Fortify Software documentation set contains installation, user, and deployment guides for all Fortify Software products and components. In addition, you will find technical notes and release notes that describe new features, known issues, and last-minute updates. You can access the latest versions of these documents from the following OpenText Product Documentation website:

https://www.microfocus.com/support/documentation

To be notified of documentation updates between releases, subscribe to Fortify Product Announcements on the OpenText Community:

https://community.microfocus.com/cyberres/fortify/w/fortify-product-announcements

Fortify Product Feature Videos

You can find videos that highlight Fortify products and features on the Fortify Unplugged YouTube channel:

https://www.youtube.com/c/FortifyUnplugged

What's New

This section describes new features, improvements, and other updates in each release.

v24.1

Engine and Rulepack Updates

Fortify Software Security Content 2023 Update 3 Support (December 2023)

Fortify on Demand has implemented Fortify Software Security Content 2023 update 3 from Fortify Security Research (SSR). For more information, see https://community.microfocus.com/cyberres/fortify/w/announcements/46252/opentext-fortifysoftware-security-content-2023-update-3.

Fortify Static Code Analyzer 23.2.0 Support

Fortify on Demand will implement Fortify Static Code Analyzer 23.2.0 for scanning source code on January 30th. Fortify Static Code Analyzer 23.2.0 offers the following features:

Language and framework updates:

- Angular 15.1, 15.2, 16.0
- Apex 58
- Bicep v0.12.x \rightarrow current
 - $0.12.1 \rightarrow 0.14.85$ (supporting .NET 6)
 - $0.15.31 \rightarrow \text{current (supporting .NET 7)}$
- C# 12
- C17
- Dart 3.0
- ECMAScript 2023
- Go 1.20
- Kotlin 1.8
- .NET 8.0
- Python 3.12
- Django up to 4.2
- React 18.0
- Solidity 0.4.12-0.8.21

- Swift 5.9
- TypeScript 5.0

Compiler updates:

- Clang 15.0.0
- Swiftc 5.9

New Features

DAST Automated Assessment Updates

The following updates have been made to the DAST Automated assessment to help with configuring and troubleshooting DAST Automated scans:

• An optional service is now available in which the Fortify on Demand testing team generates a login macro and performs false positive removal. Users can select login macro generation or false positive removal or both when configuring scan settings. The service is available once per application and consumes 1 additional assessment unit.

If users want to request both login macro generation and false positive removal, they must select both options together; once a scan that includes either option has been completed, both options will be disabled for subsequent scans.

- Site accessibility check is available for DAST Automated Website scans.
- The login macro used in a scan is available for download on the Scans pages.
- The scan log for a failed scan is available for download on the Scans pages.
- The scan status icon for completed scans that have partial results is now highlighted in orange. Partial results from DAST Automated scans occur when the scan duration exceeds the specified timebox.

Debricked Integration Updates

The following updates have been made to the Debricked integration:

- Partial results are now available for Debricked scans. To help with troubleshooting, the scan summary displays the error messages along with the full path of the lock files that failed to resolve.
- The **Dependencies** tab on the issue details panel now provides a way to track each instance of an issue found in different lock files. Selecting a lock file from the drop-down list displays the full path of the selected lock file.
- Users can now submit Debricked scans on imported third party Software Bill of Materials. Debricked scan results from third party SBOMs are displayed the same way as Debricked scan results from application payloads.

API Updates

The following updates have been made to the Fortify on Demand API:

- DAST Automated GET endpoints return the file name and file type of uploaded files.
- AssessmentTypes have been added as a type parameter value for GET /api/v3/lookupitems.

Mobile Assessment Payload Validation

Fortify on Demand now performs payload validation when mobile scan payloads are submitted through the portal.

Improvements

API Explorer Improvements

The following updates have been made to API Explorer to improve documentation usability:

- For parameters where values can be obtained by calling an API endpoint, the parameter descriptions now include the relevant endpoint URL.
- Where applicable, the filters parameter description has been updated to list fields that cannot be used for filtering.

Chapter 1: Introduction

This guide provides instructions on using Fortify on Demand to run application security testing in the cloud. This guide is intended for application security professionals and development teams.

This section contains the following topics:

Fortify on Demand Overview	
Security Rating System	
Service Level Objectives	19

Fortify on Demand Overview

Fortify on Demand is a Software as a Service (SaaS) solution that enables your organization to easily and quickly build and expand a Software Security Assurance program. Fortify on Demand's software security testing incorporates advanced and updated application testing technologies with expert review, dedicated account management, and 24/7 support.

An application submitted to Fortify on Demand undergoes a security assessment where it is analyzed for various software security vulnerabilities. Fortify on Demand offers static, dynamic, and mobile assessments at several service levels. For applications already in production, the Continuous Application Monitoring service combines continuous dynamic vulnerability scanning and risk profiling to provide visibility into the risk facing your organization's external-facing application portfolio.

Security Assessments

A static assessment analyzes an application's source code, bytecode, and/or binary code. A dynamic assessment analyzes a running web application. A mobile assessment analyzes the mobile application's binary (analysis of network and backend web server is also available).

The Fortify on Demand testing team conducts a thorough analysis of your application for security vulnerabilities, including:

- Application scanning: the application is scanned using Fortify software.
- Expert review: an automated or manual audit (depending on the assessment type) of the scan results is included to ensure the highest possible degree of accuracy.
- Remediation validation: an assessment includes at least one free remediation scan to validate that the issues found have been fixed. The remediation scan is run on the same application after changes have been made to remedy the vulnerabilities found in the baseline assessment.

Fortify on Demand uses a 5-star rating system to rate applications that have been assessed. The assessment results are delivered in several ways, including various views in the UI, customizable reports, and detailed data exports.

Entitlements

Fortify on Demand security testing services are available through the purchase of entitlements in the form of assessment units or scans. Entitlements are valid for 12 months from the effective date of the order term.

Assessment units can be redeemed for single assessments or subscriptions of any assessment type; scan entitlements represent quantities of single assessments or subscriptions of a specific assessment type. Subscriptions allow unlimited assessments of selected applications during the subscription period.

Refer to your contract for specific entitlement details.

Support

Fortify on Demand offers support through self-service resources and the Fortify on Demand Help Center, staffed 24/7 by a dedicated support team of Technical Account Managers (TAMs).

Security Rating System

Fortify on Demand provides useful information about the vulnerability of your applications. To ensure that the results you receive are consistent, understandable, and actionable, Fortify on Demand uses the following reporting conventions to rate your applications:

Likelihood and Impact	
Priority Order	
Five-Star Assessment Rating	

Likelihood and Impact

The likelihood and impact ratings define the level of risk for each discovered vulnerability.

Likelihood

Likelihood is the probability that a vulnerability will be accurately identified and successfully exploited.

Impact

Impact is the potential damage an attacker could do to assets by successfully exploiting a vulnerability. This damage could be in the form of, but not limited to, financial loss, compliance violation, loss of brand reputation, and negative publicity.

Priority Order

Fortify on Demand defines the following six priority levels as a way to categorize the severity of vulnerabilities (also known as "issues").

Critical

Critical issues have high potential impact and high likelihood of occurring. Critical issues are easy to detect and exploit and result in large asset damage. These issues represent the highest security risk to an application. As such, immediately remediate critical issues.

SQL injection is an example of a critical issue.

High

High-priority issues have high potential impact, but low likelihood of occurring. High-priority issues are often difficult to detect and exploit, but they can result in large asset damage. These issues represent a high security risk to an application. Remediate high-priority issues in the next scheduled patch release.

Hard-coded password is an example of a high issue.

Medium

Medium-priority issues have a low potential impact, but high likelihood of occurring. Medium-priority issues are easy to detect and exploit, but they typically result in little asset damage. These issues represent a moderate security risk to your application. Remediate medium-priority issues in the next scheduled product update.

Path manipulation is an example of a medium issue.

Low

Low-priority issues have low potential impact and low likelihood of occurring. Low-priority issues can be difficult to detect and exploit and typically result in little asset damage. These issues represent a minor security risk to your application. Remediate low-priority issues as time allows.

Dead code is an example of a low issue.

Best Practices

"Best practices" indicates no significant vulnerabilities in your application, just minor issues that may be less than ideal for your type of application.

Info

"Info" is the lowest priority level. Fortify on Demand provides information about your application that does not represent a vulnerability but may be of general interest.

Five-Star Assessment Rating

The Fortify on Demand 5-star rating system provides an overview on the likelihood and impact of vulnerabilities present within an application. A perfect rating within this system would be 5-stars, indicating that no vulnerabilities were uncovered.

★Correction Fortify on Demand awards one star to applications that have undergone a security review that identifies critical (high likelihood and high impact) issues. Vulnerabilities that are trivial to exploit and have a high business or technical impact should never exist in business-critical software.

****** Fortify on Demand awards two stars to applications that have undergone a security review that identifies no critical (high likelihood and high impact) issues. Vulnerabilities that have a high impact, even if they are non-trivial to exploit, should never exist in business critical software.

Fortify on Demand awards three stars to applications that have undergone a security review that identifies no high (low likelihood and high impact) issues and meets the requirements needed to receive two stars. Vulnerabilities that have a low impact, but are easy to exploit, should be considered carefully as they may pose a greater threat if an attacker exploits many of them as part of a concerted effort or leverages a low impact vulnerability as a stepping stone to mount a high-impact attack.

******* Fortify on Demand awards four stars to applications that have undergone a security review that identifies no medium (high likelihood and low impact) issues and meets the requirements for three stars.

******** Fortify on Demand awards five stars, the highest rating, to applications that have undergone a security review that identifies no issues.

Service Level Objectives

All assessments have a target turnaround time, represented by the service level objective (SLO) of the chosen assessment type. The SLO is specified in business days, based on the Fortify on Demand data center's time zone. The SLO is four hours to two business days for a static assessment, two to three business days for a dynamic assessment, and one to four business days for a mobile assessment.

Note: The portal displays the SLO of the selected assessment type when you are setting up an assessment. For more information, see "Configuring a Static Scan" on page 107,"Configuring a Dynamic Scan" on page 128, and "Configuring a Mobile Scan" on page 156.

If an assessment does not meet customary testing requirements, the testing team may pause the SLO timer while waiting for a response from the customer. The testing team is committed to promptly restarting the timer and testing as soon as possible.

If you have additional questions about SLOs and balancing your business timeline with an assessment service level, contact support.

Note: Service Level Agreements (SLAs) are specific contractual agreements with customers. The turnaround times may differ from defined SLOs. Service Level Agreements are defined in your customer statement of work (SOW) and include targets and liabilities if they are not met.

Service Level Objective Start and End Dates

The SLO start and end dates are defined as follows:

- Start Date: The date the application assessment was requested to be started
- End Date: The date the results are available

Service Level Objective Exceptions

A static assessment SLO does not apply to any of the following exceptions:

- Application has not been packaged correctly as per Fortify on Demand best practice guidelines
- The application payload exceeds 1,000MB

A dynamic or mobile assessment SLO does not apply to any of the following exceptions:

- Fortify on Demand is not provided continuous 24-hour per day access and fully operational test credentials to assess the application that is in scope.
- Fortify on Demand is not able configure security testing tools to use a minimum of fifteen (15) concurrent connections continuously to assess a single application with an average response time of less than 600ms to an HTTP/HTTPS request
- Mobile binary is obfuscated or is not prepared as per Fortify on Demand best practice guidelines.

Chapter 2: Getting Started

This section contains the following topics:

Before You Start	21
Logging In and Out of the Portal	21
Resetting Your Password	23
Navigating the Portal	23
Searching the Portal	25
Managing Your Account Settings	25
Managing Notifications	29

Before You Start

Before you access Fortify on Demand, verify that you have the following:

- An active internet connection
- Portal credentials

Note: You will receive instructions for setting up your credentials in a welcome email. If you have not received the email, check your spam filter.

- Monitor with a minimum display resolution of 1280 x 720 (recommended 1920 x 1080)
- One of the following supported browsers installed:
 - Chrome latest version
 - Firefox Quantum latest version
 - Safari on Mac latest version (Safari on PC is not supported)
 - Edge latest version

Logging In and Out of the Portal

You can access the portal once you have received your portal credentials.

Logging in to the Portal

To log in to the portal:

- Type the portal URL that was provided with your user credentials in your browser's address bar. The login page appears.
- 2. Type your username, password, and tenant code.

F		\bigoplus English \vee
Fortify	on Dema	and
Username		
Password		
Tenant		
30341		
		Forgot password?
	Log in	
opentext	Contact Us	Privacy Notice

Note: If you have logged in through SSO within the last 30 days, the SSO Login link is available to log back in.

3. Click Login.

The landing page appears. If you have not set a challenge question and corresponding answer, you are redirected to your account settings page instead.

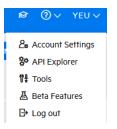
Note: If your organization has two factor authentication enabled, you are prompted to type a security code that you receive through SMS or email.

Logging out of the Portal

Log out of the portal from the portal toolbar settings. Note that the portal automatically logs you out after a 20 minute period of inactivity.

To log out of the portal:

1. Click your account name and select Log Out.



Resetting Your Password

To reset a forgotten password:

1. Click Forgot Your Password? on the login page.

The Forgot Password page appears.

Forgot Password
Please enter your username and the tenant code to help us locate your account.
Username
Tenant Code
SUBMIT

- 2. Type your username and tenant code.
- 3. Click Submit.

An email containing the password reset link is sent to the email address associated with the user account.

4. Click the link in the email.

The Reset Password page appears.

Note: If the password reset link has expired, follow the instructions in the email to request a new link.

- 5. In the **Password Challenge Answer** field, type the answer to the challenge question. If you do not have a password challenge question and answer, this step does not apply to you.
- 6. Type and retype the password.
- 7. Click **Ok**.

The password is reset.

Navigating the Portal

The portal pages share a common page layout. The following table describes general navigation in the portal.

Task	Action
Navigate to a parent view	Select one of the following views:
	APPLICATIONS DASHBOARD REPORTS ADMINISTRATI

Task	Action
Access account settings and additional resources	Click your account name on the toolbar.
Access portal search	Click Q . For more information, see _{"Searching the Portal" on the next page[.]}
Access portal notifications	Click 29. For more information see "Managing Notifications" on page 29
Access training courses	Click 😰. For more information, see "Training Courses" on page 361
Access help resources	Click the help menu.
Navigate to a page within a parent view	Click an icon on the sidebar.
Access context- sensitive help	Click ⁽¹⁾ . A new window opens that displays the help topic for the feature.
Sort columns on a page	Click a column header. A white triangle in the header indicates the field being sorted and the sort order of your data. To reverse the order, click the header a second time.
Change the number	Click 25 , 50 , or 100 .

Task	Action
of items displayed on a page	Display: 25 50 100
	Note: The Discovered tab on Your Applications page supports displaying 250 and 500 items per page.
View another page in the list	Click a page number or an arrow. 1 2 3 4 $\rightarrow \rightarrow$

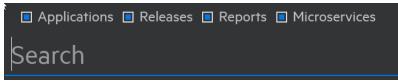
Searching the Portal

Fortify on Demand provides several ways of locating a resource in the portal. You can use the **Search** box located in the portal toolbar to search for an application, release, microservice, or report at the tenant level.

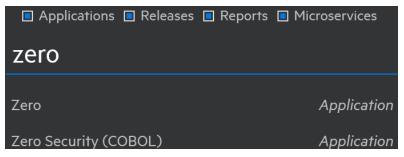
To search for an application, release, microservice, or report in the portal:

1. Click the \bigcirc icon on the portal toolbar.

The search box appears. All item types are included in the search by default.



- 2. Clear one or more of the **Applications**, **Releases**, **Reports**, and **Microservices** check boxes to limit search results to the desired selection.
- 3. In the search box, type the full or partial name of the item that you want to search for. Search results appear in a drop-down list.



4. Make your selection from the list. The portal refreshes with your selection.

Managing Your Account Settings

You can view and edit your account settings from the portal toolbar.

This section covers the following topics:

Editing Your Account Settings	
Changing Your Account Password	27
Opting In To and Out Of Beta Features	

Editing Your Account Settings

You can update your personal contact information, portal preferences, and password reset question and answer on the My Account page.

To edit your account settings:

1. Click your account name and select **Account Settings**.

The My Account page appears.

Security Warning : Please help improve the security of your account by providing a password reset challenge question and answord. First Name Yeu Last Name Horang Phone Number Other Number The following settings determine what formats are used to display dates and times. Changes to display formats will not be reflected until the next data refresh. Date Format Time Format 12 Hour AM/PM Language English	My Account		CHANGE PASSWORD	SAVE
Yeu borange Last Name horangy Horang Tenant Phone Number 30004 Email Subscriptions Signup (Check to Subscribe) The following settings determine what formats are used to display dates and times. Signup (Check to Subscribe) Changes to display formats will not be reflected until the next data refresh. Image Release and Maintenance Notifications Date Format Image 12 Hour AM/PM v	Security Warning : Please help improve the security of your account by providing a	password reset challenge question and answer.		
Last Name horangy Horang Tenant Phone Number 30004 Email Subscriptions Signup (Check to Subscribe) The following settings determine what formats are used to display dates and times. Signup (Check to Subscribe) Changes to display formats will not be reflected until the next data refresh. In Release and Maintenance Notifications Date Format Is Security Advisories and Research YYYYY/MM/DD Image		Username		
Horang Tenant Phone Number 30004 Phone Number Signup (Check to Subscriptions) The following settings determine what formats are used to display dates and times. Signup (Check to Subscribe) Changes to display formats will not be reflected until the next data refresh. Release and Maintenance Notifications Events (Ex: Webinars. Conference, etc) Security Advisories and Research Time Format 12 Hour AM/PM Language 	Yeu	horangy		
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times. Changes to display formats will not be reflected until the next data refresh. Date Format YYYY/M/DD Time Format 12 Hour AM/PM Language Lan		Email Subscriptions		
Changes to display formats will not be reflected until the next data refresh. Date Format YYYY/MM/DD Time Format I 2 Hour AM/PM Language		Signup (Check to Subscribe)		
VYYY/M/DD V Time Format 12 Hour AM/PM V Language	Changes to display formats will not be reflected until the next data refresh.	Events (Ex. Webinars, Conferences, etc.)		
Time Format 12 Hour AM/PM ~ Language	Date Format	Security Advisories and Research		
12 Hour AM/PM V Language	YYYY/MM/DD 🗸			
Language	Time Format			
	12 Hour AM/PM 🗸			
English	Language			
	English 🗸			
Password Challenge Question	Password Challenge Question			
What is your favorite pet's name?	What is your favorite pet's name?			
Password Challenge Answer	Password Challenge Answer			
	-			

2. Update the fields as needed. Fields that are outlined in red must be completed.

Field	Description
First Name	Your first name
Last Name	Your last name
Phone Number	Your phone number
Date Format	Date format displayed: MM/DD/YYYY, DD/MM/YYYY, YYYY/MM/DD
Time Format	Time format displayed: 12 Hour AM/PM , 24 Hour

Field	Description
Language	Language displayed: English , Español , 日本語
	Note: Your reports are generated in your selected language.
Password Challenge Question	A list of password challenge questions
Password Challenge Answer	Your case-insensitive answer to the selected password challenge question
	Note: You will not be able to save your account changes unless you have set a password challenge question and answer.

- 3. Update your subscriptions in the **Email Subscriptions** section. Email subscriptions keep you upto-date with Fortify on Demand events. You can sign up to receive notifications about releases and maintenance, security advisories, and relevant webinars and conferences.
- 4. Click Save.

A confirmation message appears indicating that you have successfully saved your changes.

Changing Your Account Password

You can change your account password on the My Account page.

Note: Passwords must be at least 16 characters long, not contain easy common password phrases, and have at least: 1 capital letter, 1 lower case letter, 1 number, and 1 special character.

To change your account password:

1. Click your account name and select **Account Settings**.

The My Account page appears.

Security Warning : Please help improve the security of your account by providing a password reset challenge question and answer. First Name Yeu Last Name Horang Horang Phone Number Date Format 12 Hour AM/PM Lapuage English Password Challenge Question What is your favorite per's name?	My Account	CHANGE PASSWORD	S/
Yeu Username horangy Last Name Horang Horang Phone Number 30004 Email Subscriptions The following settings determine what formats are used to display dates and times. Changes to display formats will not be reflected until the next data refresh. Date Format 12 Hour AM/PM Language English Password Challenge Question	Security Warning : Please help improve the security of your account by providing	g a password reset challenge question and answer.	
Last Name horangy Horang Tenant Phone Number 30004 Date Format Signup (Check to Subscriptions) Changes to display formats will not be reflected until the next data refresh. Signup (Check to Subscribe) Date Format Signup (Check to Subscribe) YYYY/MM/DD Security Advisories and Research Time Format Security Advisories and Research 12 Hour AM/PM V Password Challenge Question V		Username	
Horang Tenant Phone Number 30004 Email Subscriptions Email Subscriptions The following settings determine what formats are used to display dates and times. Signup (Check to Subscribe) Changes to display formats will not be reflected until the next data refresh. Signup (Check to Subscribe) Date Format Events (Ex. Webinare, Conferences, etc) YYYY/MM/DD V Time Format Security Advisories and Research 12 Hour AM/PM V Password Challenge Question V	Yeu	horangy	
Phone Number 30004 Phone Number Signup (Check to Subscriptions The following settings determine what formats are used to display dates and times. Signup (Check to Subscribe) Changes to display formats will not be reflected until the next data refresh. Release and Maintenance Notifications Date Format Events (Ex. Webinars, Conferences, etc) YYYY/MM/DD Security Advisories and Research Time Format English 12 Hour AM/PM Password Challenge Question Security Advisories		Tenant	
Phone Number Email Subscriptions The following settings determine what formats are used to display dates and times. Signup (Check to Subscribe) Changes to display formats will not be reflected until the next data refresh. Release and Maintenance Notifications Date Format Security Advisories and Research YYYY/MM/DD V Time Format Security Advisories and Research Language English Password Challenge Question V	Horang		
The following settings determine what formats are used to display dates and times. Changes to display formats will not be reflected until the next data refresh. Date Format YYYY/MM/DD Time Format 12 Hour AM/PM Language English Password Challenge Question Signup (Check to Subscribe) Signup (Check to Subscri	Phone Number	30004	
times. Changes to display formats will not be reflected until the next data refresh. Date Format YYYY/MM/DD Time Format 12 Hour AM/PM Language English Password Challenge Question		Email Subscriptions	
Changes to display formats will not be reflected until the next data refresh. Date Format YYYY/M/DD V Time Format I 2 Hour AM/PM V Language English V Password Challenge Question		Signup (Check to Subscribe)	
Date Format Image: Security Advisories and Research YYYY/MM/DD Image: Security Advisories and Research 12 Hour AM/PM Image: Security Advisories and Research Language Image: Security Advisories and Research Password Challenge Question Image: Security Advisories and Research	Changes to display formats will not be reflected until the next data refresh.		
Time Format 12 Hour AM/PM Language English Password Challenge Question	Date Format	Security Advisories and Research	
12 Hour AM/PM Language English Password Challenge Question	YYYY/MM/DD 🗸		
Language English ~ Password Challenge Question	Time Format		
English ~	12 Hour AM/PM 🗸		
Password Challenge Question	Language		
	English 🗸		
What is your favorite pet's name?	Password Challenge Question		
	What is your favorite pet's name?		
Password Challenge Answer	Password Challenge Answer		

2. Click Change Password.

The Change Password page appears.

Change Password	
	Type in your existing passw
Old Password	
New Password	
Confirm New Password	
ок	BACK TO ACCOUNT

- 3. Type your current password in the **Old Password** field.
- 4. Type a new password in the **New Password** field.
- 5. Retype the new password in the **Confirm New Password** field.
- 6. Click **OK** button to change your password, or click **Back to Account** to exit the page.

Opting In To and Out Of Beta Features

Fortify on Demand might release beta features to collect feedback on their implementation. You can opt in to and opt out of beta features for your account.

To manage beta features:

1. Click your account name and select **Beta Features**.

The Beta Features page appears.

2. If beta features are available, move the slider from **No** to **Yes** to enable a beta feature and vice versa to disable it.

Click **Submit Feedback** to provide feedback. Your comments are appreciated.

Managing Notifications

Fortify on Demand provides a robust in-product notifications engine to enable users to better monitor key activity in the portal, which is particularly important for large applications and user bases. Users are initially assigned system default global subscriptions for notable events (including when an application's Business Criticality is changed, when a failing release is promoted to production, and when scans of an application are started, paused, completed, or canceled). Users can conveniently access notifications for applications to which they have access from the portal toolbar.

Users can create individual subscriptions to receive additional notifications. Security Leads can create tenant level global subscriptions for all users, specific roles, or specific groups. The following notification trigger types are available:

- Application Monitoring updates: changes between the enabled and disabled states, new vulnerabilities, risk profile updates
- Application creation, updates, and deletion
- Release creation, updates—including promotion of failing releases to production, and deletion
- Scan status updates
- Issue updates
- Report generation

This section contains the following topics:

Viewing Notifications	
Creating an Individual Subscription	30
Creating a Global Subscription	32
Editing a Subscription	
Deleting a Subscription	35

Viewing Notifications

You can view notifications from any page in the portal. When a trigger event occurs for which you are subscribed, a number next to the Notifications icon on the toolbar is incremented. This number is a tally of your notifications that have not been marked as read.

Note: All notifications, read or unread, are deleted after three months.

To view notifications:

1. Click the 🙋 icon on the portal toolbar.

The Notifications page appears, displaying a list of your unread notifications.

≡	My	Notifications				
	Unre	ad 29 Read 0	Sea	rch Text Q 🝸		
Û		29 found SELECT ALL				expand all collapse all
		TRIGGER	MESSAGE	DATE		Application Created 9
		Scan Completed	Mobile Assessment scan has completed for AUS_Shift (eNokia).	2017/10/20	✓ 69	Application Created 9 Release Created 5 Scan Canceled 10 Scan Completed 4
		Scan Canceled	Mobile Assessment scan has been cancelled for AUS_Shift (eNokia).	2017/10/20	✓ 60	Scan Completed 4 Scan Paused 1
		Scan Canceled	Mobile Assessment scan has been cancelled for AUS_Shift (eNokia).	2017/10/20	✓ 60	select all unselect all apply
		Scan Canceled	Dynamic Website Assessment scan has been cancelled for brand new app (1.5).	2017/10/20	~ ө	
		Release Created	Release 2.0 has been created for brand new app.	2017/10/20	~ ө	
		Application Created	Application brand new app has been created.	2017/10/20	✓ 6∂	
		Application Created	Application Test_Only_12 has been created.	2017/10/20	✓ 6∂	
		Scan Completed	Static Assessment scan has completed for Carena_Static Scan (17.4).	2017/10/19	✓ 69	
		Release Created	Release 17.4.1 has been created for Carena_Static Scan.	2017/10/19	✓ 60	
		Scan Canceled	Static Assessment scan has been cancelled for Carena_Static Scan (17.4).	2017/10/18	✓ 69	

- 2. To view a notification in greater detail, click the 😖 icon in the notification's action column. You are taken to the relevant application, release, or individual issue's page.
- 3. To mark a notification as read, click the \checkmark icon in the notification's action column. You can also filter the notification list and click **Mark as Read** to batch edit notifications.

The notifications are moved to Read Notifications and removed from the tally.

4. To view notifications that you have previously marked as read, select the **Read** tab.

The list of your read notifications appears.

My Notifications				
Unread 26 Read 3	_		Sear	rch Text Q
3 found			Display: 25 50 100	expand all collapse all
SELECT ALL	MESSAGE	DATE		Scan Canceled 2
Scan Completed	Mobile Assessment scan has completed for AUS_Shift (eNokia).	2017/10/20	60	Scan Completed 1 select all unselect all apply
Scan Canceled	Mobile Assessment scan has been cancelled for AUS_Shift (eNokia).	2017/10/20	69	
Scan Canceled	Mobile Assessment scan has been cancelled for AUS_Shift (eNokia).	2017/10/20	69	

Creating an Individual Subscription

In addition to receiving global notifications, you can create your own subscriptions to receive notifications triggered by your specified criteria.

To create an individual subscription:

 Click the ² icon on the portal toolbar. The Notifications page appears.

2. Click Subscriptions.

A list of your individual subscriptions appears.

	My Subscriptions				
	My Subscriptions 1 Global Subscriptions 3			Search Text	
-	1 found				Display: 25 50 100
	TRIGGER	SCOPE	SEND EMAILS	NOTE	
	Report Generated	All Applications			ଜେ 🧷 🖻

3. Click +New Subscriptions.

The Create Subscription modal window opens.

Create Subscription				×
Options Summary	Trigger (Choose One) Scope All Applications Note			•
	Send Emails Send to Slack		No No	
		BACK	NEXT	

4. Complete the fields. Fields are required unless otherwise noted.

Field	Description
Trigger	Select the trigger type from the list
Scope	Select the scope to which the trigger will apply from the list: All Applications (default), Application , Application Type , Application Attribute , and Business Criticality .
Note	(Optional) Type a note for the subscription.

Send	(Optional) Move the slider from No to Yes to enable sending email notifications.
Emails	This option is only available for non-issue related notifications.
Send to Slack	(Optional) Move the slider from No to Yes to post notifications to Slack. This option is only available if Slack integration has been configured and is limited to Security Leads.

5. Click **Next**.

If you selected a scope other than **All Applications**, the Scope page appears. Otherwise, skip to step 7.

- 6. Select the scope value and click **Next**.
- 7. Review the notification trigger settings and click **Save**.

The new subscription appears in your list of individual subscriptions.

Creating a Global Subscription

Security Leads can create tenant level global subscriptions for all users, specific roles, or specific groups.

To create a global subscription:

1. Click the 🙋 icon on the portal toolbar.

The Notifications page appears.

2. Click **Subscriptions**.

A list of your individual subscriptions appears.

	My Subscriptions									
₽ ₽	My Subscriptions 1 Global Subscriptions 3	Search Text								
	1 found			Display: 25 50 100						
	TRIGGER	SCOPE	SEND EMAILS	NOTE						
	Report Generated	All Applications			60 / 🗇					

3. Select the **Global Subscriptions** tab.

A list of global subscriptions, including system-default global subscriptions, appears.

	My Subscriptions								
	My Subscriptions 1 Glob	al Subscriptions 3)			Search Text	Q + NEW	SUBSCRIPTION	
	3 found Display. 25								
	TRIGGER	SCOPE	SEND EMAILS	CREATED BY	RECIPIENT		NOTE		
	Scan Resumed	All Applications		DELETED, DELETED (deleted_user4028)	Test		Default System Notification for Scan R	ରେ 🧷 🖻	
	Payload Has No Source Files	All Applications		DELETED, DELETED (deleted_user4028)	Everyone		Default System Notification for Payloa	ଜେ 🧷 🖻	

4. Click +New Subscription.

ate Subscriptior	1			
	Trigger			
Options	(Choose One)			
Summary	Recipient			
	Everyone			
	Scope			
	All Applications			
	Note			
	Send Emails		No	
	Send to Slack		No	
		BACK	NEXT	

The Create Subscription modal window opens.

5. Complete the fields. Fields are required unless otherwise noted.

Field	Description
Trigger	Select the trigger type from the list
Recipient	Select the subscription audience from the list: Everyone (default), Group , and Role . If you select Group or Role , select a specific group or role, respectively.
	Note: Recipients are limited to users who have access to the application referenced in a notification.
Scope	Select the scope to which the trigger will apply from the list: All Applications (default), Application , Application Type , Application Attribute , and Business Criticality .
Note	(Optional) Type a note for the subscription.
Send Emails	(Optional) Move the slider from No to Yes to enable sending email notifications. Scan Canceled and Scan Paused triggers have Send Emails permanently enabled. This option is available for non-issue related notifications.
Send to	(Optional) Move the slider from No to Yes to post notifications to Slack. This

Slack	option is available if Slack integration has been configured and is limited to
	Security Leads.

6. Click Next.

If you selected a scope other than **All Applications**, the Scope page appears. Otherwise, skip to step 8.

- 7. Select the scope value and click **Next**.
- 8. Review the notification trigger settings and click **Save**.

The new subscription appears in the list of global subscriptions.

Editing a Subscription

You can edit custom subscriptions. If you are a Security Lead, you can also edit global subscriptions.

To edit subscriptions:

 Click the ²⁹/₄ icon on the portal toolbar. The Notifications page appears.

2. Click Subscriptions.

A list of your custom subscriptions appears.

\equiv	My Subscriptions									
₽ ₽	My Subscriptions 1 Global Subscriptions 3	Q								
-	1 found					Display: 25 50 100				
	TRIGGER	SCOPE	SEND EMAILS	NOTE						
	Report Generated	All Applications				G / 🖻				

- 3. If you are editing a custom subscription, remain on the **My Subscriptions** tab. If you are a Security Lead who is editing a global subscription, select the **Global Subscriptions** tab.
- 4. Click the 🖉 icon next to the subscription you want to edit.

The Edit Subscription window appears.

it Subscription		
	Trigger	
Options	Payload Has No Source Files	~
Summary	Recipient	
	Everyone	~
	Scope	
	All Applications	~
	Note	
	Default System Notification for Payload Has No Source Files	
	Send Emails No	
	Send to Slack No	
	BACK NEXT	

5. Edit the fields as needed. For information on the fields, see "Creating an Individual Subscription" on page 30 and "Creating a Global Subscription" on page 32.

Your subscription changes are saved.

Deleting a Subscription

You can delete individual subscriptions that you created. Security Leads can delete all global subscriptions, including system default global subscriptions.

To delete a subscription:

1. Click the 🙋 icon on the portal toolbar.

The Notifications page appears.

2. Click Subscriptions.

A list of your individual subscriptions appears.

	My Subscriptions							
	My Subscriptions 3 Global Subscriptions 3			Search Text				
цф	1 found				Display: 25 50 100			
	TRIGGER	SCOPE	SEND EMAILS	NOTE				
	Report Generated	All Applications			ଜେ 🧷 🖻			

3. If you are deleting an individual subscription, stay on the **My Subscriptions** tab. If you are deleting a global subscription, select the **Global Subscriptions** tab.

- Click the in icon next to the subscription you want to delete.
 A confirmation message appears.
- Click **Yes** to confirm the deletion.
 The subscription is removed from the list of subscriptions.

Chapter 3: Managing Applications and Releases

Security assessment results are organized according to applications and associated releases in Fortify on Demand. Users can manage applications and releases in the portal.

This section contains the following topics:

Structuring Applications and Releases	
Managing an Application	
Managing a Release	
Viewing Applications in the Tenant	68
Viewing Releases in the Tenant	74
Searching Applications and Releases	
Creating Deep Links	

Structuring Applications and Releases

Fortify on Demand defines an application and release for the purpose of security assessments.

Application Definition

An application is a codebase. It serves as a top-level container for one or more releases.

Fortify on Demand defines an application in the following contexts:

For static assessments, an application is defined as a deployable unit of code consisting of a collection of source and/or byte code instruction files that:

- Can deliver some or all of the functionality of a business application
- Is written in the same technology family
- Is built on a single platform
- Does not include any loosely coupled components
- Can be configured to run on an application server (e.g., a Web Application Archive [WAR] or Enterprise Archive [EAR] file for a Java application or a solution in team foundation server for a .NET application)

A microservice as a small, modular service that runs as an independent, loosely coupled process and communicates through a well-defined, lightweight mechanism to serve a single function of a business application. For an application using a microservices architecture, a Static Subscription entitles a

customer to test up to 10 microservices that form some or all of the application. Each microservice must be packaged and submitted as a single ZIP file of 100 MB or less. For all other static assessment services, each microservice is considered a separate application.

The following conditions apply to microservice applications:

- Supported technology stacks are: .NET, .NET Core, C/C++, Go, JAVA/J2EE, JS/TS/HTML, PHP, Python, Scala, and Ruby.
- Static scans submitted for multiple microservices are placed in a queue and will be scanned in the order in which they were queued.
- Third party libraries are always excluded when scanning microservices.

For dynamic assessments, an application is defined as a fully qualified domain name (FQDN). For example, for www.microfocus.com:

- www.microfocus.com is the FQDN and is the application.
- www.microfocus.com/news/ is the same hostname and hence the same FQDN and so is the same application.
- community.microfocus.com is a different subdomain and hence a different FQDN and so is a different application.
- www.microfocus.co.uk is a different domain name and hence a different FQDN and so is a different application.

The application can only have a single authentication management system with the following exceptions:

- Forms authentication and single network authentication (basic/digest/NTLM) is allowed.
- Forms authentication, single network authentication and application generated authentication such as bearer tokens is allowed.

User logins may not be "daisy chained". For example, two forms authentication mechanisms are not permitted.

For web API applications only, the customer must provide a definition of the API endpoints:

- Dynamic Assessments
 - REST API OpenAPI JSON specification or Postman collection with valid values for all parameters and a hard coded and long-lived authentication token
- Dynamic+ Assessments
 - REST API OpenAPI JSON specification or Postman collection
 - SOAP single SOAP WSDL file

Working examples, with valid values for all parameters, must be provided.

For mobile assessments, an application is a single installable application for a single hardware platform. Mobile applications submitted for testing must be in the form of a compiled IPA (iOS) or APK (Android).

Release Definition

A release is a particular iteration of a codebase. In Fortify on Demand, release versioning provides a useful way to differentiate and track scan activity. You can structure releases depending on your organization's reporting needs and development processes.

The following examples show how releases can be structured:

- Static assessments:
 - Create one main release, copied from an initial baseline release, for automated scans on builds from a continuous integration build server . Periodically, create branch releases for scenarios such as major deployments of code (using copy state), more detailed analysis (including 3rd party libraries and/or choosing manual audit for a baseline, or sandbox releases to do a one-time scan without affecting metrics.
 - Create a new release for every major product release (using copy state) and run scans during a release cycle before moving to the next release.
 - Create a release for every build. Fortify does not recommend this approach due to the lack of trending and increased overhead.
- Dynamic assessments:
 - Create a single release, based on the environment being scanned (development, staging, UAT, or production), for all scans. The release is usually named by the URL.
 - Create a new release for each major deployment (using copy state).
- Static plus dynamic assessments:
 - Implement the above examples by themselves or in combination. For example, you can implement the first static assessment example as the main approach, and either run dynamic scans against the main and major release branches or run dynamic scans against a separate release that is independent of static scans.
- Mobile assessments:
 - For assessments of only the mobile binary, implement the static assessment examples.
 - For assessments that include backend web services, implement the dynamic assessment examples.

In addition, you can assign different Software Development Life Cycle (SDLC) stages to a release to track it as it progresses through the SDLC. Fortify on Demand uses the following SDLC stages:

- Development
- QA/Test
- Production
- Retired

Note: New scans cannot be started for a retired release. If a release is retired while a scan is in progress, the scan will still finish.

Managing an Application

You can create, view, and edit applications, depending on your user permissions.

This section covers the following topics:

Creating an Application	40
Viewing Application Details	47
Editing Application Settings	50
Managing User Assignment to an Application	52
Viewing the Application Event Log	54
Deleting an Application	55

Creating an Application

Before you can start the initial security assessment of an application, you need to create a new application in Fortify on Demand.

To create an application:

1. Select the **Applications** view.

Your Applications page appears.

2. Click +New Application.

The Create Application wizard appears.

3. In the **Application Details** page, define the application. Fields are required, unless otherwise noted.

eate Application		>
	Application Name	
Application Details		
Release Details		
Application Attributes	Business Criticality	
User Groups	(Choose One)	~
Summary	Application Type	
	(Choose One)	~
	Description	
	Email Notifications	
	Separate multiple email addresses with a semicolon or comma	

Field	Description
Application Name	Type the name of your application.
Business	Select the application's level of importance:
Criticality	• High : Security issues could have catastrophic consequences for the business.
	• Medium : Security issues would have non-trivial consequences, but ones which do not pose a life-or-death threat to the business.
	• Low: Security issues can be ignored or addressed gradually as time permits
Description	(Optional) Type a description of the application that will help you manage multiple applications.
Email Notifications	(Optional) List the email addresses that will receive email notifications of scan status updates for the application. Separate multiple email addresses

Field	Description
	with a semicolon or comma.
Application Type	Select the application type: Web / Thick-Client or Mobile .
Microservice Application	Create a Help Center ticket to have the feature enabled. (Web / Thick-Client applications only) Select the check box to scan the application as a microservice application.
	Important! The designation of a microservice application is permanent and cannot be changed after the application has been created.

5. (Microservice applications only) In the **Microservices** page, type the name of a microservice in the text box and click +.

The microservice is added below. You can add up to 10 microservices.

Note: You can also add microservices to an application after it has been created.

reate Application			×
	Microservices		
 Application Details 			+
Microservices	Define one or more microservices for this application (limit 3).		
Release Details			
Application Attributes			
User Groups			
Summary			
	BACK	NEXT	

7. (Microservice applications only) If microservice attributes have been configured, specify the microservice attributes. Click **Next** to do this for each microservice you added earlier.

Create Application		×
 ✓ Application Details ✓ Microservices 	Microservice Property	
M1		
Release Details Application Attributes User Groups Summary		
	BACK NEXT	

8. Click **Next**.

9. In the **Release Details** page, define a release of the application. The release represents a iteration of your application that will be tested. Fields are required, unless otherwise noted.

Create Application		×
✓ Application Details	Release Name	
✓ Microservices		
Release Details	SDLC Status	~
Application Attributes	(Choose One)	
User Groups	Microservice	
Summary	(Choose One)	~
	Owner	
	Huang, Yeu-Li	~
]
	Description	
	BACK NEXT	SAVE

Field	Description
Release Name	Type the name of your release.
SDLC Status	Select the Software Development Lifecycle from the list. The Retired option is not available.
Microservice (microservice applications only)	Select the microservice that will be linked to the release from the drop down list. A release must be linked to a microservice.
Owner	Select the owner from of the release. The owner will receive email notifications of scan status updates for the release.
Description	(Optional Type a description that helps describe the release.

11. If custom application attributes are configured for the tenant, in the **Application Attributes** page, specify the application attributes.

eate Application				×
	External			
 Application Details 	(Choose One)			~
 Microservices 				
 Release Details 	Region			
Application Attributes	(Choose One)			~
User Groups				
Summary				
Summary				
		DACK		
		BACK	NEXT	

13. If user groups have been configured for your tenant, in the **User Groups** page, select the groups that have access to the application. You can use the search box to search group names.

Create Application			×
✓ Application Details	Select groups that should have access to this app	ication.	
 Microservices 	Search		
✓ Release Details	GROUP NAME	ASSIGNED US	ERS
 Application Attributes User Groups 	Lead Developer	0	
Summary			
		BACK NEX	T SAVE

15. In the **Summary** page, review the application settings.

Create Application			×
	Application Details	Release Details	
 Application Details 	Application Name	Release Name	
 Microservices 	Microservice App	v1	
✓ Release Details	Business Criticality	SDLC Status	
 Application Attributes 	Low	Development	
✓ User Groups	Application Description	Microservice	
 Oser Groups 	(none)	M1	
Summary	Application Type	Owner	
	Web / Thick-Client	Huang, Yeu-Li	
	Microservice Application	Release Description	
	Yes	(none)	
	Email Notifications		
	(none)		
	Application Attributes	User Groups	
	Region	Selected Groups	
	Americas	(none)	
		BACK NEXT	SAVE

16. Click Create Application.

You are redirected to the Overview page of your new application's release.

Viewing Application Details

The Application Overview page displays an overview of the application and its releases. It serves as a dashboard for the application, offering a quick yet comprehensive snapshot of the application's production security risk. Here you can filter the application's releases, search for particular releases, create new releases, and start scans.

To view details of an application:

1. Select the **Applications** view.

Your Applications page appears.

2. Click the name of the application that you want to view.

The Application Overview page appears. The page shows the following details about an application: production risk and policy compliance, security status, and a list of associated

≡	Web	Goat (.NET)											
	Polic	y Compliance		Issues In Production									
\oplus		*****	7	CRITICAL		HIGH			MEDIUM			LOW	
Ø		FAIL view		135		151			11			74	
€													
3	Rele	eases							Search Text		۹	+ NEW RELEAS	E 7
PDF	1 fou	ind										Display: 25	50 100
£53	SELEC	CT ALL											
2~		START SCAN	RELEASE	COPY STATE SOURCE RELEASE	SDLC STATUS	POLICY COMPLIANCE		# ISS	UES		STATIC	OPEN SOURCE	DYNAMIC
ß		START SCAN ▷	5.4		Production	FAIL	CRITICAL	HIGH 151	MEDIUM	LOW	\oslash	\ominus	\otimes

releases (sorted from the latest to the earliest last completed scan date by default).

Navigating the Application Overview Page

Task	Action
View the security policy applied to the application	Click View in the Policy Compliance box.
View combined metrics across the application's production releases	The Policy Compliance and Issues in Production boxes display the combined star rating and number of issues (including Application Monitoring issues) across an application's production releases .
View the application's security status	The Security Status box displays the Continuous Application Monitoring status.
Search the application's releases	Enter search word in the text box.
Create a release	Click + New Release.
Start a scan	Click Start Scan next to a release and select the scan type. The button is disabled for releases with the Retired SDLC status.
View additional release details	Click the release name.

The following table describes how to navigate the Application Overview page.

Task	Action				
View data composing part of a graph	Click a section of the graph.				
View the most recent scan status for a release	 Hover over the relevant status icon. Click it to directly access the scan status details. STATIC DYNAMIC Scheduled scans display the scheduled start date. Scheduled scans display the scheduled start date. The completion date calculation is based on the start date + SLO of the chosen assessment type + pause time + weekends. In the event that a scan is past the SLO, the expected completion date displays "Long running scan on < release>. Contact us for details." 				
Expand or collapse filters	Click expand all I collapse all (a) or the arrow next to the filter name.				
Hide or display the filter list	Click ▼.				
Remove applied filters	Click X or click X Clear Filters .				

Filtering the Application Overview page

By default, the Application Overview page displays all results . You can customize the data displayed by applying filters.

Note: A filter only appears in the filter list when the results contain multiple values for that filter.

To filter the Application Overview page:

- 1. Click **T** to display the filter list if it is not currently displayed.
- 2. Expand the filters you want to apply.
- 3. Select the filter values. The following table describes the Application Overview filters.

F	Filter	Description	Values
	Dynamic Scan	Status of dynamic	Completed, Canceled, In Progress, Not Started

Filter	Description	Values
Status	scans	
Mobile Scan Status	Status of mobile scan	Completed, Canceled, In Progress, Not Started
Pass/Fail	User-defined Pass/Fail rating	Fail, Pass
Release Created Date	Date of release creation	
Scan Type	Type of scan	Static, Dynamic, Mobile, Network, Application Monitoring, Open Source
SDLC status	SDLC status of releases	Development, QA/Test, Production, Retired
Star Rating	5-star rating system	1, 2, 3, 4, 5
Static Scan Status	Status of static scans	Completed, Canceled, In Progress, Not Started

The page automatically refreshes with your filtered results. Applied filters are shown at the top of the page.

Editing Application Settings

You can edit application settings after the application has been created.

To edit application settings:

1. Select the **Applications** view.

Your Applications page appears.

- 2. Click the name of the application that you want to edit.
- 3. Click **Settings**.

The Settings page appears.

\equiv	WebGoat (.NET)		
	Application Summary	SAVE	X DELETE APPLICATION
⊕ ⊘	Application Summary Application Attributes Bug Tracker Source Control		
Ø	Application Name Additiv	onal Emails	
€	WebGoat (.NET)		
U	Business Criticality		
PDF	High		
	Application Type		
<u>نې</u>	Web / Thick-Client		
2~	Application Description		
[≞]	Auto generated		
	Separa	te multiple email addresses with a semicolon or comma	

- 4. Select the tab that corresponds to the application settings you want to edit.
 - The Application Summary tab displays application details.

Field	Description
Application Name	Name of your application
Business Criticality	Business Criticality level
Application Type	Application type (not editable for microservice applications)
Application Description	(Optional) Description of the application that will help you manage multiple application
Additional Emails	(Optional) Email addresses that will receive notifications of activity related to the application

• (Microservice applications only) The **Microservices** tab displays existing microservices. You can add, edit, or delete microservices, as well as edit microservice attribute values.

Note: You cannot delete a microservice that is tied to a release.

=	Microservice Appl	ication 2					
Ð	Application Su	ummary				[
⊕ ⊘	Application Summary	Microservices	Application Attributes	Bug Tracker	Source Control		+ ADD
A					MICROSERVICE NAME		
	M1						EDIT
S S	M2						EDIT
<u>۴</u>	M3						EDIT
50 50	M4						EDIT DELETE

• The **Application Attributes** tab displays system attributes as well as custom attributes.

\equiv	WebGoat (.NET)		
	Application Summary		SAVE X DELETE APPLICATION
⊕ ⊘	Application Summary Application Attributes Bug Tracker Source Control		
	Region	ImpactTest	
€	(Choose One)	✓ (Choose One)	*
5			

- The **Bug Tracker** tab displays configuration settings for bug tracker integration. For more information, see "Bug Tracker Integration" on page 343.
- The **Source Control** tab displays configuration settings for source control integration. For more information, see "Source Control Integration" on page 357.
- 5. Edit the application settings as desired.
- 6. Click **Save**.

The application settings are saved.

Managing User Assignment to an Application

Users with the **Manage Users** permission can manage user access to an application at the application level.

Note: Security Leads have access to all applications and cannot be removed.

To manage user access to an application:

1. Select the **Applications** view.

Your Applications page appears.

2. Click the name of application for which you want to edit user access.

The Application Releases page appears.

3. Click Access.

The Users with Application Access page appears, displaying the list of users with access to the application.

\equiv	WebGoat (.NET)							
	Users with Application Acc	ess			Search Text	۹	EDIT USERS	EDIT GROUPS
۲	2 found						Dist	olay: 25 50 100
0		FIRST NAME	EMAIL		ROLE		ACCESS MET	
Ð	Huang	Yeu	yeuh@fod.com	Security Lead		Role		
\mathbb{O}	Smith	James	james@fod.com	Application Lea	d	Application		
PDF								
÷								
2~								

4. Click Edit Users.

The Assign Users window appears.

5. You can perform the following tasks:

Task	Procedure
Assign users to	 a. Click Edit Users.
application	The Assign Users window appears. b. Select the Available tab. Assign Users
Remove users from	 a. Click Edit Users.
application	The Assign Users window appears. b. Select the Selected tab. Assign Users ***********************************

Task	Procedure
	 Clear the check box next to individual users.
	 Clear the ASSIGN check box to remove displayed users.
	 Select the Unassign All Tenant Users check box to remove all users.
	You can use the search field to filter the application list.

6. Click Save.

The changes to the application's assigned users are saved.

Related Topics:

To manage user access to applications at the user level, see "Managing Application Assignment to a User" on page 283.

Viewing the Application Event Log

Users with the **Manage Applications** permission can view an application's event log. An application's event log logs all event related to the application:

- application creation, updates, and deletion
- release creation, updates, and deletion
- addition and removal of user and group access to the application
- scan initiation, updates, and completion
- entitlement consumption
- report creation, publication, download, and deletion
- FPR downloads
- data exports
- advanced audit settings creation, updates, and deletion

To view an application's event log:

1. Select the **Applications** view.

Your Applications page appears.

- 2. Click the name of the application for which you want to view the event log.
- 3. Click Event Log.

The Event Log page appears.

\equiv	WebGoat (.NET)					
(} ⊕	Event Log [®]				Search Text	Q EXPORT Y
¢	EVENT DATE FROM: 202	2/11/28 EVE	NT DATE TO: 2	022/11/29		expand all collapse all
€	2 found			Display	a 25 50 100	From:
$\overline{\mathbb{O}}$	EVENT DATE	TYPE	USER	NOTES		To:
PDF	2022/11/29 07:27:09 PM	Project Updated	HuangTam	ApplicationName = "WebGoat (NET)", ApplicationType = "Web/Thick-Client", ApplicationBusinessCriticality = ApplicationRedirectUri = "https://fodqa9-tenant.fortifyfodqa9.local/redirect/Applications/4521", Origin = "Web		
£03	2022/11/29 07:26:43 PM	Project Updated	HuangTam	ApplicationName = "WebGoat (NET)", ApplicationType = "Web/Thick-Client", ApplicationBusinessCriticality = ApplicationRedirectUri = "https://fodqa9-tenant.fortifyfodqa9.local/redirect/Applications/4521", Origin = "Web		
2~						

4. You can perform the following tasks:

Task	Action			
Export the event log of the last 13 months	Click Export . A .csv file is saved locally to the folder specified in your browser settings.			
Search the event log	Type a keyword or phrase in the search text field and click Enter .			
Hide or display the filter list	Click ▼.			
Expand or collapse filters	Click expand all collapse all () or the arrow next to the filter name.			
Remove applied filters	Click X or click Clear Filters at the top of the page. The filter is set to the last 24 hours by default.			

Related Topics

For information about viewing all events that occur in your portal, see "Viewing the Administration Event Log" on page 268.

Deleting an Application

Deleting an application removes all data associated with the application and cannot be undone. Application data is purged from Fortify on Demand after 72 hours. If an application was deleted in error, contact support within 72 hours of deleting the application.

Note: If you need to reuse the name of a deleted application, wait 72 hours after deleting the application before creating a new one.

To delete an application:

1. Select the **Applications** view.

Your Applications page appears.

- 2. Click the application that you want to delete.
- 3. Click **Settings**.

The **Application Summary** page appears.

\equiv	WebGoat (.NET)		
٨	Application Summary		ATION
⊕ ⊘	Application Summary Application Attributes Bug Tracker Source Control		
Ø	Application Name Additional Emails		
€	WebGost (NET)		
5	Business Criticality		
PDF	High		
	Application Type		
<u>نې</u>	Web / Thick-Client		
2~	Application Description		
	Auto generated		
	Separate multiple email addresses v	ith a semicolon or comma	

- Click X Delete Application .
 A confirmation message appears.
- Click **Yes** to delete the application.
 You are returned to Your Applications page.

Managing a Release

You can create, view, and edit releases, depending on your user permissions.

This section covers the following topics:

Creating a Release	56
Viewing Release Details	58
Overriding the Security Policy of a Release	65
Editing Release Settings	66
Deleting a Release	67

Creating a Release

You can create a new release of an existing application. When creating a new release, you have the option to start fresh or carry over vulnerabilities and other details from a previous release.

To create a new release:

1. Select the **Applications** view.

Your Applications page appears.

2. Click the application for which you want to create a new release.

3. Click + New Release.

The Create Release wizard appears.

Create a Release	×
Release Details	
Release Name	
Release Description	
SDLC Status (Choose One)	~
Copy State from Existing Release	
	NEXT

4. In the **Release Details** page, complete the fields as needed. Fields are required, unless otherwise noted:

Field	Description
Release Name	Type the name of your release.
Release Description	(Optional) Type a description that helps describe the release.
SDLC Status	Select the Software Development Life Cycle stage of the release: Development , QA/Test , Production . The Retired option is not available.
Microservice (microservice applications only)	Select the microservice that will be linked to the release from the drop down list. A release must be linked to a microservice; a microservice can be linked to multiple releases.
Copy State from Existing Release (enabled by default)	(Optional) Select Copy State from Existing Release to carry over data from a previous release to the new one. The following data is copied: release owner, scan settings for all scan types, star rating, issue counts, and issue details (including issue history, bug tracker links, and attached screenshots).

Field	Description
Release Name	Type the name of your release.
	Note: Fix validated issues are not copied. Data from paused and in-progress scans, including scan settings, are not copied. Only data from completed and imported scans are copied.

5. If you selected **Copy State from Existing Release**, click **Next**. Otherwise, skip to step 7.

Create a Release						×
Copy State from Existing Release	Se	arch Text			c	x ×
1 found			Display:	25	50	100
RELEASE NAME		SDLC	STATUS			
5.4	Production					
Retire Selected Release						
			BACK			

- 6. In the **Copy State from Existing Release** page, select the release that you want to carry over the vulnerabilities and other details from the list.
- 7. Click Save.

You are redirected to the Overview page of the new release.

Note: If you selected to copy data from a previous release, the copy release data process can slow the screen refresh, so you might not see the Overview page immediately.

Viewing Release Details

The Release Overview page displays an overview of the release. It serves as a dashboard for the release, offering a quick yet comprehensive snapshot of the release's security risk. Through a series of easy-to-read visuals, you can see all the key metrics of your release. Many of the visual elements are clickable so that you can drill down into the data sets displayed.

To view details of a release:

1. Select the **Applications** view.

Your Applications page appears.

- 2. Click Your Releases.
 - Your Releases page appears.
- 3. Click the name of the release that you want to view.

The Release Overview page appears.

\equiv	WebGoat (.NET) > 5.4							
	Release Details						SHOW -	START SCAN 🔻
\oplus								
Ø	Policy Compliance	Issues				Scan Status		
	***	CRITICAL	HIGH	MEDIUM	LOW	STATIC	OPEN SOURCE	DYNAMIC
	FAIL	135	151	11	74	\bigcirc	Θ	\otimes
	VIEW EDIT					COMPLETED	NOT STARTED	CANCELED
PDF	Recommendations Analysis	Smart Fix						
ŝŝ	Recommended Issue							
	286 issues require remedia	tion and verification						
	284 unassigned 284 open							
	2 in remediation							
	286 pending auditor review							
	Application monitoring is re	equired by your security po	licy for this application					
	Trending						Group By	
							Severity	~
	175						Critical	
							High	
							Medium	
	150 0-0-0-0-0-0-0		-0000		-0000	<u> </u>	Low	

The top section of the Release Overview page summarizes all scan results for the release. The Policy Compliance box shows the Star Rating and Pass/Fail status. The Issues box shows the number of vulnerabilities at each severity level. The Scan Status box shows the most recent scan statuses for the release.

The tabs display several analyses of the scan results, with links to drill down into issues

Navigating the Release Overview Page

The following table describes how to navigate the Release Overview page.

Task	Action
View the copy state source (if applicable)	Click the link below the release name. UAT_test > UATv1_v2_CopyST Release Details Copied from "UATv1"
Show or hide fixed issues	Click Show Fixed to switch between showing and hiding Fix Validated issues.
Show or hide suppressed issues	Click Show Suppressed to switch between showing or hiding Suppressed issues.
Start a scan	Click Start Scan and select the scan type from the list. The button is disabled for releases with SDLC status of Retired .

Task	Action			
View the most recent scan status for the	Hover over the relevant status icon. Click it to directly access the scan status details.			
release	STATIC DYNAMIC			
	\odot			
	• Scheduled scans display the scheduled start date.			
	• The completion date calculation is based on the start date + SLO of the chosen assessment type + pause time + weekends. In the event that a scan is past the SLO, the expected completion date displays "Long running scan on <release>. Contact us for details."</release>			
View the security policy applied to the parent application	Click View in the Policy Compliance box.			
Override the policy compliance	Click Edit in the Policy Compliance box.			
View an analysis of scan results	Select a tab below the overview boxes. For more information, see "Release Overview Graphs" below			
View issues filtered by issue severity or scan type	Click the links in the Issue and Scan Status boxes.			

Release Overview Graphs

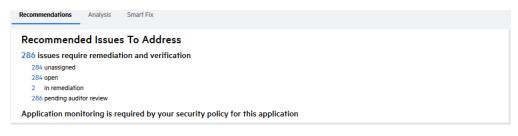
The tabs on the Release Overview page display visual representations of the scan results, with links to drill down into issues

- "Recommendations" on the next page
- "Analysis" on page 62
- "Smart Fix (static scans)" on page 63
- "App Information (mobile scans)" on page 64
- "Reputation (mobile scans)" on page 64

Note: Showing fixed and suppressed issues increases the vulnerabilities in the count. The updated count is also represented in the vulnerability graphs.

Recommendations

The **Recommended Issues To Address** section lists why the release is failing the security policy. If specific issues are causing the release to fail, you can drill directly into those issues. If your policy requires a minimum scan frequency, that information is displayed here as well. Releases that are passing and do not have scan frequency requirements do not have this section.



The **Trending** section displays a line graph of the release's vulnerability trends over time, measured in terms of the selected facet. Hover over a data point to view the count and type. Click a label to switch between showing or hiding that data set.



Facet	Description			
Auditor Status	Auditor status of issues			

Facet	Description
Developer Status	Developer status of issues
Is Assigned	Assignment status of issues: False , True
Issue Status	Issue status: New, Existing, Reopen, and Fixed
Issue Suppressed	Suppression status of issues: False, True
Kingdom	Seven Pernicious Kingdoms classification
Severity	lssue severity: Critical, High, Medium, Low
OWASP 2017	OWASP Top 10 2017 classification
OWASP 2021	OWASP Top 10 2021 classification
OWASP ASVS 4.0	OWASP ASVS 4.0 classification
GDPR	GDPR classification from Fortify Software Security Research (SSR)
PCI 3.2	PCI 3.2 classification
PCI40	PCI 4.0 classification
PCISSF12	PCI SSF version 1.2
STIG52	DISA STIG 1.2 classification
FISMA	FISMA classification
Is Closed	Resolution status of issues: False, True
OWASP Mobile Top 10	OWASP Mobile Top 10 classification
Scan Type	Issue scan type: Static, Dynamic, Mobile

Analysis

The **Analysis** tab displays a bar graph of the release's vulnerabilities divided into groups. The categories displayed depend on the Aggregation facet selected: **Assignment**, **Auditor status**, **Category**, **Developer Status**, **Scan Type**, and **OWASP 13**.

Drill down into a group by clicking any of the bars in the graph. For example, if you click the **Privacy Violation** bar in the **Category** facet, you are redirected to a filtered Issues page displaying privacy violation vulnerabilities.

Recommendation	Analysis Smart Fix			
Analysis				
Cross-Site Scripti	100% new (155 issues)	38% of Total (155 issues)	Group By	Category 🗸
Poor Error Handli	100% new (34 issues)			8% of Total (34 issues)
SQL Injection	100% new (33 issues)			8% of Total (33 issues)
Web Server Misco	100% new (22 issues)			5% of Total (22 issues)
Web Server Misco	100% new (21 issues)			5% of Total (21 issues)
Command Injection	100% (14 issues)			3% of Total (14 issues)
Privacy Violation:	100% (12 issues)			3% of Total (12 issues)
Log Forging	100%			3% of Total (11 issues)
Privacy Violation	100%			2% of Total (10 issues)
Web Server Misco	100%			2% of Total (9 issues)

Smart Fix (static scans)

The **Smart Fix** tab is available once a static scan has been performed. It displays an analysis trace diagram that visualizes node execution order across static issues in a vulnerability category and provides insight into shared data flows across those issues. This information can help identify optimal fix locations and remediation strategies.

ecommendations Analysis Smart	Fix				
Categories			Issue Count		
Cookie Security: Cookie not Sent Over	55L - 5	✓0			
	TOGGLE HEAT MAP	PRUNE	ET ZOOM TO FIT	FULLSCREEN	HELP
📅 Issue 237029 : Trace_	🗰 Issue 236994 : Trace	🗰 Issue 236989 : Trace	🗰 Issue 237076 : Trace	🗰 Issue 237073 : Trace	
ForgotPassword.as	A Default.aspx.cs:21	🙏 CustomerLogin.asp	ForgotPassword.as	HeaderInjection.asp	
RorgotPassword.asp	•() Default.aspx.cs:28	A CustomerLogin.asp	A ForgotPassword.asp	() HeaderInjection.aspx	
	•() ForgotPassword.as	•() CustomerLogin.aspx	e() ForgotPassword.as		
		\land CustomerLogin.asp			
e() ForgotPassword.as_	¢() Default.aspx.cs:29	e() CustomerLogin.aspx	e() ForgotPassword.as	() HeaderInjection.asp	

Select a vulnerability category in the **Categories** list to view its analysis trace diagram. You can interact with the diagram in the following ways:

- Scroll up and down to zoom in and out, respectively.
- Click a node to highlight shared paths.
- Click an issue icon to drill down into the issue.
- Manipulate the diagram using the toolbar commands:

- **Toggle Heat Map**: enables / disables highlighting of data flows
- **Prune** (available when a node is selected): narrows the diagram to the combined data flow of the selected issues
- **Reset**: resets the diagram to the default view of the selected issue category
- Zoom To Fit: resizes the entire diagram to fit in the display without resetting or pruning
- Full Screen: expands the diagram in full screen mode

App Information (mobile scans)

The **App Information** tab displays the following information about a mobile application's binary file: the platform, application name, identifier (package name), version, file size, minimum OS requirements, and device requirements.

PlatformIOSNameIGoatIdentifiercomswaroop.iGoatVersion30 (1)File Size Oxytes)102827Minimu OS Requirements9.0Device Requirementsarmv7	Recommendations	Analysis	Trending	App Information	Reputation	
Identifier com.swaroop.iGoat Version 30 (1) File Size (bytes) 1028827 Minimun OS Requirements 9.0	Platform					iOS
Version 30 (1) File Size (bytes) 1028827 Minimum OS Requirements 9.0	Name					iGoat
File Size (bytes) 11028827 Minimum OS Requirements 9.0	Identifier					com.swaroop.iGoat
Minimum OS Requirements 9,0	Version					3.0 (1)
	File Size (bytes)					11028827
Device Requirements armv7	Minimum OS Requirem	ents				9.0
	Device Requirements					armv7

Reputation (mobile scans)

Fortify on Demand's Mobile Reputation service performs a reputation analysis of traffic endpoints discovered while testing a mobile application. The **Reputation** tab displays the analysis results. It lists all identified hosts and whether each is in good standing. Mobile scan results also include dedicated vulnerabilities for identified hosts not in good standing.

Analysis	Trending	Reputation	
	HOST	IAME	GOOD STANDING
https://twitt	ter.com/		~
https://data	.flurry.com/		×
http://www.	apple.com/		~
http://api.tw	vitter.com/		~
https://m.fa	cebook.com/		~
http://api.lin	nkedin.com/		~
http://googl	le.co.uk/		~
https://www	/.linkedin.com/		~
https://api.t	witter.com/		~
http://adlog	.flurry.com/		~

Overriding the Security Policy of a Release

Security Leads can manually override the security policy of a release by setting the release as passing or failing. This capability allows you to better reflect real-world exceptions process in the portal without artificially suppressing issues. The justification for the exception is logged in the application's event log. The status of the release automatically reverts to the official security policy on the next scan.

To override the security policy of a release:

1. Select the **Applications** view.

Your Applications page appears.

2. Click the name of the application containing the release you want to edit.

The Application Overview page appears.

3. Click the name of the release for which you want to override the security policy.

The Release Overview page appears.

\equiv	WebGoat (.NET) > 5.4							
	Release Details						SHOW -	START SCAN 🔻
(Policy Compliance	lssues				Scan Status		
Ø	*☆☆☆☆	CRITICAL	HIGH	MEDIUM	LOW	STATIC	OPEN SOURCE	DYNAMIC
> ⊕	FAIL VIEW I EDIT	135	151	11	74	COMPLETED	O NOT STARTED	
₽ C#								
	Recommendations Analysis	Smart Fix						
τ <u>ο</u> τ	Recommended Issue	s To Address						
	286 issues require remediat	tion and verification						
	284 open							
	2 in remediation 286 pending auditor review							
	Application monitoring is required by your security policy for this application							
	Trending						Group By	
	J						Severity	~
	175						Critical	
							High Medium	
			-0000			- 0-0-0-0-	Medium Low	

4. Click **EDIT** in the Policy Compliance box.

The Compliance Override modal window appears.

5. Type the justification for changing the policy compliance results in the field.



6. Click Set to Pass or Set to Fail.

You are returned to the Release Overview page. Your policy override is displayed in the Policy Compliance box.

Related Topics:

- For information on Star Ratings, see "Five-Star Assessment Rating" on page 19.
- For information on managing security policies, see "Policy Management" on page 293.

Editing Release Settings

You can edit release settings after a release has been created.

To edit the release settings:

1. Select the **Applications** view.

Your Applications page appears.

2. Click **Your Releases**.

Your Releases page appears, displaying a list of your releases.

- 3. Select the release that you want to edit.
- 4. Click **Settings**.

The Release Summary page appears.

\equiv	WebGoat (.NET) > 5.4			
	Release Summary		SAVE	× DELETE RELEASE
•	Release Name	Release Description		
Ø	5.4	54		
	SDLC Status			
	Production			
PDF	Owner (Choose One)			
0				

Field	Description
Release Name	Name of the release
Microservice	(Microservice applications only) Name of the microservice linked to the release
SDLC Status	Software Development Lifecycle stage of the release
Owner	Owner of the release who receives email notifications of scan status updates to the release
Run Debricked Open Source Scan	(Available for tenants with Sonatype entitlements) Select the check box to switch the software composition analysis tool from Sonatype to Debricked. The setting cannot be reverted once it has been saved. The tenant must have active Debricked entitlements to successfully run Debricked scans after the switch.
	Note: If your tenant has inactive Sonatype entitlements and active Debricked entitlements, this option does not apply; open source are always powered by Debricked.
Release Description	(Optional) Description of the release that helps describe the release.

5. Edit the Release Summary page as desired. Fields are required unless noted otherwise.

6. Click **Save** to save your changes.

Deleting a Release

Users with the **Create Applications** permission can delete a release. Deleting a release removes all data associated with the release and cannot be undone. Release data is purged from Fortify on Demand after 72 hours. If a release was deleted in error, contact support within 72 hours of deleting the release.

Note: If you need to reuse the name of a deleted release, wait 72 hours after deleting the release before creating a new one.

To delete a release:

1. Select the **Applications** view.

Your Applications page appears.

2. Click **Your Releases**.

Your Releases page appears, displaying a list of your releases.

- 3. Click the release that you want to delete.
- 4. Click Settings.
- 5. Click **x Delete Release**.

\equiv	WebGoat (.NET) > 5.4			
	Release Summary		SAVE	\times delete release
۲	Release Name	Release Description		
Ø	5.4	5.4		
	SDLC Status			
	Production			
PDF	Owner			
	(Choose One)			
@				

6. Click Yes.

You are returned to the Release Overview page.

Viewing Applications in the Tenant

You can review the security status of multiple applications simultaneously. Your Applications page is the default landing page after logging in to Fortify on Demand. It displays a high-level overview of your applications in Fortify on Demand, with a focus on the risk and policy compliance of production releases.

To view Your Applications page:

1. Select the **Applications** view.

Your Applications page appears. The grid shows the following details about each application: application name, number of releases, business criticality, the combined star rating and number of issues across production releases, the most recent scan status across all releases, and the most recent risk-relevant change.

\equiv	You	r Applications							Search Text		Q + NEW APPLICATION
⊞ 	All 12 Microservice 0 Non-Microservice 12										
Õ	12 fo	und			1 2 → →				Display: 25 50	100	expand all collapse all
-	SELEC	TALL									∽ sort
\$		NAME		PRODUCTION RI	SK & POLICY COM	IPLIANCE 🚯		SCAN & SE	CURITY STATUS 🚯		Production Risk 🗸
		Jeopardy (PHP)	FAIL	CRITICAL	HIGH	MEDIUM	LOW	STATIC O	PEN SOURCE DYNAMIC	20	✓ APPLICATION TYPE
		2 RELEASES Business Criticality: HIGH		160	5	0	147	\boxtimes	Θ Θ	Re	Web / Thick-Client 10 Mobile 2
		WebGoat (.NET)	FAIL	CRITICAL	HIGH	MEDIUM	LOW	\sim	PEN SOURCE DYNAMIC		> BUSINESS CRITICALITY
		1 RELEASES Business Criticality: HIGH		135	151	11	74	\bigotimes	\ominus \otimes	no	> DYNAMIC SCAN STATUS
		OpenSSL (C Source)	FAIL	CRITICAL	HIGH	MEDIUM	LOW	0	PEN SOURCE DYNAMIC		> MOST RECENT CHANGE
		1 RELEASES Business Criticality: HIGH		64	156	0	0	\odot	Θ Θ	no	> PASS/FAIL
		iGoat Android (JAVA)	FAIL	CRITICAL	HIGH	MEDIUM	LOW	-	PEN SOURCE MOBILE		> SCAN TYPE > STAR RATING
		1 RELEASES Business Criticality: HIGH		43	122	18	15	\otimes	\ominus \bigotimes	no	> STATIC SCAN STATUS
		iGoat iOS (Objective-C)	FAIL	CRITICAL	HIGH	MEDIUM	LOW	STATIC O	PEN SOURCE MOBILE	20	apply all checked
		2 RELEASES Business Criticality: HIGH		14	54	2		\odot	Θ	Re	
		Zero Security (COBOL) 1 RELEASES Business Criticality: HIGH	FAIL	CRITICAL	HIGH	MEDIUM 0	LOW		PEN SOURCE DYNAMIC	 no	

Navigating Your Applications Page

The following table describes how to navigate Your Applications page.

Task	Action
Create an application	Click +New Application.
Search the application list	Type a keyword or phrase in the search text box and click Enter . To remove the search results, remove the text from the search box and click Enter or remove the applied filter. For information on using the search text box, see "Searching Applications and Releases" on page 78.
Hide or display filter lists	Click ▼.
Expand or collapse filters	Click expand all 1 collapse all (a) or the arrow next to the filter name.
Remove applied filters	Click X or click Clear Filters at the top of the page.
Filter applications by microservice designation	Select the desired tab.
	All 12 Microservice 0 Non-Microservice
Edit application attributes for multiple applications	 Select the check box next to individual applications or click select all to select all applications on the page. Click Edit Attributes.
	The Edit Attribute window opens.

Task	Action
Edit user groups for multiple applications	Edit Attributes (2 items) × Business Criticality • (Choose One) • ImpactTest • (Choose One) • SAVE CANCEL 3. Update the fields as needed. 4. Click Save. For more information on application attributes, see "Creating an Application" on page 40 1. Select the check box next to individual
Edit user groups for multiple applications	 Select the check box next to individual applications or click select all to select all applications on the page. Click Edit Groups. The Edit Groups window opens. Edit Groups (2 items) ② × Select groups that should have access to the selected application(s). Select groups that should have access to the selected application(s). Select groups that should have access to the selected application(s). Select groups that should have access to the selected application(s). Select groups that should have access to the selected application(s). Select developer OVERWRITE & SAVE CANCEL Select the groups that will be assigned to the applications.

Task	Action
	4. Click Append & Save to add the selected groups to the existing assigned groups, or click Overwrite & Save to replace the existing assigned groups with the selected groups (if no user groups are selected, all existing assigned groups are removed).
	Note: Users must have both Manage Applications and All Application Access permissions to use Overwrite & Save.
	For more information on groups, see "Groups" on page 286.
View details of an application	Click the application name.
View the security policy applied to an application	Click the star rating.
View combined metrics across an application's production releases	The Production Risk & Policy Compliance column displays the combined star rating and number of issues (including Application Monitoring issues) across an application's production releases.
View the most recent scan status across an application's releases	 Hover over the relevant status icon. Click it to directly access the scan status details. STATIC DYNAMIC MONITORING Scheduled scans display the scheduled start date. The expected completion date is calculated based on the scan start date + SLO of the chosen assessment type + pause time + weekends. In the event that a scan is past the SLO, the expected completion date displays "Long running scan. Contact us for details."

Task	Action
View the most recent risk-relevant change for an application.	The Most Recent Change column displays the most recent change from the following list:
	Risk profile updated
	Release created
	Release deployed to production
	New Application Monitoring vulnerabilities detected
	New dynamic vulnerabilities detected
	New static vulnerabilities detected
	New mobile vulnerabilities detected
	Business criticality updated
	Release passing security policy
	Release failing security policy

Filtering Your Applications Page

By default, Your Applications page displays all applications, which are sorted from top to bottom based on the following criteria:

- the group that the application belongs to, sorted by descending priority:
 - production: application with one or more production releases (sorted by Pass/Fail status, where failing > unassessed > passing)
 - pre-production: application with one or more dev/QA releases
 - retired: application with no production, dev, or QA releases
- within each group (production, pre-production, retired), the applications are sorted by business criticality (from high to low), followed by the number of issues by severity

You can limit the applications displayed as well as change the sort order by applying filters.

To filter Your Applications page:

- 1. Click **T** to display the filter list if it is not currently displayed.
- 2. If desired. select the sort order from the **Sort** list. The values are: **Production Risk** (default), **Most Recent Change**, **Application Name (A to Z)**, and **Application Name (Z to A)**.
- 3. Expand the filters that you want to apply. The following table describes the application filters.

Note: A filter only appears in the filter list when the results contain multiple values for that filter.

Filter	Description	Values
Application Monitoring	Application Monitoring status of an application	Enabled (No issues), Enabled (Issues found), Not Enabled
Application Type	The application type, selected during the application creation process	Mobile, Web/Thick-Client
Business Criticality	Business Criticality of an application	High, Medium, Low
Has Microservices	Whether the application has microservices	false, true
Dynamic Scan Status	Status of dynamic scans	Scheduled, In Progress, Completed, Canceled, Waiting
Mobile Scan Status	Status of mobile scans	Scheduled, In Progress, Completed, Canceled, Waiting
Most Recent Change	Category of the most recent change detected for an application	New Monitoring Vulnerabilities Detected, Release Passing Security Policy, Business Criticality Updated, Release Created, New Dynamic Vulnerabilities Detected, Release Failing Security Policy
Pass/Fail	User-defined Pass/Fail rating	Fail, Pass, Unassessed
Scan Type	Scan type	Static, Dynamic, Mobile, Open Source
Star Rating	5-star rating system	1, 2, 3, 4, 5
Static Scan Status	Status of static scans	In Progress, Completed, Canceled, Waiting
<custom Microservice</custom 	Values of picklist microservice	User-defined

Filter	Description	Values
Attribute>	attributes	

4. Select your desired filter values.

Your Applications page automatically refreshes with your filtered results. Applied filters are shown at the top of the page.

Viewing Releases in the Tenant

In addition to reviewing multiple applications at once, you can also review the details of individual releases across multiple applications simultaneously. Your Releases page displays a high-level overview of your releases in Fortify on Demand.

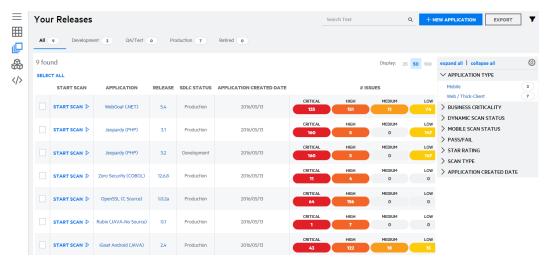
To view Your Releases page:

1. Select the **Applications** view.

Your Applications page appears.

2. Click Your Releases.

Your Releases page appears. The grid shows the following details about each release: application name, associated release name, number of issues found in the release, star rating, and current scan statuses.



3. Select the tabs to filter releases by their SDLC status. The default SDLC status is **All**, which displays all of your releases. You can change the default SDLC status in your account settings.

Navigating Your Releases Page

The following table describes how to navigate Your Releases page.

Task	Action		
Create an application	Click +New Application.		
Search the release list	Type a keyword or phrase in the search text box and click Enter . To remove the search results, remove the text from the search box and click Enter or remove the applied filter. For information, see "Searching Applications and Releases" on page 78.		
Export data as a .csv file	Click Export . A .csv file containing detailed information on all vulnerabilities is saved locally to a folder specified in your browser settings.		
	Note : The Export functionalities in the Tenant Dashboard, Your Releases, and Release Issues pages outputs the same column fields. Currently applied filters are also applied to the export.		
Change the grid columns	 Click . Use the check boxes to make your selections. Click Save. 		
Hide or display the filter list	Click ▼.		
Expand or collapse filters	Click expand all collapse all (collapse all) or the arrow next to the filter name.		
Remove applied filters	Click X or click Clear Filters at the top of the page.		
Filter releases by SDLC status	Select a tab corresponding to an SDLC status. The selected SDLC status is preserved when moving between views.		
Sort the release list by column	Click a column header. The arrow next to the header indicates the sort order of the data. To		

Task	Action	
	reverse the order, click the header again.	
Edit release attributes for multiple releases	 Select the check box next to individual releases or click select all to select all releases on the page. 	
	2. Click Edit Attributes .	
	The Edit Attribute window opens.	
	3. Update the fields as needed.	
	4. Click Save .	
	For more information on release attributes, see "Creating a Release" on page 56	
Start a scan	Click Start Scan and select the scan type.	
View additional details of an application or release	Click an application or release name.	
View the most recent scan status for a release	Hover over a status icon. Click it to directly access the scan status details.	
	STATIC DYNAMIC	
	\odot	
	• Scheduled scans display the scheduled start date.	
	 The completion date calculation is based on the start date + SLO of the chosen assessment type + pause time + weekends. In the event that a scan is past the SLO, the expected completion date displays "Long running scan on <release>. Contact us for details."</release> 	
View the security policy applied to a release's parent application	Click a star rating.	

Filtering Your Releases Page

By default, Your Releases page displays all of your releases. You can limit the releases displayed by applying filters.

To filter Your Releases page:

- 1. Click **T** to display the filter list if it is not currently displayed.
- 2. Expand the filters you want to apply. The following table describes the release filters.

Note: A filter only appears in the filter list when releases have multiple values for that filter.

Filter	Definition	Values	
Application Created Date	Date when the application was created.	< 7 days, < 30 days, < 90 days, < 180 days	
Application Type	The application type, selected during the application creation process	Mobile, Web/Thick-Client	
Business Criticality	Criticality of the applications	High, Medium, Low	
Dynamic Scan Status	Status of dynamic scans	Not Started, Canceled, Completed, In Progress, Waiting	
MicroserviceName	Microservice names	User-defined	
Mobile Scan Status	Status of mobile scans	Not Started, Canceled, Completed, In Progress, Waiting	
Pass/Fail	User-defined Pass/Fail rating	Fail, Pass	
Scan Type	Scan type	Static, Dynamic, Mobile	
SDLC Status	SDLC status of releases	Production, QA/Testm Development, Retired	
Star Rating	5-star rating system	1, 2, 3, 4, 5	
Static Scan Status	Status of static scans	In Progress, Completed, Canceled, Waiting	

3. Select your desired filter values.

Your Releases page automatically refreshes with your filtered results. Applied filters are shown at the top of the page.

Searching Applications and Releases

In addition to the top-level Search box that is available in the portal toolbar, you can also use the **Search Text** box available on each grid to search for application names, release names, keywords, and URLs within the display context of the grid.

Searching Text

To search for an application or release in a grid:

1. Type the string that you want to search for in the **Search Text** box.



You do not need to type the entire string in the box. For example, if you are searching for an application named *Test App 1*:

- If you type **Test** in the box, your search results **will** include *Test App 1*.
- If you type **Tes** in the box, your search results **will not** include *Test App 1*.
- If you type **Tes**^{*} in the box, your search results **will** include *Test App 1*.
- 2. Click Enter.
 - The page refreshes with your search results.
- 3. Click the name of the desired application or release. The page refreshes with the selected application or release page and clears the search box.

Removing the Search Results

To remove the applied search filter, perform one of the following:

- Remove the search string from the search box.
- Click the browser **Back** arrow.

Creating Deep Links

Fortify on Demand supports deep linking to applications, releases, scans, and issues.

To create deep links, use the following path formats:

- Applications: https://<fod_domain>/redirect/Applications/<application_id>
- Releases: https://<fod_domain>/redirect/Releases/<release_id>

- Scans: https://<fod_domain>/redirect/Scans/<scan_id>
- Issues: https://<fod_domain>.com/redirect/Issues/<issue_id>

Note: The top of the issue details panel displays the issue ID. 236127 http://zero.webappsecurity.com:80/forg

where *<fod_domain>* is the Fortify on Demand data center domain:

- US:ams.fortify.com
- EMEA: emea.fortify.com
- APAC:apac.fortify.com
- FedRAMP:fed.fortifygov.com

Chapter 4: Running Assessments

Fortify on Demand offers comprehensive security testing across three assessment types: static, dynamic, and mobile.

This section contains the following topics:

Static Assessments	80
Open Source Software Composition Analysis	
Dynamic Assessments	123
Mobile Assessments	153
Entitlement Consumption	
Managing Scans	

Static Assessments

A static assessment analyzes an application's source code, bytecode, or binaries for possible security vulnerabilities. Static assessments are powered by Fortify Static Code Analyzer. Static testing using Fortify Static Code Analyzer involves:

- 1. Translating the source code into an intermediate translated format
- 2. Analyzing the translated code

This section contains the following topics:

Supported Languages	81
Supported Compilers	83
Supported Libraries, Frameworks, and Technologies	84
Preparing Static Assessment Files	90
Configuring a Static Scan	107
Uploading a Static Assessment Payload Through the Portal	111
Static Assessment Payload Validation	114

Supported Languages

Fortify Static Code Analyzer supports the programming languages listed in the following table.

Language / Framework	Versions
.NET	5.0, 6.0, 7.0, 8.0
.NET Core	2.0-3.1
.NET Framework	2.0-4.8
ABAP/BSP	6
ActionScript	3.0
Арех	55–58
Bicep	0.12.x-0.15.x
C#	5, 6, 7, 8, 9, 10, 11, 12
С	C11, C17 (see "Supported Compilers" on page 83)
C++	C++11, C++14, C++17, C++20 (see "Supported Compilers" on page 83)
Classic ASP (with VBScript)	2.0, 3.0
COBOL	IBM Enterprise COBOL for z/OS 6.1 (or earlier), 6.2, and 6.3 with CICS, IMS, DB2, and IBM MQ
	Visual COBOL 6.0, 7.0, 8.0
ColdFusion	8, 9, 10
Dart	2.x (2.12 and later), 3.0
Docker (Dockerfiles)	any
Flutter	2.0–3.3
Go	1.12-1.20
	Note: Fortify Static Code Analyzer supports analyzing Go code on

Language / Framework	Versions
	Windows and Linux.
HCL	2.0 Note: HCL language support is specific to Terraform and supported cloud provider Infrastructure as Code (IaC) configurations.
HTML	5 or earlier
Java (including Android)	7–17
JavaScript	ECMAScript 2015-2023
JSON	ECMA-404
JSP	1.2, 2.1
Kotlin	1.3-1.8
MXML (Flex)	4
Objective-C/C++	2.0 (see "Supported Compilers" on the next page)
PHP	7.3, 7.4, 8.0, 8.1, 8.2
PL/SQL	8.1.6
Python	2.6, 2.7, 3.0-3.12
Ruby	1.9.3
Scala	2.11, 2.12, 2.13
Solidity	0.4.12-0.8.21
Swift	5–5.9 (see "Supported Compilers" on the next page for supported swiftc versions)
T-SQL	SQL Server 2005, 2008, 2012
TypeScript	2.8, 3.x, 4.x, 5.0

Language / Framework	Versions
VBScript	2.0, 5.0
Visual Basic (VB.NET)	11, 14, 15.x, 16.0
Visual Basic	6.0
XML	1.0
YAML	1.2

Supported Compilers

Fortify Static Code Analyzer supports the compilers listed in the following table.

Compiler	Versions	Operating Systems	
gcc	GNU gcc 6.x-10.4, 11	Windows, Linux, macOS	
	GNU gcc 4.9, 5.x	Windows, Linux, macOS, AIX	
g++	GNU g++ 6.x-10.4, 11	Windows, Linux, macOS	
	GNU g++ 4.9, 5.x	Windows, Linux, macOS, AIX	
OpenJDK javac	9, 10, 11, 12, 13, 14, 17	Windows, Linux, macOS, AIX	
Oracle javac	7, 8, 9	Windows, Linux, macOS	
cl (MSVC)	2015, 2017, 2019, 2022	Windows	
Clang	14.0.0, 14.0.3, 15.0.0	macOS	
Swiftc	5.7, 5.7.1, 5.8, 5.8.1, 5.9 ¹	macOS	

¹Fortify Static Code Analyzer supports applications built in the following Xcode versions: 14, 14.0.1, 14.1, 14.2, 14.3, 14.3.1, 15, 15.0.1.

Supported Libraries, Frameworks, and Technologies

Fortify Static Code Analyzer supports the libraries, frameworks, and technologies listed in this section with dedicated Fortify Secure Coding Rulepacks and vulnerability coverage beyond core supported languages.

Java

Adobe Flex Blaze DS	Apache Slide	iBatis	Mozilla Rhino	Spring MVC
Ajanta	Apache Spring	IBM MQ	MyBatis	Spring Boot
Amazon Web Services	Security (Acegi)	IBM WebSphere	Netscape LDAP API	Spring Data Commons
(AWS) SDK	Apache Struts	Jackson	OpenCSV	Spring Data JPA
Android	Apache Tapestry	Jakarta Activation	Oracle Application	Spring Data MongoDB
Android Jetpack	Apache Tomcat	Jakarta EE (Java EE)	Development	Spring Data Redis
Apache Axiom	Apache Torque	Jasypt	Framework (ADF)	Spring HATEOAS
Apache Axis	Apache Util	Java Annotations	Oracle BC4J	Spring JMS
Apache Beam	Apache Velocity	Java Excel API	Oracle JDBC	Spring JMX
Apache Beehive NetUI	Apache Wicket	JavaMail	Oracle OA Framework	Spring Messaging
Apache Catalina	Apache Xalan	JAX-RS	Oracle tcDataSet	Spring Security
Apache Cocoon	Apache Xerces	JAXB	Oracle XML Developer Kit (XDK)	Spring Webflow
Apache Commons	ATG Dynamo	Jaxen	OWASP Enterprise	Spring WebSockets
Apache ECS	Azure SDK	JBoss	Security API (ESAPI)	Spring WS
Apache Hadoop	Castor	JDesktop	OWASP HTML	Stripes
Apache	Display Tag	JDOM	Sanitizer	Sun JavaServer Faces
HttpComponents	Dom4j	Jetty	OWASP Java Encoder	(JSF)
Apache Jasper	GDS AntiXSS	JGroups	Plexus Archiver	Tungsten
Apache Log4j	Google Cloud	json-simple	Realm	Weblogic
Apache Lucene	Google Dataflow	JTidy Servlet	Restlet	WebSocket
Apache MyFaces	Google Guava	JXTA	SAP Web Dynpro	XStream
Apache OGNL	Google Web Toolkit	JYaml	Saxon	YamlBeans
Apache ORO	gRPC	Liferay Portal	SnakeYAML	ZeroTurnaround ZIP
Apache POI	Gson	MongoDB	Spring	Zip4J
Apache SLF4J	Hibernate	. longood		

Kotlin

Kotlin support includes all libraries covered for Java and the following Kotlin libraries.

Kotlin standard library

Scala

Scala support includes all libraries covered for Java and the following Scala libraries.

Akka HTTP	Scala Slick
	Scala Shek

Scala Play

.NET

.NET Framework, .NET	ASP.NET Web API	Hot Chocolate	MongoDB	SharePoint Services
Core, and .NET Standard	Azure SDK	IBM Informix .NET	MySQL	SharpCompress
.NET WebSockets	Castle ActiveRecord	Provider	Connector/NET	SharpZipLib
ADO.NET Entity	CsvHelper	Json.NET Log4Net	NHibernate	SQLite .NET Provider
Framework	Dapper	Microsoft ApplicationBlocks	NLog	SubSonic
ADODB	DB2 .NET Provider	Microsoft My	Npgsql	Sybase ASE ADO.NET
Amazon Web Services	DotNetZip	Framework	Open XML SDK	Data Provider
(AWS) SDK	Entity Framework	Microsoft Practices	Oracle Data Provider	Xamarin
ASP.NET MVC	Entity Framework Core	Enterprise Library	for .NET	Xamarin Forms
ASP.NET SignalR	fastJSON	Microsoft Web	OWASP AntiSamy	YamlDotNet
		Protection Library	Saxon	

С

ActiveDirectory LDAP	CURL Library	MySQL	OpenSSL	Sun RPC
Apple System Logging	GLib	Netscape LDAP	POSIX Threads	WinAPI
(ASL)	JNI	ODBC	SQLite	

C++

Boost Smart Pointers	STL
MFC	WMI

SQL

Oracle ModPLSQL

PHP

ADOdb	PHP Debug	PHP Mcrypt	PHP OpenSSL	PHP Smarty
Advanced PHP	PHP DOM	PHP Mhash	PHP PostgreSQL	PHP XML
Debugging	PHP Extension	PHP Mysql	PHP Reflection	PHP XMLReader
CakePHP	PHP Hash	PHP OCI8	PHP SimpleXML	PHP Zend

JavaScript/TypeScript/HTML5

Angular Apollo Server Express GraphQL.js Handlebars Python	Helmet iOS JavaScript Bridge jQuery JS-YAML Mustache	Node.js Azure Storage Node.js Core React React Native	React Native Async Storage React Router SAPUI5/OpenUI5 Sequelize	Underscore.js Vue
aiopg Amazon Web Services (AWS) Lambda Amazon SageMaker Azure Functions Django Flask Google Cloud Ruby	Graphene gRPC httplib2 Jinja2 LangChain libxml2 Ixml	memcache-client _mysql MySQL Connector/Python MySQLdb OpenAl oslo.config	psycopg2 pycrypto PyCryptodome pycurl pylibmc PyMongo PyYAML	requests simplejson six Twisted Mail urllib3 WebKit
MySQL pg Objective-C	Rack SQLite	Thor		
AFNetworking Apple AddressBook Apple AppKit Apple CFNetwork Apple ClockKit Apple CommonCrypto	Apple CoreFoundation Apple CoreLocation Apple CoreServices Apple CoreTelephony Apple Foundation Apple HealthKit	Apple LocalAuthentication Apple MessageUI Apple Security Apple Social Apple UIKit	Apple WatchConnectivity Apple WatchKit Apple WebKit Hpple Objective-Zip	SBJson SFHFKeychainUtils SSZipArchive ZipArchive ZipUtilities ZipZap

Realm

Apple CoreData

Swift

Alamofire	Apple CoreFoundation	Apple MessageUI	Apple WatchKit	Zip
Apple AddressBook	Apple CoreLocation	Apple Security	Apple WebKit	ZipArchive
Apple CFNetwork	Apple Foundation	Apple Social	Hpple	ZIPFoundation
Apple ClockKit	Apple HealthKit	Apple SwiftUI	Realm	ZipUtilities
Apple CommonCrypto	Apple	Apple UIKit	SQLite	ZipZap
Apple CoreData	LocalAuthentication	Apple WatchConnectivity	SSZipArchive	

COBOL

Auditor	Micro Focus	POSIX
CICS	COBOL Run-time System	SQL
DLI	MQ	

Go

GORM logrus

gRPC

Configuration

.NET Configuration	Docker Configuration	Java Apache Struts	Java OWASP	OpenAPI Specification
Adobe Flex	(Dockerfiles)	Java Apache Tomcat	AntiSamy	Oracle Application
(ActionScript)	GitHub Actions	Configuration	Java Spring and	Development
Configuration	Google Android	Java Blaze DS	Spring MVC	Framework (ADF)
Ajax Frameworks	Configuration	Java Hibernate	Java Spring Boot	PHP Configuration
Amazon Web Service	iOS Property List	Configuration	Java Spring Mail	PHP WordPress
(AWS)	J2EE Configuration	Java iBatis	Java Spring Security	Silverlight
Ansible	Java Apache Axis	Configuration	Java Spring	Configuration
AWS CloudFormation	Java Apache Log4j	Java IBM WebSphere	WebSockets	Terraform (AWS,
Azure Resource	Configuration	Java MyBatis	Java Weblogic	Azure, GCP)
Manager (ARM)	Java Apache Spring	Configuration	Kubernetes	WS-SecurityPolicy
Build Management	Security (Acegi)		Mule	XML Schema

Infrastructure as Code: Amazon Web Services

API Gateway	Database Migration	ElastiCache	Lightsail	Rekognition
AppSync	Service (DMS)	EMR	Location Service	Route 53
Athena	DocumentDB	FinSpace	Mainframe	SageMaker
Aurora	DynamoDB	FSx	Modernization	Secrets Manager
Backup	EC2	Global Accelerator	Managed Streaming	Simple Notification
Batch	Elastic Block Store	Glue	for Apache Kafka (MSK)	Service (SNS)
Certificate Manager	(EBS) Elastic Container	GuardDuty	MemoryDB for Redis	Simple Queue Service (SQS)
CloudFormation	Registry (ECR)	Identity and Access	MQ	Simple Storage Service
CloudFront	Elastic Container	Management (IAM)	Neptune	(S3)
CloudTrail	Service (ECS)	Image Builder	OpenSearch Service	Timestream
CloudWatch	Elastic File System (EFS)	Key Management Service (KMS)	Quantum Ledger	Transfer Family
CodeStar	Elastic Kubernetes	Kinesis	Database (QLDB)	VPC
Cognito	Service (EKS)		RDS	WorkSpaces Family
Config	Elastic Load Balancing (ELB)	Kinesis Video Streams	Redshift	

Infrastructure as Code: Microsoft Azure

App Service	Batch	Database for MySQL	IoT Hub	SignalR Service
Automation	Blob Storage	Database for	Key Vault	Site Recovery
Azure Active Directory	Cache for Redis	PostgreSQL	Logic Apps	Spring Apps
Domain Services	Cognitive Search	Databricks	Media Services	SQL
Azure Health Data Services	Container Registry	Defender for Cloud	Monitor	Storage Accounts
Azure Kubernetes	Cosmos DB	Event Hubs	NetApp Files	Virtual Machine Scale
Service (AKS)	Database for MariaDB	Front Door	Policy	Sets
		IoT Central	Portal	Virtual Machines

Infrastructure as Code: Google Cloud

Apigee API	Cloud DNS	Cloud Spanner	Filestore	Identity and Access
Management	Cloud Functions	Cloud SQL	Google Cloud Platform	Management (IAM)
App Engine	Cloud Key	Cloud Storage	Google Kubernetes	Media CDN
BigQuery	Management	Compute Engine	Engine (GKE)	Pub/Sub
Cloud Bigtable	Cloud Load Balancing	pg		Secret Manager
	Cloud Logging			

Web PubSub

Secrets

.netrc	Defined	HashiCorp (Terraform,	New Relic	Sendbird	
1Password	DES	Vault)	npm	SendGrid	
Actually Good	DigitalOcean	Heroku	NuGet	Sentry	
Encryption (AGE)	Docker	HexChat	Okta	SHA1	
Adafruit	Doppler	HubSpot	OpenVPN	SHA256	
Adobe	Droneci	Intercom	Password in	SHA512	
Airtable	Dropbox	Java	comment	Shippo	
Algolia	Duffel	JFrog (Artifactory)	Password in	Shopify	
Alibaba (Aliyun)	Dynatrace	JSON Web Token	connection string	Sidekiq	
Amazon (AWS, MWS)	EasyPost	KDE Wallet (Kwallet)	Password in PowerShell script	Slack	
Apple (macOS)	Encryption key	KeePass	Password in URI	SonarQube	
Apache HTTP	Etsy	Kraken	Password Safe	Square	
Asana	Facebook	Kucoin	PayPal (Braintree)	Squarespace	
Atlassian	Fastly	LaunchDarkly	Pidgin	StackHawk	
Authress	Finicity	Linear	Plaid	Stripe	
Basic access	Finnhub	LinkedIn	Planetscale	Sumologic	
authentication	Flickr	Lob	PostgreSQL	Telegram	
bcrypt	Flutterwave	Mailchimp	Postman	Travis	
Beamer	Frame.io	Mailgun	Prefect	Trello	
Bearer token	Freshbooks	Mapbox	Pulumi	Twilio	
Bitbucket	Git	Mattermost	PuTTY	Twitch	
Bittrex	GitHub	MD5	ΡγΡΙ	Twitter	
Brevo (Sendinblue)	GitLab	MessageBird	RapidAPI	Typeform	
Clojars	Gitter	Microsoft (Azure App	Readme	Yandex	
Code Climate	GNOME	Storage, Cosmos DB, Functions and Bitlocker,	RSA Security	Zendesk	
Codecov	GNU (Bash)	PowerShell, RDP, VBScript)	Ruby (Ruby on Rails,		
Coinbase	GoCardless	Microsoft (Outlook)	RubyGems)		
Confluent	Google (API, Google	Mutt	Sauce Labs		
Contentful	Cloud, OAuth)	MySQL	Secret key		
Databricks	Grafana	Netlify	Secure Shell Protocol		
Datadog			(SSH)		

Preparing Static Assessment Files

The first step in a static assessment is to prepare your application's source code and/or compiled files. To prevent rejection of the static assessment and get comprehensive and accurate scan results, prepare the files according to the instructions provided for the programming language or technology stack of the application.

Note: For information on preparing files for open source software composition analysis, see "Preparing Open Source Assessment Files" on page 116.

This section contains the following topics:

Static Assessment File Requirements	
Installing and Using the Fortify ScanCentral SAST Client	
Preparing .NET Application Files	
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Preparing JavaScript Technology/HTML/XML Files	
Preparing Kotlin Application Files	
Preparing ABAP (SAP) Application Files	
Preparing C and C++ Application Files	
Preparing Classic ASP, VBScript, and Visual Basic Application Files	
Preparing Dart and Flutter Application Files	
Preparing COBOL Application Files	
Preparing ColdFusion Markup Language (CFML) Application Files	
Preparing Dockerfiles and Infrastructure as Code (IaC) Files	
Preparing Go Application Files	
Preparing PHP Application Files	
Preparing Python Application Files	
Preparing Ruby Application Files	
Preparing Solidity Application Files	
Preparing Salesforce (Apex and Visualforce) Application Files	
Preparing Scala Application Files	
Preparing Android Application Files (Source Code)	
Preparing iOS Application Files (Source Code)	

Static Assessment File Requirements

Applications submitted for static assessments must meet the following file requirements:

- Application files must be packaged in a non-password protected zip file. Other file extensions such as tarball, rar, tar, and 7z, are not supported.
- The maximum payload size is 5 GB for a monolithic application and 100 MB for a microservice application; free trials are restricted to a maximum payload size of 150 MB.
- The payload must contain at least one of the following file types:
 - Binary/compiled files: binary/compiled files are the debug compiled executable files produced by compiling your application's source code files and the executable library and resource files produced by third party dependencies that are used by your application.
 - Source code files: source code files are the text files compiled to produce the application files.
- Application files must meet specific requirements for the technology stack under which the application is submitted. Make sure to prepare the application files as instructed for that technology stack.
- In general, code submitted must be fully deployable. For example, this means that a JAR file must have executable code.

Installing and Using the Fortify ScanCentral SAST Client

Fortify offers a stand-alone Fortify ScanCentral SAST client for automatically packaging all necessary dependencies and source code required for static scanning and the files required for Debricked open source scanning. The following languages are supported: .NET and .NET Core (MSBuild projects), Apex, Classic ASP, ColdFusion, Dockerfiles, Go, Java (Gradle and Maven projects), Javascript/Typescript, PHP, Python, and Ruby.

The latest version of the Fortify ScanCentral SAST client is available from the Tools page in the portal. Installation instructions are available in the README.txt file stored in the zip file.

For more information about using the Fortify ScanCentral SAST client, see the Fortify Software Security Center Documentation. Select the documentation version that corresponds to your installed version.

Important! The stand-alone Fortify ScanCentral SAST client is a component of the on-premises Fortify ScanCentral SAST software and is used to package code to send to a Controller for scanning. Fortify on Demand uses only the packaging feature of the Fortify ScanCentral SAST client. Details that are relevant to packaging your source code has been provided.

• Software requirements: "Fortify ScanCentral SAST Client Software Requirements" in *Fortify* Software System Requirements

Note: If you need to run Java 8 on your build machine, contact support to request version 21.1.5 of the Fortify ScanCentral SAST client. This version is specific to Fortify on Demand and is compatible with Java 8. It also supports packaging of the Debricked dependency tree files.

- Supported build tools: "Fortify ScanCentral SAST Sensor Languages and Build Tools" in *Fortify* Software System Requirements
- Command-line options: "Package Command" in Fortify ScanCentral SAST Installation, Configuration, and Usage Guide

Preparing .NET Application Files

For .NET implementations (.NET, .NET Core, .NET Framework, and Xamarin applications for Android and iOS), use one of the following methods to prepare your application files:

- "Automated Code Packaging with Fortify ScanCentral SAST (Recommended)" below
- "Code Packaging with IDE Tools" below
- "Manual Code Packaging" on the next page

Fortify Static Code Analyzer supports scanning .NET applications on Windows system only.

Important! Source code is scanned by default. Fortify strongly recommends providing source code, as this produces more accurate and comprehensive scan results. In addition, as the scanning process can result in false positives, auditors use the source code to manually review issues. If source code scanning is not an option, contact support to enable binary/compiled code scanning.

Automated Code Packaging with Fortify ScanCentral SAST (Recommended)

The Fortify ScanCentral SAST client automatically packages source code and all necessary dependencies in your MSBuild project.

To package a MSBuild project with the Fortify ScanCentral SAST client:

- 1. Download the Fortify ScanCentral SAST client from the Tools page.
- 2. Install the Fortify ScanCentral SAST client on the build machine. Installation instructions are available in the README.txt file stored in the zip file.
- 3. In a command-line interface, run scancentral.bat to package your MSBuild project. The basic syntax is: scancentral package -bf <build_file> -o <output_zip>. For example, scancentral package -bf my.sln -o mypayload.zip For more information on using Fortify ScanCentral SAST, including additional command-line arguments, see "Installing and Using the Fortify ScanCentral SAST Client" on the previous page.

Important! The MSBuild executable must be added to the PATH environment variable. Fortify recommends running theFortify ScanCentral SAST client from the Visual Studio command prompt, which sets the required .NET variables automatically.

Note: Fortify ScanCentral SAST packaging is built in to the Fortify Extension for Visual Studio Code, Visual Studio Extension, Fortify Azure DevOps Extension, and Fortify on Demand Jenkins Plugin. For more information on using these tools, see "Tools" on page 329.

Code Packaging with IDE Tools

The IDE plugins enable selection of project files and necessary dependencies for packaging. For more information on using IDE tools, see "IDE Tool" on page 329.

Manual Code Packaging

Manual code packaging consists of:

- Preparing source code files
- Preparing compiled files (for binary/compiled code)
- Creating a zip file containing the source code and compiled files

Preparing Source Code Files

Source code consists of all projects for the application. A complete project contains the following:

- All necessary source code files (C/C++, C#, or VB.NET)
- All required reference libraries

This includes those from relevant frameworks, NuGet packages, and third-party libraries.

- For C/C++ projects, include all necessary header files that do not belong to the Visual Studio or MSBuild installation.
- For ASP.NET and ASP.NET Core projects, include all the necessary ASP.NET page files The supported ASP.NET page types are ASPX, ASCX, ASAX, ASHX, ASMX, AXML, Master, CSHTML, VBHTML, BAML, and XAML.

In addition, make sure to do the following tasks to help reduce undesirable scan results:

- Include only one copy of your dependencies that are targeted to your specified .NET version.
- Do not provide the obj and bin/release folders in order to avoid duplicate code in the payload.

Note: If you are working in the Visual Studio Developer Command Prompt, Fortify recommends that you run the dotnet restore command to make sure that all required reference libraries are downloaded and installed in the project. You must run this command from the top-level folder of the project.

Preparing Compiled Files (for binary/compiled code)

• Clean and compile the application in **full** debug mode. Scan results of compiled files only include file names and line numbers if there are matching PDB files. Matching binary and PDB files must be present in the same folder; a binary is excluded if the matching PDB file is not present.

Note: If you are including third party libraries in scan results, matching PDB files are required.

• Provide the debug build files, including all dependencies. Do not provide the obj and bin/release folders in order to avoid duplicate code in the payload.

Creating a Zip File

Package the source code and the debug build files in a zip file. Place the source code files in a separate root directory.

If the application contains Javascript, HTML, and/or XML components, simply include the JavaScript, HTML, and/or XML files in the payload to have them scanned.

Preparing Java Application Files

For Java applications, use one of the following methods to prepare your application files:

- "Automated Code Packaging with Fortify ScanCentral SAST (Recommended)" below
- "Code Packaging with IDE Tools (Recommended)" below
- "Manual Code Packaging" below

Important! Source code is scanned by default. Fortify strongly recommends providing source code, as this produces more accurate and comprehensive scan results. In addition, as the scanning process can result in false positives, auditors use the source code to manually review issues. If source code scanning is not an option, contact support to enable binary code scanning.

Automated Code Packaging with Fortify ScanCentral SAST (Recommended)

The Fortify ScanCentral SAST client automatically packages source code and all necessary dependencies in your Gradle or Maven project.

Note: Fortify ScanCentral SAST packaging is built in to the Fortify Extension for Visual Studio Code, Visual Studio Extension, Fortify Azure DevOps Extension, and Fortify on Demand Jenkins Plugin. For more information on using these tools, see "Tools" on page 329.

To package a Gradle or Maven project with the Fortify ScanCentral SAST client:

- 1. Download the Fortify ScanCentral SAST client from the Tools page.
- 2. Install the Fortify ScanCentral SAST client on the build machine. Installation instructions are available in the README.txt file stored in the zip file.
- 3. In a command-line interface, run scancentral.bat to package your Gradle or Maven project. The basic syntax is: scancentral package -bf <build_file> -o <output_zip>.For example, scancentral package -bf pom.xml -o mypayload.zip, scancentral package -bf build.gradle -o mypayload.zip For more information on using Fortify ScanCentral SAST, including additional command-line arguments, see "Installing and Using the Fortify ScanCentral SAST Client" on page 91.

Code Packaging with IDE Tools (Recommended)

The IDE plugins enable selection of project files and necessary dependencies for packaging. For more information on using IDE tools, see "IDE Tool" on page 329.

Manual Code Packaging

Manual code packaging consists of:

- Preparing source code files
- Preparing compiled files
- Creating a zip file containing the source code and compiled files

Preparing Source Code Files

Provide the source code, along with any relevant Kotlin source code that is referenced by the Java application.

Preparing Compiled Files

- Compile the application in debug mode (for example, run javac -g if you are using the javac compiler). Scan results of compiled files only include file names and line numbers if debug information is provided.
- JSP files must be part of a WAR file. Do not precompile JSP files.
- Package the application as a JAR, WAR, or EAR file.
- Provide only one copy of shared files to avoid duplicate code in the payload.
- If source mode scanning will be used, provide just the dependencies from the compiled files to minimize duplicate issues in scan results. Dependencies are usually found in the WEB-INF/lib folders (WAR) and the lib or APP-INF/lib folders (EAR).
- If mixed mode scanning will be used, provide all the compiled files, including dependencies.

Creating a Zip File

Package the source code and compiled files in a zip file. You can include multiple JAR, WAR, and EAR files in the zip file. Do not include source code in JARs; place the source code files in a separate root directory.

If the application contains Javascript, HTML, and/or XML components, simply include the JavaScript, HTML, and/or XML files in the payload to have them scanned.

Preparing JavaScript Technology/HTML/XML Files

For applications that consist of JavaScript, TypeScript, HTML, and/or XML files, package the files in a zip file. Include all production dependencies. For example, run npm install --only=prod if you are using npm. Upload the zip file under the **JS/TS/HTML** technology stack option. For React Native mobile app projects, upload the zip file under the **React Native** option.

If applicable, make sure to do the following:

- Include the package.json file.
- Provide only TypeScript source code, not transpiled TypeScript. For example, do not provide the dist folder generated when building an Angular project.
- Do not include minified JavaScript files of your source code, as minified code significantly diminishes the quality of scan results.

For applications that are built with different languages or technology stacks and contain Javascript, HTML, and/or XML files, package the application according to the instructions provided for the language or technology stack and simply include the JavaScript, HTML, and/or XML files in the package. JS/TS/HTML is a catch-all option for simple web applications and web applications that primarily use JavaScript-related technologies.

Preparing Kotlin Application Files

For Kotlin applications, package the Kotlin source code files in a zip file, along with any relevant Java source code that is referenced by the Kotlin application. Include all dependencies; these are usually found in the WEB-INF/lib folders (WAR) and the lib or APP-INF/lib folders (EAR).

Important! Scanning of Kotlin source files is supported.

Preparing ABAP (SAP) Application Files

ABAP code needs to be extracted from the SAP database and prepared for scanning. The Fortify ABAP Extractor tool is provided for downloading source code files to the presentation server.

Importing the Transport Request

The Fortify ABAP Extractor is available on the Tools page in the portal (see "Viewing Tools" on page 333. The Fortify ABAP Extractor zip file contains the following files:

- K900XXX.S9S (where the "XXX" is the release number)
- R900XXX.S9S (where the "XXX" is the release number)

These files make up the SAP transport request that you must import into your SAP system from outside your local Transport Domain. Have your SAP administrator or an individual authorized to install transport requests on the system import the transport request.

The NSP files contain a program, a transaction (YSCA), and the program user interface. After you import them into your system, you can extract your code from the SAP database.

Installation Note

The Fortify ABAP Extractor transport request was created on a system running SAP release 7.02, SP level 0006. If you are running a different SAP version and you get the transport request import error: Install release does not match the current version, then the transport request installation has failed.

To resolve this issue:

1. Re-run the transport request import.

The Import Transport Request dialog box opens.

- 2. Click the **Options** tab.
- 3. Select the Ignore Invalid Component Version check box.
- 4. Complete the import procedure.

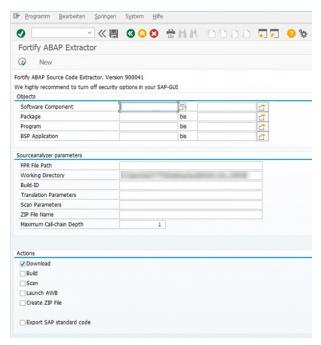
If this does not resolve the issue or if your system is running on an SAP version with a different table structure, Fortify recommends that you export your ABAP file structure using your own technology so that Fortify on Demand can scan the ABAP code.

Running the Fortify ABAP Extractor

You need to use an account with permission to download files to the local system and execute operating system commands.

To run the Fortify ABAP Extractor:

1. Start the program from the transaction code or manually start the Extractor object.



2. Provide the start and end name for the range of software components, packages, programs, or BSP applications that you want to scan.

Note: You can specify multiple objects or ranges.

3. Specify your preferences for extracting the source code. Fields are required unless otherwise noted.

Note: Certain fields do not apply to Fortify on Demand usage. Only applicable fields are listed.

Field	Description
Working Directory	Type or select the directory where you want to store the extracted source code .
ZIP File Name	(Optional) Type a ZIP file name if you want your output in a compressed package.

Field	Description
Maximum Call-chain Depth	A global SAP-function F is not downloaded unless F was explicitly selected or unless F can be reached through a chain of function calls that start in explicitly- selected code and whose length is this number or less. Fortify recommends that you do not specify a value greater than 2 unless directed to do so by support.

4. Specify the actions to execute. Fields are required unless otherwise noted.

Note: Certain fields do not apply to Fortify on Demand usage. Only applicable fields are listed below.

Field	Description
Download	Select this check box to download the source code extracted from your SAP database.
Create ZIP file	(Optional) Select this check box to compress the output. You can also manually compress the output after the source code is extracted from your SAP database.
Export SAP standard code	(Optional) Select this check box to export SAP standard code in addition to custom code.

5. Click **Execute**.

Fortify ABAP Extractor Notes

Because the Fortify ABAP Extractor program is executed online, you might receive a max dialog work process time reached exception if the volume of source files selected for extraction exceeds the allowable process run time. To work around this, download large projects as a series of smaller Extractor tasks. For example, if your project consists of four different packages, download each package separately into the same project directory. If the exception occurs frequently, work with your SAP Basis administrator to increase the maximum time limit (rdisp/max_wprun_time).

When a PACKAGE is extracted from ABAP, the Fortify ABAP Extractor extracts everything from TDEVC with a parentcl field that matches the package name. It then recursively extracts everything else from TDEVC with a parentcl field equal to those already extracted from TDEVC. The field extracted from TDEVC is devclass.

The devclass values are treated as a set of program names and handled the same way as a program name, which you can provide.

Programs are extracted from TRDIR by comparing the name field with either:

- The program name specified in the selection screen
- The list of values extracted from TDEVC if a package was provided

The rows from TRDIR are those for which the name field has the given program name and the expression LIKEprogramname is used to extract rows.

This final list of names is used with READ REPORT to get code out of the SAP system. This method does read classes and methods out as well as merely REPORTs, for the record.

Each READ REPORT call produces a file in the temporary folder on the local system.

As source code is downloaded, the Fortify ABAP Extractor detects INCLUDE statements in the source. When found, it downloads the include targets to the local system.

Packaging ABAP Source Code

If you did not have Fortify ABAP Extractor compress the output, package the downloaded source code files in a zip file.

Preparing C and C++ Application Files

Fortify on Demand does not support direct scanning of C/C++ source code or their binaries. C/C++ code must be translated and packaged into an archive in your environment. This ensures consistency in translation regarding environmental variables and compilers used and alleviates the need for Fortify on Demand to reproduce your build environment. A translate-only version of Fortify Static Code Analyzer is provided for translating C/C++ code and packaging it for scanning.

Installing Fortify Static Code Analyzer

The latest version of Fortify Static Code Analyzer is available on the Tools page in the portal (see "Viewing Tools" on page 333. You can download installers for Windows, macOS, and Linux operating systems. A valid license file is required to translate source code. Contact support to be issued a license, which will be available from the Tools page.

For installation and usage instructions, see the *Micro Focus Fortify Static Code Analyzer User Guide* at Fortify Static Code Analyzer and Tools Documentation.

Translating Code

- 1. In a command-line interface, change the directory to your normal build directory.
- 2. Execute the following command:

```
sourceanalyzer -debug -verbose -logfile translate.log -b <build-id>
touchless <build_command>
where <build_command> is your build script.
Example:
```

```
sourceanalyzer -debug -verbose -logfile translate.log -b my_proj
touchless make all
```

3. Verify that the project builds correctly by checking the console output for completion and the translate.log for errors.

Packaging Translated Code

A Fortify Static Code Analyzer mobile build session (MBS) lets you translate a project on one machine and scan it on another. A mobile build session file (MBS file) includes all the files needed for the scan.

To generate and package an MBS file:

1. On the machine where the translation was done, issue the following command to generate a mobile build session:

sourceanalyzer -b <build-id> -export-build-session <file.mbs>

where *<file.mbs>* is the file name you provide for the mobile build session.

- 2. Package the MBS file in the root of a zip file. Do not include other files (including additional MBS files) or directories; this might cause the scan to be cancelled.
- 3. Upload the zip file to Fortify on Demand under the **MBS/C/C++** technology stack option.

For more information about using Fortify Static Code Analyzer, see the *Micro Focus Fortify Static Code Analyzer User Guide* at Fortify Static Code Analyzer and Tools Documentation.

Preparing Classic ASP, VBScript, and Visual Basic Application Files

For Classic ASP, VBScript, and Visual Basic (VB6) applications, package the source code files in one zip file.

Preparing Dart and Flutter Application Files

Package the source code files in a zip file. Include all dependencies.

Download the dependencies by running one of the following commands:

- For Flutter projects, use flutter pub get.
- For Dart-only projects, use dart pub get.

For example, to download the dependencies for a Flutter project that has the project root myproject, run the following commands:

cd myproject flutter pub get

Important! If the project includes nested packages with different pubspec.yaml files, you must run dart pub get or flutter pub get for each package root.

Important! Make sure that the following are included in the project directory:

- The pubspec.yaml file, which specifies the dependencies
- The .dart_tool directory, which includes the package_config.json file automatically generated by the pub tool

Preparing COBOL Application Files

For COBOL applications, package the COBOL source code, the copybook files that the COBOL source code uses, and the SQL INCLUDE files that the COBOL source code references in one zip file. Copybook and SQL INCLUDE files must retain the names used in the COBOL source code COPY statements.

Do not include copybook or SQL INCLUDE files in the directory or the subdirectory where the COBOL sources reside. Fortify recommends that you place your COBOL source code in a folder called sources/ and your copybooks in a folder called copybooks/. Place these folders at the same level.

Zip file

- sources/ folder
- copybooks/ folder

Preparing ColdFusion Markup Language (CFML) Application Files

For CFML applications, package the source code files in one zip file.

Preparing Dockerfiles and Infrastructure as Code (IaC) Files

Infrastructure as Code (IaC) configuration files and Dockerfiles can be submitted as stand-alone payloads. Package the files in a zip file and submit it under the **Infrastructure-As-Code/Dockerfile** technology stack.

For containerized applications, package the application according to the instructions provided for the application's language or technology stack and include the Dockerfile in the package.

Note:

Fortify Static Code Analyzer translates the following files as Dockerfiles: Dockerfile, dockerfile, *.Dockerfile, and *.dockerfile.

Fortify Static Code Analyzer accepts the following escape characters in Dockerfiles: backslash (\) and backquote (`). If the escape character is not set in the Dockerfile, then Fortify Static Code Analyzer assumes that the backslash is the escape character.

Preparing Go Application Files

For Go applications, use one of the following methods to prepare your application files:

- "Automated Code Packaging with Fortify ScanCentral SAST (Recommended)" on the next page
- "Code Packaging with IDE Tools" on the next page
- "Manual Code Packaging" on the next page

Automated Code Packaging with Fortify ScanCentral SAST (Recommended)

The Fortify ScanCentral SAST client automatically packages source code and all necessary dependencies in your Go project.

To package a Go project with the Fortify ScanCentral SAST client:

- 1. Download the Fortify ScanCentral SAST client from the Tools page.
- 2. Install the Fortify ScanCentral SAST client on the build machine. Installation instructions are available in the README.txt file stored in the zip file.
- 3. In a command-line interface, run scancentral.bat to package your Go project. The basic syntax is: scancentral package -o <output_zip>. For example, scancentral package o mypayload.zip

For more information on using Fortify ScanCentral SAST, including additional command-line arguments, see "Installing and Using the Fortify ScanCentral SAST Client" on page 91.

Note: Fortify ScanCentral SAST packaging is built in to the Fortify Extension for Visual Studio Code, Visual Studio Extension, Fortify Azure DevOps Extension, and Fortify on Demand Jenkins Plugin. For more information on using these tools, see "Tools" on page 329.

Code Packaging with IDE Tools

The IDE plugins enable selection of project files and necessary dependencies for packaging. For more information on using IDE tools, see "IDE Tool" on page 329.

Manual Code Packaging

Package the Go source code files in a zip file. Include dependencies that are not in the standard Go libary. Make sure that these dependencies are in the Vendor folder.

The following dependency management systems built into Go are supported:

• Go modules (recommended)

If your project uses Go modules, the project files (including the go.mod file) must be in the root of the zip file. Do not place the project files inside nested directories.

• GOPATH (deprecated in Go 1.13)

Note: The following entities are excluded from scanning:

- Vendor folder
- All projects defined by any go.mod files in subfolders
- All files with the _test.go suffix (unit tests)

Preparing PHP Application Files

For PHP applications, use one of the following methods to prepare your application files:

- "Automated Code Packaging with Fortify ScanCentral SAST (Recommended)" below
- "Code Packaging with IDE Tools" below
- "Manual Code Packaging" below

Automated Code Packaging with Fortify ScanCentral SAST (Recommended)

The Fortify ScanCentral SAST client automatically packages source code and all necessary dependencies in your PHP project.

To package a PHP project with the Fortify ScanCentral SAST client:

- 1. Download the Fortify ScanCentral SAST client from the Tools page.
- 2. Install the Fortify ScanCentral SAST client on the build machine. Installation instructions are available in the README.txt file stored in the zip file.
- 3. In a command-line interface, run scancentral.bat to package your PHP project. The basic syntax is: scancentral package -hv <version> -o <output_zip>. For example, scancentral package -hv 7.1 -o mypayload.zip For more information on using Fortify ScanCentral SAST, including additional command-line arguments, see "Installing and Using the Fortify ScanCentral SAST Client" on page 91.

Note: Fortify ScanCentral SAST packaging is built in to the Fortify Extension for Visual Studio Code, Visual Studio Extension, Fortify Azure DevOps Extension, and Fortify on Demand Jenkins Plugin. For more information on using these tools, see "Tools" on page 329.

Code Packaging with IDE Tools

The IDE plugins enable selection of project files and necessary dependencies for packaging. For more information on using IDE tools, see "IDE Tool" on page 329.

Manual Code Packaging

•

Package the source code files in one zip file. Make sure to include the php.ini file with the package. This file helps to identify where dependencies reside.

Preparing Python Application Files

For Python applications, use one of the following methods to prepare your application files:

• "Automated Code Packaging with Fortify ScanCentral SAST (Recommended)" on the next page

Important! Python microservices must be packaged using the Fortify ScanCentral SAST client

- "Code Packaging with IDE Tools" on the next page
- "Manual Code Packaging" on the next page

Automated Code Packaging with Fortify ScanCentral SAST (Recommended)

The Fortify ScanCentral SAST client automatically packages source code and all necessary dependencies in your Python project.

To package a Python project with the Fortify ScanCentral SAST client:

- 1. Download the Fortify ScanCentral SAST client from the Tools page.
- 2. Install the Fortify ScanCentral SAST client on the build machine. Installation instructions are available in the README.txt file stored in the zip file.
- 3. In a command-line interface, run scancentral.bat to package your Python project. The basic syntax is: scancentral package -o <output_zip>. For example, scancentral package o mypayload.zip

For more information on using Fortify ScanCentral SAST, including additional command-line arguments, see "Installing and Using the Fortify ScanCentral SAST Client" on page 91.

Note: Fortify ScanCentral SAST packaging is built in to the Fortify Extension for Visual Studio Code, Visual Studio Extension, Fortify Azure DevOps Extension, and Fortify on Demand Jenkins Plugin. For more information on using these tools, see "Tools" on page 329.

Code Packaging with IDE Tools

The IDE plugins enable selection of project files and necessary dependencies for packaging. For more information on using IDE tools, see "IDE Tool" on page 329.

Manual Code Packaging

Package the source code files in one zip file. Include all standard and third-party modules and packages; these are found in the lib folder of the Python virtual environment (provide at a minimum the site-packages folder). Fortify on Demand does not support PYC files (compiled Python files).

Note: If your application uses a version of Python not listed in "Supported Languages" on page 81, contact support to discuss your options.

Preparing Ruby Application Files

For applications created in Ruby, package the entire application as it would be deployed and all source code files in one zip file .

Preparing Solidity Application Files

Package the source code files in a zip file. Include all dependencies.

Fortify Static Code Analyzer downloads compilers that are referenced in the code with the pragma statement from the Solidity compiler repository. If a file does not contain a pragma statement, then the default of ^0.8.0 is used.

Preparing Salesforce (Apex and Visualforce) Application Files

To prepare Salesforce (Apex and Visualforce) applications:

- Use the Ant Migration Tool available on the Salesforce website to download your application to your local computer from your Salesforce organization (org) where you develop and deploy it. Make sure that the project manifest files are set up correctly for the specified target in your build.xml file.
- The downloaded version of your application contains:
 - Apex classes in files with the .cls extension
 - Visualforce web pages in files with the .page extension
 - Apex code files called database "trigger" functions in files with the .trigger extension
 - Visualforce component files with the .component extension
 - Objects with the .object extension
- Configure the retrieve targets using the Ant Migration Tool documentation. If your organization uses any apps from the app exchange, make sure that these are downloaded as packaged targets.
- Package the source code files in one zip file.

Preparing Scala Application Files

Scala code must be translated and packaged into an archive in your environment. The Fortify Scala plugin and a translate-only version of Fortify Static Code Analyzer are available for translating Scala and packaging it code for scanning.

Installing Fortify Static Code Analyzer

The latest version of Fortify Static Code Analyzer is available on the Tools page in the portal (see "Viewing Tools" on page 333. You can download installers for Windows, macOS, and Linux operating systems. A valid license file is required to translate source code. Contact support to be issued a license, which will be available from the Tools page.

For installation and usage instructions, see the *Micro Focus Fortify Static Code Analyzer User Guide* at Fortify Static Code Analyzer and Tools Documentation.

Translating Code

To translate Scala code, you must have the following: a standard Lightbend Enterprise Suite license and the Fortify Scala plugin from Lightbend. Contact Fortify on Demand support to obtain a license key. For instructions on downloading the plugin and translating Scala code, see the Lightbend documentation at https://developer.lightbend.com/guides/fortify/.

Important! If your application contains source code in a language other than Scala, submit the other source code in a separate assessment.

Packaging Translated Code

A Fortify Static Code Analyzer mobile build session (MBS) lets you translate a project on one machine and scan it on another. A mobile build session file (MBS file) includes all the files needed for the scan.

To generate and package an MBS file:

1. On the machine where the translation was done, execute the following command to generate a mobile build session:

sourceanalyzer -b <build-id> -export-build-session <file.mbs>

where *<file.mbs>* is the file name you provide for the mobile build session.

- 2. Package the MBS file in the root of a zip file. Do not include other files (including additional MBS files) or directories; this will cause the scan to be cancelled.
- 3. Upload the zip file to Fortify on Demand under the **MBS/C/C++/Scala** technology stack option.

For more information about using Fortify Static Code Analyzer, see the *Micro Focus Fortify Static Code Analyzer User Guide* at Fortify Static Code Analyzer and Tools Documentation.

Preparing Android Application Files (Source Code)

For Android applications, package the Java or Kotlin source code files in one zip file. Include all dependencies that are required to build the Android code in the application project.

Note: Fortify Static Code Analyzer supports Xamarin. For instructions on preparing Xamarin application files, see "Preparing .NET Application Files" on page 92. Other third-party development libraries such as Cordova, Ionic Framework, PhoneGap, and Unity are not supported.

Related Topics:

For information on preparing Android binary files for mobile assessments, see "Preparing Android Application Files (Binary)" on page 154.

Preparing iOS Application Files (Source Code)

For iOS applications, prepare the source code files according to the following instructions:

- Applications must be buildable using xcodebuild from the command line.
- Make sure that any dependencies required to build the project are present in the payload and not accessed through dependency managers like a password-protected GitHub. The payload needs to be buildable in isolation.
- Remove any developer or environment-specific settings from your application
- If your project includes property list files in binary format, you must first convert them to XML format. You can do this with the Xcode plutil command.
- Make sure that the headers for third-party libraries are available.
- Objective-C++ projects must use the non-fragile Objective-C runtime (ABI version 2 or 3).

Package the source code files in one zip file.

Note: Fortify Static Code Analyzer supports Xamarin. For instructions on preparing Xamarin application files, see "Preparing .NET Application Files" on page 92. Other third-party development libraries such as Cordova, Ionic Framework, PhoneGap, and Unity are not supported.

Related Topics:

For information on preparing iOS binary files for mobile assessments, see "Preparing iOS Application Files (Binary)" on page 155

Configuring a Static Scan

After preparing your application files for a static assessment, you need to configure the static scan settings. You only need to configure the static scan settings once per release as your settings are carried over to the next scan. You can edit settings as needed for subsequent assessments.

To configure a static scan:

1. Select the **Applications** view.

Your Applications page appears.

2. Click the name of the application.

The Application Overview page appears.

=	WebGoat (.NET)							
	Policy Compliance	Issues In Production						
•	★☆☆☆☆	CRITICAL	HIGH		MEDIUM		LOW	
Ø	FAIL	135	151		11			
5	Releases				Search Text	Q	+ NEW RELEASE	
PDF	1 found						Display: 25	50 100
202	SELECT ALL							
2~	START SCAN RELEASE	COPY STATE SOURCE RELEASE SDLC	C STATUS POLICY COMPLIANCE		# ISSUES	STATIC	OPEN SOURCE	DYNAMIC
	START SCAN ▷ 5.4	Pro	roduction	CRITICAL HIGH	MEDIUM LOW		Θ	\otimes

3. Click Start Scan for the release that you want to have assessed and select Static.



The Static Scan Setup page appears.

WebGoat (.NET)	5.4			
Static S	can Setup ®		SAVE	START S
	Static Scan Details	986 Unit(s) Available		
)	Assessment Type			
	(Choose One)	~		
)	The service level objective (SLO) for this assessment is business day(s) Pacific Standard Time $^{(0)}$ Entitlement			
1	(Choose One)	~		
1	Source or Compiled Code/Files 🕖			
}	Source Control	~		
	Technology Stack			
	JAVA/J2EE/Kotlin	~		
	Language Level			
	1.8	~		
	Open Source Component Analysis			
	Open Source Component Analysis produces an application bill of materials detailing a list of identified Analysis tool, but no code leaves the Forthy on Demand environment. The known public vulnerabilities Open Source Issues, and will be included in your vulnerability count and risk rating. Note: Refer to the Debricked documentation for the list of required files to be submitted in the payload Scan Binary	in the identified Open Source components are added to the release as		
	Selecting this option will allow the translation and scanning of tenant supplied binary files in the paylou supply full source code. WARNING: Selecting this option may result in increased scan time and increase source code. Binary Scanning is not supported when the payload is created with ScanCentral. Assessme emabled. ⁴	ed false positives. False positive reduction can not be performed without		
	Audit Preference			
	Manual	~		
	Audit preference determines whether a security expert will manually review the scan results for overall automatically suppress new issues identified as fails positives by Audit Assistant with high confidence turnaround time. We recommend a manual audit for the first scan of an application or release with man turnaround time. Failse positive challenges can only be requested for issues introduced during a can turnaround time.	and publish the results without human review, which can reduce the r changes, with subsequent scans using automated audit for shorter		
	Release ID Build Serv	er Integration Token		
	4857 (No toka	en could be generated based on current criteria)		

4. Complete the fields as needed. Fields are required unless otherwise noted.

Field	Description
Assessment Type	Select the assessment type. Only assessment types allowed by the organization's security policy are displayed. The SLO of the selected assessment type appears below the field.
Entitlement	Select the entitlement that the assessment will use. The field displays entitlements that are valid for the selected assessment type, including those available for purchase. Note that microservice applications are restricted to subscriptions. If the release has an active subscription, only options that do not consume entitlements are displayed.
	Note: If you select an entitlement offered through a Dynamic Premium or Mobile Premium assessment, the assessment is activated and the full cost of the entitlement is deducted.
Source or Compiled	Select the method of uploading the payload.Manual Upload (default): Manually upload the payload from your local

Code/Files	system.
	• Source Control : Upload the payload from a version control platform. This option is only available if source control has been configured. For more information, see "Source Control Integration" on page 357.
Technology Stack	Select the application's technology stack. The languages available for selection depends on the application type (web/thick client or mobile) and whether the application is a microservice application.
Language Level	If applicable, select the technology stack's language level from the list.
Open Source Component Analysis	(Optional) Select the check box to include open source component analysis. No code leaves the Fortify on Demand environment. For more information on adding open source component analysis as part of a static scan, see "Open Source Software Composition Analysis" on page 115.
Scan Binary	Note: Contact support to enable the option.
	(Optional; Java/J2EE/Kotlin,.NET, and .NET Core technology stacks) Select the check box to have compiled and source code files scanned. Scanning binary files is not supported for ScanCentral-packaged payloads.
	Note: If the source code inclusion requirement is enabled and this option is not selected, the scan will be cancelled if the payload does not contain source code.
Audit Preference	Select the audit preference.
	• Manual : False positives identified by Fortify Audit Assistant with high confidence are automatically suppressed. A security expert then manually reviews the scan results.
	• Automated : False positives identified by Fortify Audit Assistant with high confidence are automatically suppressed and results are published without manual review.
	Note: Fortify Audit Assistant is only applied to new issues found in a scan.
	The ability to select audit preference depends on the assessment type:

	A Static single scan allows Automated only.
	• A Static subscription allows one Manual audit per application (not per release or microservice).
	• A Static+ single scan allows Manual only.
	 A Static+ subscription allows Automated or Manual audit for each assessment.
Scan third-party libraries for static	Note: Contact support to enable the option.
security assessment	(Optional) Select the check box to have third party libraries scanned for vulnerabilities, which will be included in the scan results. This significantly increases the turnaround time. This option is not available for microservice applications.
	Note: Selecting this option infers that your organization has received consent from all third-party vendors to scan their libraries.
Release ID	Once the static scan settings have been saved, the release ID can be used to submit a static scan using CICD tools. The release ID serves as a token that retrieves the most recently saved scan settings in the portal.
	Important! The release ID replaces the BSI token. Migrate build configurations to the release ID at your earliest convenience.
Build Server Integration	Once the static scan settings (assessment type, technology stack, language level, audit preference, open source component analysis, and include third party libraries) have been configured, a token is automatically populated in the Build Server Integration field. The token can be used to submit a static assessment using external tools.
	Note: The BSI token is persistent across assessments of a release.

5. Click **Save**.

Your static scan settings are saved.

6. If you have the Consume Entitlements permissions and selected a subscription entitlement, click **Start Subscription** to start the static assessment subscription and consume the entitlement without starting a scan.

Note: Contact support to enable the option.

Note: The assessment cost is deducted from the entitlement when a user starts the initial scan.

Uploading a Static Assessment Payload Through the Portal

Once you have packaged the application files and configured the static scan settings, upload the payload for scanning. The maximum payload size limit is 5 GB; web browsers have their own maximum size limits (see your browser documentation for details). As portal timeouts can occur when uploading large files, Fortify recommends uploading through the portal only if the file size is less than 500 MB. If you have difficulties uploading through the portal, see "Related Topics" on page 113 for alternative methods of uploading your files. You can also contact support to discuss the most appropriate upload option.

You can submit multiple scans for an application, including those for the same release. An application can have one in progress static scan at a time. Additional scans are queued and then scanned in the order in which they were queued. Each application can have up to 30 scans in the queue.

To upload a static assessment payload through the portal:

1. Select the **Applications** view.

Your Applications page appears.

2. Click the name of the application.

The Application Overview page appears.

≡	WebGoat (.NET)										
 ♦ ♥ 	Policy Compliance ★☆☆☆☆ FAIL view	Issues In Production CRITICAL 135		нідн 151			MEDIUM			LOW	
	Releases						Search Text		٩	+ NEW RELEAS	E 7
	1 found SELECT ALL									Display: 25	50 100
&» ۱	START SCAN RELEASE	COPY STATE SOURCE RELEASE	Production Poll		CRITICAL 135	# ISSUE	MEDIUM	LOW 74			

3. Click Start Scan for the release that you want to have assessed and select Static from the menu.



The Static Scan Setup page appears.

Static Scansely Subscinction Solution	=	WebGoat (.NET) > 5.4		
Assessment Type (choose One) The service level objective (SLO) for this assessment is business day(S) Pacfic Standard Time [®] Entitlement (choose One) Source or Compiled Code/Files [®] Source Control Technology Stack IMVAUUUEER/Contin Control Cont		Static Scan Setup ®		
[Choose One) The service level electrice (SLO) for this assessment is business day(s) Pacific Standard Time [®] Entitlement [Choose One) Source or Compiled Code/Files [®] JAV/JJZEE/Kollin JAV/JJZEE/Kollin Ja Onen Source Component Analysis Onen Source Component Analysis Onen Source Component Analysis produces an application bill of materials detailing a list of identified components and risks. The analysis leverages Open Source Component Analysis wereages Open Source Component Analysis wereages Open Source Component Analysis wereages Open Source Component and value is now vince/file (Vince Vince) Dem Source Component Analysis groduces an application bill of materials detailing a list of identified Components and risks. The analysis leverages Open Source Component analysis wereages Open Source Component and value is now vince/file vince vince/file vince/vince/file vince vince/file vince	⊕	Static Scan Details	986 Unit(s) Available	
The service level objective (SLO) for this assessment is business day(s) Pacific Standard Time [®] Entitiement Choose One) Source or Compiled Code/Fries [®] Source Control Technology Stack AVA/JZEE/Kotlin C Def Source Component Analysis C Open Source Component Analysis Open Source Component Analysis Open Source Component Analysis Open Source Component Analysis Component Analysis Def Source Component Analysis Def So	୧	Assessment Type		
Entitlement (Choose One) Source or Compiled Code/Files ** Source Control Choose Source Compiled Code/Files ** International Code/Files ** I		(Choose One)	~	
Source or Compiled Code/Files ® Source Control Technology Stack JAVA/JZEE/Kotlin Canguage Level 1.8 Open Source Component Analysis Den Source	/> €			
Source Control Technology Stack	È	(Choose One)	*	
Technology Stack JAVA/JZEE/Korlin Language Level 1.8 Open Source Component Analysis Open Source Component Analysis produces an application bill of materials detailing a list of identified components and risks. The analysis leverages Open Source Component Analysis source issues, and will be included in your vulnerabilities in the identified Open Source components are added to the release as Open Source issues, and will be included in your vulnerability count and risk rating. Mere: Refer to the Debricked ocumentation for the list of required files to be submitted in the payload (JAR and Class Files). Select this option ONLY If you are unable to supply full source code. WARNING: Selecting this option may result in increased scan line and increased false positive: False positive reduction can not be performed without source code. Binary Scanning is not supported when the payload is created with ScanCentral. Assessments created with Scan Central payloads will be neglected if this option is enabled: Audit Preference Manual Manual Audit preference determines whether a security expert will manually review the scan results for overall quality and to remove false positive. Selecting Automated audit for the first scan of an application or release of the manual audit. Release ID Build Server Integration Token	_	Source or Compiled Code/Files $^{\textcircled{0}}$		
JAVAJZEE/Korlin Language Level 1.8 Open Source Component Analysis Open Source Component Analysis Open Source Component Analysis Depen Source Component Analysis Manual Source Source Component Analysis Image: Source Source Component Analysis Open Source Component Analysis produces an application bill of materials detailing a list of identified Open Source components are added to the release as Open Source Issues, and will be included in your vulnerability count and risk rating. Merc Refer to the Debricked documentation for the list of required files to be submitted in the payload for a successful Debricked scan. ® Source Source Component Analysis Secting this option NUL 2014 you are unable to supply that source code. WARNING: Selecting this option may result in Increased scan time and Increased false positives. False positive reduction can not be performed without source code. Binary Scanning is not supported when the payload is created with ScanCentral. Assessments created with Scan Central payloads will be rejected if this option is evaluated. Audit Preference Manual Manual V Audit preference determines whether a security expert will manually review the scan results for overall quality and to remove false positive. Selecting Automated audit for shorter trunaround time. We recommend a manual audit for the first scan of an application or release with major changes. with subsequent scans using automated audit for shorter	33	Source Control	~	
Language Level 1.8 Open Source Component Analysis Open Source Source Source Source Source Components are added to the release as Open Source S		Technology Stack		
1.8 • Open Source Component Analysis Component Analysis produces an application bill of materials detailing a list of identified components and risks. The analysis leverages Open Source Composition Analysis tool, but no code leves the Portify on Demand environment. The known public vulnerabilities in the identified Open Source components are added to the release as Open Source Camponent Analysis produces documentation but not the list of required files to be submitted in the payload for a successful Debricked scan. ⁽⁹⁾ Image: Refer to the Debricked documentation for the list of required files to be submitted in the payload for a successful Debricked scan. ⁽⁹⁾ Image: Seecting this option will allow the translation and scanning of tenant supplied binary files in the payload (JAR and Class Files). Select this option ONLY if you are unable to supply full source code. WARNING: Selecting this option may result in increased scan time and increased false positives. False positive reduction can not be performed without source code. Binary Scanning is not supported when the payload is created with ScanCentral. Assessments created with Scan Central payloads will be rejected if this option is exabled. ¹ Audit Preference Manual • Manual • Audit preference determines whether a security expert will manually review the scan results for overall quality and to remove false positives. Selecting Automated audit for shorter trunaround time. We recommend a manual audit for the first scan of an application or release with major changes, which can reduce the trunaround time. We recommend a manual audit for the first scan of an application or release of the manual audit. Release ID Build Server In		JAVA/J2EE/Kotlin	~	
1.8 • Open Source Component Analysis Component Analysis produces an application bill of materials detailing a list of identified components and risks. The analysis leverages Open Source Components are added to the release as Open Source Issues, and will be included in your vulnerability count and risks rating. More Refer to the Debricked documentation for the list of required files to be submitted in the payload for a successful Debricked scan. [®] Secting this option will allow the translation and scanning of tenant supplied binary files in the payload (JAR and Class Files). Sector this option ONLY If you are unable to supply full source code. WARNING: Selecting this option may result in increased scan line and increased false positives. False positive reduction can not be performed without source code. WARNING: Selecting this option may result in foreased scan line and increased false positives. False positive reduction can not be performed without source code. WARNING: Selecting this option may result in foreased scan line and increased false positives. False positive reduction can not be performed without source code. WARNING: Selecting this option may result in ScanCentral. Assessments created with Scan Central payloads will be rejected if this option is enabled. Audit Preference Manual • Manual • Release ID Build Server Integration Token		Language Level		
Open Source Component Analysis produces an application bill of materials detailing a list of identified components and risks. The analysis leverages Open Source Composition Analysis tool, but no code leaves the Forthy on Demand environment. The known public vulnerabilities in the identified components are added to the release as Open Source Sources, and will be included in your vulnerability count and risk rating. Merri: Refer to the Debricked documentation for the list of required files to be submitted in the payload for a successful Debricked scan. ⁽¹⁾ Selecting this option will allow the translation and scanning of tenant supplied binary files in the payload (JAR and Class Files). Select this option ONLY If you are unable to supply full source code. WARRING: Selecting this option may result h increased scan time and increased false positive reduction can not be performed without source code. Binary Selecting this option will allow the translation and scanning of tenant supplied binary files in the payload (JAR and Class Files). Select this option ONLY If you are unable to supply full source code. WARRING: Selecting this option may result h increased scan time and increased false positive reduction can not be performed without source code. Binary Audit Preference Manual Audit Preference determines whether a security expert will manually review the scan results for overall quality and to remove false positives. Selecting hautomated audit will automatically suppress new issues identified as false positive by Audit Asstant with this confidence and publics the result scan educe the furnaround times. False positive challenges can only be requested for issues introduced with subsequent scans using automated audit for shorter furnaround times. False positive challenges can only be requested for issues introduced during a scan with maker audit. Release ID			~	
Release ID Build Server Integration Token		Open Source Component Analysis produces an application bill of materials detailing a list of identified components and risks. The analysis le Analysis tool, but no code leaves the Fortity on Demand environment. The known public vulnerabilities in the identified Open Source compon Open Source issues, and will be included in your vulnerability count and risk rating. Netre: Refer to the Debricked documentation for the list of required files to be submitted in the payload for a successful Debricked scan. If the Debricked documentation for the list of required files to be submitted in the payload for a successful Debricked scan. If the Debricked documentation for the list of required files to be submitted in the payload (JAR and Class Files). Select this op Selecting this option will allow the translation and scanning of tenant supplied binary files in the payload (JAR and Class Files). Select this op supply full source code. WARNING: Selecting this option may result in increased scan time and increased false positive: False positive reduce source code. Binary Scanning is not supported when the payload is created with ScanCentral. Assessments created with Scan Central payloa enabled. ⁺¹ Audit Preference Manual Audit preference determines whether a security expert will manually review the scan results for overall quality and to remove false positives automatically suppress new issues identified as false positives by Audit Assistant with high confidence and publis the results without huma	tion ONLY if you are unable to fion can not be performed without as will be rejected if this option is Selecting Automated audit will n review, which can reduce the	
		turnaround times. False positive challenges can only be requested for issues introduced during a scan with manual audit.		
4857 (No token could be generated based on current criteria)		Release ID Build Server Integration Token		
		4857 (No token could be generated based on cu	urrent criteria)	

4. Click Start Scan.

Note: If the application has an active static scan, you are blocked from starting another scan.

The Start Static Scan window opens.

5. Perform the relevant task based on your method of upload:

Method of Upload	Procedure

Manual upload	Start Static Scan	×
manualupioau	Upload Payload Summary	Source code, bytecode, and/or binary files (zip) Note This note is for customer reference only. It is not used during the assessment.
	a. Click . b. Navigate to	BACK NEXT START SCAN
Source Control		:h or Release from the Source Location list. becific branch or release.

- 6. In the **Note** field, type a description of the application.
- 7. Click **Next**.

A summary of the static scan setup values appears.

8. Review the summary. If necessary, click **Back** and make any corrections. If the values are correct, click **Start Scan**.

Once the upload of the zip file is complete, you are redirected to the Release Scans page; your new scan status is **Queued**. The scan will begin once it moves to the front of the queue.

Related Topics

In addition to using the portal, you can submit a static assessment using the following methods:

- IDE plugin tools: Visual Studio Extension, Eclipse Plugin, IntelliJ Plugin, Fortify Extension for Visual Studio Code. For more information, see "IDE Tool" on page 329.
- Build server integration tools: FoDUploader, Fortify Azure DevOps Extension, Fortify on Demand Jenkins Plugin. For more information, see "CICD Tool" on page 331.
- Fortify on Demand API. For more information, see "Fortify on Demand API" on page 316.

Static Assessment Payload Validation

After the payload has been uploaded, Fortify on Demand performs the following payload validation checks to ensure that the requirements have been met for the static testing team to start a static assessment:

- The zip file is valid and not corrupt.
- The payload contains file extensions that are supported by Fortify Static Code Analyzer. Supported file extensions are: ABAP, abap, appxmanifest, as, asax, ascx, ashx, asmx, asp, aspx, baml, bas, bicep, BSP, bsp, cbl, cfc, cfm, cfml, class, cls, cob, conf, Config, config, cpx, cs, cscfg, csdef, cshtml, ctl, ctp, dart, dll, Dockerfile, dockerfile, erb, exe, frm, go, hcl, htm, html, inc, ini, jar, java, jmod, js, jsff, json, jsp, jspf, jspx, jsx, kt, kts, Master, master, mbs, mxml, page, php, phtml, pkb, pkh, pks, plist, properties, py, razor, rb, scala, settings, sol, sql, swift, tag, tagx, tf, tld, trigger, ts, tsx, vb, vbhtml, vbs, vbscript, wadcfg, wadcfgx, winmd, wsdd, wsdl, xaml, xcfg, xhtml, xmi, xml, xsd, yaml, yml.
- For .NET applications, the payload contains .dll or .exe files.
- For Java and Kotlin applications, the payload contains .class, .java, .jar, .jsp, .kt, ,.ktm, or .kts files.
- A Fortify ScanCentral SAST-packaged payload does not have the **Scan Binary** scan setting enabled.
- For Python microservice applications, the payload is packaged using the Fortify ScanCentral SAST client.
- For technology stacks that require a mobile build session (MBS) file to be submitted, the payload contains only one .mbs file.
- For tenants that have enabled the source code inclusion requirement, the payload contains files in the following file formats:

Technology Stack	Source File Extension
.NET	.cs, .vb
ABAP	.abap
ASP	.asp
CFML	.cfm, .cfml, .cfc
COBOL	.cbl, .cob, .ccp, .cb2
Dockerfile/Infrastructure as Code	.dockerfile, .json, .xml, .tf, .yaml, dockerfile
Go	.go
JAVA/J2EE/Kotlin	.java, .kt, .ktm, .kts

JS/TS/HTML	.xsd, .xmi, .wsdd, .config, .cpx, .xcfg, .js , .ts
РНР	.php
PYTHON	.ру
VB6	.vbs, .bas, .frm, .ctl, .cls
VBScript	.vbscript
Ruby	.rb

If any of the requirements is not met, the scan is automatically canceled and an email indicating the cancellation reason is sent. Upon acceptance of the file, the code is transferred to a secure server and analyzed.

Open Source Software Composition Analysis

Fortify on Demand offers open source software composition analysis in c with static assessments or as a separate assessment. Applications are scanned using one of the following software composition analysis tools:

- Debricked (offered with static assessments and as a separate assessment)
- Sonatype (offered with static assessments, not available for purchase)

The following languages are supported: C# (.NET), Go, Java, JavaScript, Kotlin, Objective-C, PHP, Python, Ruby, and Swift.

To enable open source software composition analysis, purchase Debricked entitlements through Fortify on Demand. An entitlement is redeemed for a Debricked subscription per application. While the static scan is in progress, the software composition analysis tool checks for open source components in the payload. Open source scan results list identified open source components and associated security issues.

If you are interested in purchasing Debricked entitlements, contact your sales representative.

This section contains the following topics:

Preparing Open Source Assessment Files	116
Uploading an Open Source Assessment Payload Through the Portal	. 119
Viewing Open Source Components in a Release	120
Viewing Open Source Components in a Tenant	122
Sonatype Integration End of Life	123

Preparing Open Source Assessment Files

For open source scanning, the files that are required in the payload depend on the software composition analysis tool that is being used.

Debricked File Requirements

Debricked software composition analysis identifies direct and transitive dependencies (components) along with the associated security issues and licenses. To reliably detect dependencies, Debricked uses one of the following approaches depending on the build system or package manager:

- Some package managers use a lock file to describe dependencies in a project (such as npm). Package managers usually automatically generate lock files. Debricked supports scanning dependencies using native lock files.
- For build systems or package managers or build systems that don't use a lock file (such as Maven and Gradle), Debricked requires a file describing the resolved dependency tree to be generated using the functionality of the build system or package manager. This file is referred to as a Debricked lock file.

You can use one of the following methods to generate both native lock files and Debricked lock files:

- (Recommended) Use the Fortify ScanCentral SAST client (22.1.2 or later) to generate the lock files along with the application files. Simply include the -oss option in the package comman. Note that package generation is not dependent on successfully packaging the lock files.
- (Recommended) Use the Debricked CLI to generate the lock files independently of the application files. For installation and usage instructions, see README.FoD.md at https://github.com/debricked/cli.
- Manually generate the lock files.

Tip: If you are manually generating the Debricked lock files for Go modules and Gradle/Maven projects, automate this process by adding the appropriate command to your CICD pipeline.

The following table describes the file requirements for Debricked scanning in Fortify on Demand.

Important! A Debricked scan is canceled if the required lock file is not present in the payload.

Language	Package Manager	Required File	Notes
C#	NuGet	packages.lock.json	Set the MSBuild property RestorePackagesWithLockFile to true in the .csproj project file and run the Nuget restore

Language	Package Manager	Required File	Notes
			command. For more information, see Enable repeatable package restores using a lock file. Alternatively, use the Debricked CLI to generate packages.lock.json without setting RestorePackagesWithLockFile.
	Paket	paket.lock	paket.lock is automatically generated by Packet.
Go	Go Dep	gopkg.lock	gopkg.lock is automatically generated by dep.
			Note: Go Dep updates will not be made as Go Dep is deprecated.
	Go modules .debricked-go- dependencies.txt gomod.debricked.lock		For instructions on generating the resolved dependency tree file, see Go - Go Modules, Go Dep, Bazel.
			Note: .debricked-go- dependencies.txt is generated by the Fortify ScanCentral SAST client, gomod.debricked.lock is generated by the Debricked CLI.
Java/Kotlin	Bazel	WORKSPACE	WORKSPACE is automatically generated by Bazel.
		(Recommended) maven_ install.json	Use rules_jvm_external to generate maven_install.json, where all dependencies are pinned to their respective versions. For more information, see A repository rule for calculating transitive Maven dependencies.

Language	Package Manager	Required File	Notes
	Gradle	.debricked-gradle- dependencies.tgf gradle.debricked.lock	For instructions on generating the resolved dependency tree file, see Java & Kotlin - Gradle, Maven and Bazel.
			Note: .debricked-gradle- dependencies.txt is generated by the Fortify ScanCentral SAST client, gradle.debricked.lock is generated by the Debricked CLI.
	Maven	.debricked-maven- dependencies.tgf maven.debricked.lock	For instructions on generating the resolved dependency tree file, see Java & Kotlin - Gradle, Maven and Bazel.
			Note: .debricked-maven- dependencies.txt is generated by the Fortify ScanCentral SAST client, maven.debricked.lock is generated by the Debricked CLI.
JavaScript	npm	package-lock.json	The npm install command automatically generates package- lock.json unless disabled in a .npmrc file. The npm install package-lock-only command generates package-lock.json without checking node_modules and downloading dependencies.
	Yarn	yarn.lock	yarn.lock is automatically generated by Yarn.
Objective-C	Cocoapods	podfile.lock	podfile.lock is automatically generated by Cocoapods.

Language	Package Manager	Required File	Notes
РНР	Composer	composer.lock	composer.lock is automatically generated by Composer.
Python	рір	<file_ name> .pip.debricked.lock</file_ 	For instructions on generating the resolved dependency tree file, see Python - Pip.
	Pipenv	Pipfile.lock	Pipfile.lock is automatically generated by Pipenv based upon the virtual environment for the project.
Ruby	RubyGems	Gemfile.lock	Gemfile.lock is automatically generated by RubyGems.
Swift	Cocoapods	podfile.lock	podfile.lock is automatically generated by Cocoapods.

In keeping with industry best practices, you should commit lock files to the source control repository. This simplifies the process of preparing application files, especially if you are not using Fortify ScanCentral SAST client to package the payload.

Sonatype File Requirements

For information on the file requirements for Sonatype scans, see https://help.sonatype.com/iqserver/analysis.

Uploading an Open Source Assessment Payload Through the Portal

The method of uploading an open source payload depends on whether the open source assessment is included with the static assessment or is run separately:

- Configure your static scan settings to include an open source scan and include the files required for open source scanning in your static assessment payload. This method is available for both Debricked and Sonatype. For more information, see "Configuring a Static Scan" on page 107.
- Upload a native or Debricked lock file and submit a Debricked-only scan. The following instructions describe how to submit a Debricked-only scan for a lock file.

Note: You can submit a Debricked-only scan on third-party software bill of materials. For more information, see "Importing a Software Bill of Materials" on page 342.

To scan:

1. Select the **Applications** view.

Your Applications page appears.

2. Click the name of the application.

The Application Overview page appears.

=	Web	Goat (.NET)										
	Polic	y Compliance		Issues In Production								
\oplus		* 🌣 🌣 🏠	ζ	CRITICAL		HIGH			MEDIUM		LOW	
Ø		FAIL		135		151			11			
€												
5	Rele	eases							Search Text	۹	+ NEW RELEAS	
PDF	1 fou	und									Display: 25	50 100
£03	SELE	CT ALL										
2~		START SCAN	RELEASE	COPY STATE SOURCE RELEASE	SDLC STATUS	POLICY COMPLIANCE		# ISS	UES	STATIC	OPEN SOURCE	DYNAMIC
		START SCAN ▷	5.4		Production	FAIL	CRITICAL	HIGH 151	MEDIUM LOW		Θ	\otimes

- 3. Click Start Scan for the release that you want to have assessed and select Open Source.
 - ✓> Static
 ④ Open Source
 ⊕ Dynamic
 START SCAN ▷ 5.4

The Open Source Scan window appears.

Start Open Source Scan	×
Run a Debricked open source scan to generate a Software Bill of Ma Debricked documentation for the files required in the payload. Select File (.zip)	terials. Refer to the
CANCEL	

- 4. Click
- 5. Navigate to and select your zip file containing the lock file. The zip file can contain either the static assessment payload or just the lock file.
- 6. Click Start Scan.

Once the upload of the zip file is complete, you are redirected to the Release Scans page; your new scan status is **Queued**. The scan will begin once it moves to the front of the queue.

Viewing Open Source Components in a Release

You can view open source components found in the most recent scan for a release.

To view open source components for a release:

1. Select the **Applications** view.

Your Applications page appears.

2. Click Your Releases.

Your Releases page appears.

3. Click Open Source Components.

The Open Source Components page appears.

=	WebGoat > 8.0									
	Open Source Components START SCAN EXPORT All × Search Text									۹
\$ ©	27 6 Components Identified Security Issues (Info Excluded) Affecting 4 components									
> ⊕	27 found	VERSION	ТҮРЕ		KNOWN PUBLIC	/ULNERABILITIES		LICENSE	SCAN TOOL	Display: 25 50 100
PDF				U	U	2	U			
	@coding-blocks/bootstrap	4.2.1-cb1	a-name	CRITICAL 0	HIGH 0	MEDIUM 1	LOW 0	MIT	sonatype	٥
103 203	jquery	1.10.2	a-name	CRITICAL 0	HIGH 0	MEDIUM 1	LOW O	MIT	sonatype	Ü
	ace-builds	1.4.1	a-name	CRITICAL 0	HIGH 0	MEDIUM 0	LOW O	BSD	sonatype	Ċ
	backbone	1.2.0	a-name	CRITICAL 0	HIGH 0	MEDIUM 0	LOW O	MIT	sonatype	ů
	code-editor-module	0.0.26	a-name	CRITICAL 0	HIGH 0	MEDIUM 0	LOW O	MIT	sonatype	۵
	codemirror	5.27.0	a-name	CRITICAL 0	HIGH 0	MEDIUM 0	LOW O	MIT	sonatype	ů

4. If results from multiple scan tools are available, select the source whose results you want to view from the drop-down list.

The page refreshes with results from the selected source.

The following table describes how to navigate the Open Source Components page.

Task	Action
Export the open source component list	Click Export . A link to download a CSV file is sent to the email address specified in your account settings. The link is valid for 7 days from the time the email is sent.
View results from specific scan tool	Select the scan tool results you want to view from the drop-down list.
Search the open source component list	Type a keyword or phrase in the search text field and press Enter .
View issues filtered by package URL	Click the issue counts in each component row.

Viewing Open Source Components in a Tenant

Users with the **View Third Party Apps** permission can view a tenant-wide summary of all identified open source components and the applications utilizing them.

To view open source components across a tenant:

1. Select the **Applications** view.

Your Applications page appears.

2. Click Open Source Components.

The Open Source Components page appears.

	Open Source Compon	ents 🔊							Sonatype V Sea	arch Text	۵
⊞ ₽	27 found									Disp	lay: 25 50 100
© &	COMPONENT	PACKAGE URL	2.2.4	a-name	CRITICAL 0	HIGH 0	VULNERABILITIES	LOW 0	MIT	RELEASES	VIEW RELEASES
~	org.webjars bootstrap		3.1.1	a-name	CRITICAL 0	HIGH 0	MEDIUM 2	LOW O	Apache-2.0	1	VIEW RELEASES
	@coding-blocks/bootstrap		4.2.1-cb1	a-name	CRITICAL 0	HIGH 0	MEDIUM 1	LOW 0	MIT	1	VIEW RELEASES
	jquery		1.10.2	a-name	CRITICAL 0	HIGH 0	MEDIUM 1	LOW 0	МІТ	1	VIEW RELEASES
	ace-builds		1.4.1	a-name	CRITICAL 0	HIGH 0	MEDIUM 0	LOW 0	BSD	1	VIEW RELEASES
	backbone		1.2.0	a-name	CRITICAL 0	HIGH O	MEDIUM 0	LOW O	MIT	1	VIEW RELEASES
	code-editor-module		0.0.26	a-name	CRITICAL 0	HIGH 0	MEDIUM 0	LOW O	MIT	1	VIEW RELEASES

Note: Open source scan results from retired releases are excluded.

The following table describes how to navigate the Open Source Components page.

Task	Action
Export the open source component list	Click Export . A link to download a CSV file is sent to the email address specified in your account settings. The link is valid for 7 days from the time the email is sent.
View results from specific scan tool	Select the scan tool results you want to view from the drop-down list.
Search the open source component list	Type a keyword or phrase in the search text field and press Enter .
View the applications and corresponding releases that use a component.	Click View Releases in the row of a component.

Sonatype Integration End of Life

Fortify on Demand will remove the Sonatype open source software composition analysis offering in 2024. Data from Sonatype scans will be deleted in Fortify on Demand on January 31st, 2024.

Tenants that need to retain their Sontype scan data can perform the followings to migrate their data:

- Export the open source component list on the Open Source Component pages. The download is a CSV file.
- Run issue data exports filtered to include only open source issues.
- Tenants can have active Debricked and Sonatype entitlements at the same time in order to facilitate a one-time switch from Sonatype to Debricked. This switch applies per release. For more information, see "Editing Release Settings" on page 66.

For releases that have switched from Sonatype to Debricked, upon completion of the first Debricked scan, Sonatype issue audit entries, comments, and evidence are copied over to Debricked issues that have matching CVE values. Sonatype data will not be copied over to subsequent Debricked scans.

• Contact support to request a one-time download of Sonatype issues.

Dynamic Assessments

A dynamic assessment analyzes a running web application for security vulnerabilities. Dynamic assessments include automated testing powered by Fortify WebInspect, manual analysis, and Continuous Application Monitoring.

Dynamic testing using Fortify WebInspect involves the following modes:

- Crawl, the process by which Fortify WebInspect identifies the structure of the target website
- Audit, the actual vulnerability scan

This section contains the following topics:

Preparing the Website for Dynamic Testing	
Preparing Web API Files	
Setting Up Fortify on Demand Connect	
Configuring a Dynamic Scan	
Scheduling the Dynamic Scan Through the Portal	
Editing Dynamic Scan Settings for Ongoing and Completed Scans	
Continuous Application Monitoring	
Configuring Application Monitoring	
Canceling an Application Monitoring Scan	

Viewing Application Monitoring Issues	
Viewing Risk Profile Results	152

Preparing the Website for Dynamic Testing

For all dynamic assessments, make the following preparations to facilitate the testing process:

- Confirm that the web application and user credentials are functioning before the assessment. If the web application uses client certificate authentication, contact support.
- Disable all multi-factor authentication controls for the duration of the testing window. This includes secondary authentication mechanisms such as SMS messages, email verifications, CAPTCHA, OATH Tokens, and physical tokens. Alternatively, the assessment can be performed unauthenticated to evaluate the security of the application content available to unauthenticated users.
- Complete all functional and performance testing before the assessment and freeze the application's code for the duration of the testing window.
- As a standard precaution, Fortify recommends that you back up all of your data before beginning the testing process. When testing is complete, restore your data from a backup that is known to be good to avoid any chance of data corruption.
- Add the Fortify on Demand IP addresses to the allow list in firewalls, IPSs, IDSs, and WAFs to ensure the application can be scanned by the dynamic testing team. You can obtain the IP addresses from the Dynamic Scan Setup page in the portal. Adhoc addresses may be used with your consent only when conditions necessitate it.
- Provide the Fortify on Demand IP addresses to your security operations and network operations teams, so they know not to block the IP addresses if they see attacks being submitted against the site, which are part of planned recurring security scanning.
- As long as your website is accessible through the http/https default ports (80/443), you do not need to open any additional ports for the assessment.

For dynamic assessments that utilize automation during the scanning process, make the following preparations:

- Create workflow macros to run scans as Workflow-Driven Scans. A workflow macro is a recording of HTTP events when you navigate a Web site using a Web Macro Recorder tool. You can create workflow macros with Fortify WebInspect's Event-based Web Macro Recorder, available on the Tools page in the portal. For instructions on creating workflow macros, see the *Fortify WebInspect Tools Guide* at Fortify WebInspect Documentation.
- Create login macros for authentication. A login macro is a recording of the events that occur when you access and log in to a Web site using a Web Macro Recorder tool. You can create login macros with Fortify WebInspect's Event-based Web Macro Recorder, available on the Tools page in the portal. For instructions on creating login macros, see the *Fortify WebInspect Tools Guide* at Fortify WebInspect Documentation.

Preparing Web API Files

If a dynamic assessment includes web API testing, you need to provide project files with working sample data for proper security testing. Prepare project files according to the following guidelines.

Note: If you do not have project files with working sample data, ask your QA and development teams for assistance in obtaining these files. They usually have collections of these files for testing web API functions.

REST

• Provide an API definition, such as an OpenAPI document file or URL or Postman collection file or URL.

Note: Postman environment files are not supported.

- Requests must include valid parameter values to establish the baseline application behavior.
- If your API requires authentication, provide credentials that will be valid during the testing period.
 - If you are providing a Postman collection, configure authentication in the Postman collection.

Note: Dynamic authentication is not supported.

• If you are providing an OpenAPI document, provide the credentials on the Dynamic Scan Setup page.

SOAP

- Provide a Web Service Definition Language (WSDL) file or URL.
- Provide request and response pairs in text or XML format or as a SoapUI project or Postman collection file.
- Requests must include valid parameter values to establish the baseline application behavior.
- If your API requires authentication, provide credentials that will be valid during the testing period.
- If you are submitting a SoapUI project or Postman collection file, configure authentication in the project file. You can also provide the information in the **Additional Notes** or **Additional Documentation** fields.

gRPC

• Provide a proto file. If additional imports are needed, they must be combined with the primary proto file into a "master" proto file. gRPC proto files must be self-contained. Any imports must be to internally recognized resources and not to user-generated files. Fortify WebInspect cannot identify file paths from imported proto files.

GraphQL

• Provide a GraphQL introspection file or URL. The GraphQL API must have introspection enabled to download the schema contents for the scan.

Examples

The following examples show project files with working sample data.

Note: Only input parameter values need to be provided—the responses are shown here for information only.

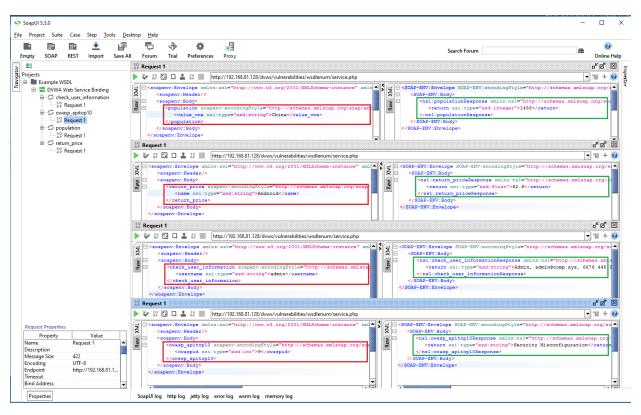
Example 1 (REST)

The following example shows a RESTful API endpoint that has been loaded in the Postman UI. The endpoint handles authentication for an application. The screen shows a request with the correct username and password input values (framed in red) and the response from the application (framed in green).

	-	- 🗆 ×
Runner Import	Builder Team Library 🔅 🧿 SYNC OFF Sign In 🚱	• •
Q Filter	https://reqres.in/api/ https://reqres.in/api/ https://reqres.i × + ••••	~ © \$
History Collections	▶ https://reqres.in/api/login	Examples (0) 🔻
Postman Example	POST V https://reqres.in/api/login Params Send V	Save \vee
3 requests	Authorization Headers (1) Body Pre-request Script Tests	Code
GET https://reqres.in/api/register POST https://reqres.in/api/register	● form-data ● x-www-form-urlencoded ● raw ● binary JSON (application/json) ∨ 1 {"email":"peter@klaven", "password":"cityslicka"}	
POST https://reqres.in/api/login	[] [] emoil : peterekiaven , passworu : citysiitka]	
	Body Cookies Headers (9) Tests Status: 200 OK	Time: 278 ms
		Save Response
	1 * { 2 "token": "QpwL5tke4Pnpja7X " 3 }	

Example 2 (SOAP)

The following example shows a WSDL file that has been loaded in the SOAPUI UI and updated with working parameter values. The screen shows four requests with the correct input values (framed in red) and the corresponding responses from the web service (framed in green).



Setting Up Fortify on Demand Connect

You can use Fortify on Demand Connect to easily set up site-to-site VPN for dynamic assessments of internally facing web applications. Fortify on Demand Connect implements an OpenVPN server and client configuration to create secure site-to-site connections. You need to install the OpenVPN client, available as a Docker container.

Note: Fortify on Demand Connect is currently available in the AMS environment. If your tenant is not in the AMS environment, you can preview Fortify on Demand in a sandbox environment. Contact support if you are interested in trying out Fortify on Demand Connect.

The following instructions assume that you have familiarity with installing, configuring, and using Docker.

To set up Fortify on Demand Connect:

- 1. Pull the Fortify on Demand Connect Docker image on Docker Hub. Access to the Fortify Docker repository requires credentials and is granted through your Docker ID. To access the Fortify Docker repository, email your Docker ID to mfi-fortifydocker@opentext.com.
- 2. Install the Docker container on a Linux x86_64 machine. The machine must meet the following requirements:

- Minimum supported Docker Engine version: 20.10.17
- Access to the internally facing application
- 3. (Security Leads) Add a Fortify on Demand Connect network in Fortify on Demand. See "Adding a Fortify on Demand Connect Network" on page 265.
- 4. (Security Leads) Copy the docker command for the network and run it on the machine before the dynamic scan is scheduled. The following is an example docker command:

```
docker run --name fdc_client -d \
    -e "FDC_ADDRESS=35.155.176.67:443" \
    -e "FDC_UNAME=fodconnect_username" \
    -e "FDC_UPSWD=fodconnect_password" \
    -e "FDC_PROXY=3128" \
    --privileged fortifydocker/fortify-connect:23.1.0.5.alpine.3.17
```

The container ID is returned if the docker command was successful.

Configuring a Dynamic Scan

After preparing your web application for a dynamic assessment, you need to complete the Dynamic Scan Setup page. You only need to configure the dynamic scan settings once per release as the settings are carried over to the next scan. You can edit settings as needed for subsequent assessments.

Note: Dynamic scan settings prior to 22.4 were saved at the application level. Save or update existing dynamic scan settings to have them saved at the release level.

To configure a dynamic scan:

1. Select the Applications view.

Your Applications page appears.

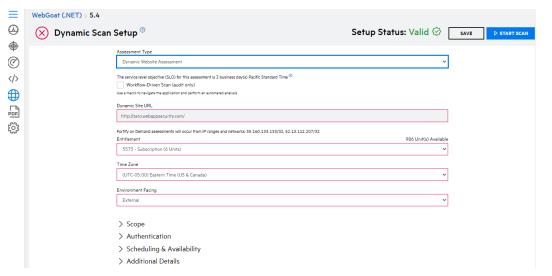
2. Click the name of the application.

The Application Overview page appears.

\equiv	WebGoat (.NET)										
 ♦ ♦ ♦ ♦ 	Policy Compliance ★☆☆☆☆ FAIL view	Issues In Production CRITICAL 135		нкн 151			MEDIUM			LOW 74	
U	Releases						Search Text		۹	+ NEW RELEAS	e 7
CH 503	1 found SELECT ALL									Display: 25	
₽ ■	START SCAN RELEASE START SCAN ▷ 5.4	COPY STATE SOURCE RELEASE	Production	POLICY COMPLIANCE	CRITICAL	# ISSU	MEDIUM 11	LOW 74			

3. Click Start Scan for the release that you want to have assessed and select Dynamic.

The Dynamic Scan Setup page appears.



4. Complete the required fields. All other fields are optional or set to default values.

Field	Assessment Type	Description
Assessment Type		Select the assessment type. Only assessment types allowed by the organization's security policy are displayed. The SLO of the selected assessment type appears
		below the field.
		Note: The Dynamic+ API assessment is used for testing a web API where a definition file is not available.
Scan Type	DAST Automated	Select the dynamic scan type.:
		 Website: this scan is similar to a Dynamic Website scan.
		• Workflow-Driven Scan: this scan is similar to a Dynamic Website scan that utilizes a workflow macro.
		• API: this scan is similar to a Dynamic API scan.
Dynamic Site URL	 All Website types API+ 	Provide your site's URL.

Field	Assessment Type	Description
Workflow- Driven Scan	 Website (Optional) DAST Automated: Workflow-Driven Scan 	A Workflow-Driven Scan uses the audit only mode (no crawling) and is completely automated. Fortify WebInspect audits only those URLs recorded in the macro and does not follow any hyperlinks encountered during the audit. For the Website assessment, you need to select the check box to run the scan as a Workflow-Driven Scan. Upload the workflow macro (see "Preparing the Website for Dynamic Testing" on page 124). Supported macros are .webmacro files, Burp Proxy captures, and .har files.
		Note: The application being scanned must be external facing. Activity recorded in a macro overrides other scan settings.
Entitlement		Select the entitlement that the assessment will use. The field displays entitlements that are valid for the selected assessment type, including those available for purchase. If the release has an active subscription, only options that do not consume entitlements are displayed.
		Note: Switching from Dynamic or Dynamic+ assessment to DAST Automated assessment does not consume assessment units. However, switching from DAST Automated assessment to another assessment consumes the cost of the new assessment.
Time Zone		Select your location's time zone, which is used to schedule the scan's start time.
Environment Facing		Select whether the site is internal or external.
Request False Positive Removal	DAST Automated	Request False Positive Removal [®] Select the check box to request false positive removal

Field	Assessment Type	Description
	by the testing team once per application.	
		Important! Login macro generation and false positive removal are an optional service that is available once per application and consumes 1 additional assessment unit.
		Important! If you want to request both login macro generation and false positive removal, you must select both options together; once a scan that includes either option has completed, both options will be disabled for subsequent scans.
Use Fortify on Demand Connect		Scanning internal environments requires setting up site-to-site VPN or Fortify on Demand Connect. ^(II) If Use Fortify Connect Network Fortify Connect Network Test_net V
		(Optional) If the site is internal, select the check box to use Fortify on Demand Connect to set up site-to-site VPN, and then select the Fortify on Demand Connect network that has been configured for the site. For more information, see "Setting Up Fortify on Demand Connect " on page 127.
		Important! A connection must be initialized between the VPN client and the VPN server before scheduling the scan.

5. If needed, you can configure additional scan settings in the sections appearing below the required fields. The sections that are available depend on the assessment type selected.

Scope (Dynamic Website, Dynamic+ Website, Dynamic+ API)

To edit the scope of the scan, click **Scope** and complete the fields as needed.

✓ Scope	
Fortify on Demand may scan the entire host of the designated URL. Other domains and subdomains will not be scanned during the assessment.	
Scan entire host (snas.nbcuni.com)	
Allow HTTP (:80) and HTTPS (:443)	
Allow form submissions during crawl ⁽²⁾	
Exclude URLs which contain	
	+
Include subdomain URLs	
	+

Field	Description		
Scan entire host (< <i>URL</i> >)	 Select one of the following options: Scan entire host (<url>) (default): the entire host will be scanned</url> 		
Restrict scan to URL directory and subdirectories	Example: Given https://foo.com/home, the following URLs will be included: https://foo.com/ https://foo.com/contact-us.html https://foo.com/folder/ https://foo.com/folder/folder2/page.aspx https://foo.com/home/folder/ https://foo.com/home/index.html Restrict the scan to the URL directory and subdirectories: only the directory denoted by the last slash in the URL and its subdirectories will be scanned. If you select this option, make sure the last slash denotes the directory to which you want the scan to be restricted. Example: Given https://foo.com/home/, the following URLs will be excluded: https://foo.com/ https://foo.com/folder/ https://foo.com/folder/ https://foo.com/folder/ 		
	 https://foo.com/folder/folder2/page.aspx 		
Allow HTTP (:80) and	Select the check box to allow both HTTP and HTTPS scanning of the site (default).		

Field	Description		
HTTPS (:443)	Example : Given https://foo.com/home, if the Scan entire host option is selected, http://foo.com/ and its subdirectories will be included. If the Restrict scan to URL directory and subdirectories option is selected, only http://foo.com/home and its subdirectories will be included.		
Allow form submissions during crawl	Select the check box to allow form submissions during the crawl of the site (default). This uncovers additional application surface area that can then be examined for a more thorough scan. Not selecting the check box does not prevent form submissions during vulnerability checks. Detection of many critical vulnerabilities, such as SQL injection and cross-site scripting, requires form submissions. To exclude specific web functionalities from form submissions, specify those URLS in the Exclude URLS that contain field.		
Exclude URLS that contain	(Optional) Provide a full or partial URL and click + to exclude URLs matching the string from being scanned. Add a new entry for each string. The field is not case-sensitive. Example : https://foo.com/login.html, login.html		
Include URLs	(Optional, Dynamic+ Website assessment) By default, Fortify on Demand does not scan URLs outside the provided top-level domain. To audit resources linked to the Dynamic Site URL domain, such as subdomains, APIs, and offsite resources, type the URL and click +. Add a new entry for each additional URL. Do not include URLs that are under the Dynamic Site URL domain, offsite domains, or third party applications.		
	 Example: Given https://foo.com/home, valid URLs include: www.foo.com (subdomain) API.aws.com (API) authfoo.com/login api.foo.com api.foo2.com 		

Scope (Dynamic Website as Workflow-Driven Scan)

To edit the scope of the scan, click **Scope**. A list of the hosts defined in the workflow macro appears. Select the hosts that will be scanned.

✓ Scope

When a macro runs it has a number of URLs that it pulls from that may not be obvious when building the macro. For example, each time an advertisment is shown on a page an external URL is associated with that advertisment. If you wanted your scan to execute checks against that site you would indicate that host name as an allowed host below

zero.webappsecurity.com:80 zero.webappsecurity.com:443

Scope (DAST Automated)

To edit the scope of the scan, click **Scope** and complete the fields as needed.

✓ Scope

Fortify on Demand may scan the entire host of the designated URL. Other domains and subdomains will not be scanned during the assessment.

Exclude URLs which contain

+

Enable Redundant Page Detection 💿

Compares the page structure to each crawled page to identify and exclude processing of redundant resources

Scan Policy Standard

Timebox Scan Duration (Hours) 🔊

Timeboxing a scan will limit the scanning activity to that duration.

Field	Scan Type	Description
Scan entire host (<i><url></url></i>)	Website	 Select one of the following options: Scan entire host (<url>) (default): the entire host will be scanned</url>
		Example: Given https://foo.com/home, the following URLs will be included: • https://foo.com/ • https://foo.com/contact-us.html • https://foo.com/folder/
		 https://foo.com/folder/folder2/page.aspx https://foo.com/home/folder/ https://foo.com/home/index.html Restrict the scan to the URL directory and

×

Field	Scan Type	Description
Destrict core to	_	subdirectories: only the directory denoted by the last slash in the URL and its subdirectories will be scanned. If you select this option, make sure the last slash denotes the directory to which you want the scan to be restricted.
Restrict scan to URL directory and subdirectories		Example : Given https://foo.com/home/, the following URLs will be excluded: • https://foo.com/
		 https://foo.com/folder/ https://foo.com/contact-us.html
		 https://foo.com/folder/folder2/page.aspx
Exclude URLS that contain		(Optional) Provide a full or partial URL and click + to exclude URLs matching the string from being scanned. Add a new entry for each string. The field is not case- sensitive.
		Example : https://foo.com/login.html, login.html
Enable Redundant page detection	 Website Workflow- Driven Scan 	Select the check box to enable comparison of page structure to determine the level of similarity, allowing the sensor to identify and exclude processing of redundant resources.
		Important! Redundant page detection works in the crawl portion of the scan. If the audit introduces a session that would be redundant, the session will not be excluded from the scan.
Scan Policy	Policies differ by scan type	Select the policy (collection of vulnerability checks and attack methodologies that the sensor deploys against a Web application):
		Standard : A standard scan includes an automated crawl of the server and performs checks for known and unknown vulnerabilities such as SQL Injection and Cross- Site Scripting as well as poor error handling and weak

Field	Scan Type	Description
		SSL configuration at the web server, web application server, and web application layers.
		Criticals and Highs : Use the Criticals and Highs policy to quickly scan your web applications for the most urgent and pressing vulnerabilities while not endangering production servers. This policy checks for SQL Injection, Cross-Site Scripting, and other critical and high severity vulnerabilities. It does not contain checks that may write data to databases or create denial-of-service conditions, and is safe to run against production servers.
		Passive Scan : The Passive Scan policy scans an application for vulnerabilities detectable without active exploitation, making it safe to run against production servers. Vulnerabilities detected by this policy include issues of path disclosure, error messages, and others of a similar nature.
		Api : The API policy contains checks that target various issues relevant to an API security assessment. This includes various injection attacks, transport layer security, and privacy violation, but does not include checks to detect client-side issues and attack surface discovery such as directory enumeration or backup file search checks. All vulnerabilities detected by this policy may be directly targeted by an attacker. This policy is not intended for scanning applications that consume Web APIs.
Timebox Scan Duration (Hours)	WebsiteAPI	Specify the maximum duration of the scan. If the scan is not completed at the end of the specified duration, the scan is terminated and partial results are available. If the scan is completed during the specified duration, then complete results are available. Incremental scanning is not supported.

Authentication (Dynamic Website, Dynamic+ Website, Dynamic+ API)

To edit the authentication settings, click **Authentication** and complete the fields as needed.

User Guide Chapter 4: Running Assessments

\checkmark Authentication		
Forms Authentication Required		
Primary Username	Primary Password	
		Ь
Secondary Username	Secondary Password	
	•	Ь
Network Authentication Required		

Additional Authentication Instructions

Field	Description
Form Authentication	(Optional) Select the check box if form authentication is required. Provide user names and passwords for at least two users. To add more credentials, use the Additional Notes field at the bottom of this form.
Network Required	(Optional) Select the check box if network authentication is required. Provide a username and password.
Additional Authentication Instructions	(Optional) Select the check box if additional authentication is required, such as an account number or tenant code, and type instructions.
	Important! Fortify on Demand does not support multi-factor authentication. Examples include authentication controls involving SMS messages, email verifications, CAPTCHA, OATH Tokens, and physical tokens.

Authentication (DAST Automated)

To edit the authentication settings, click **Authentication** and complete the fields as needed.

\sim Authentication $^{\textcircled{0}}$
Use Site Authentication
Request Login macro creation 💿
Login macros provide access to protected locations of your application. Therefore using a login macro is highly recommended to increase the coverage of your scan.
Please Upload your Login Macro File
UPLOAD Use Network Authentication
Authentication Type
Basic 🗸
Network Username Network Password

Field	Scan Type	Description	
Use Site Websit Authentication	Website	(Optional) Select the check box if site authentication is required. Upload the login macro (see "Preparing the Website for Dynamic Testing" on page 124).	
		Note: Make preparations so that the user credentials remain valid for the scan duration, such as increasing the password expiration duration. The scan will be canceled if site authentication fails.	
Request Login Website macro creation	Website	Select the check box to request generation of a login macro by the testing team once per application. Upon scan completion, the login macro will be available for download on the Scans page.	
		Important! Login macro generation and false positive removal are an optional service that is available once per application and consumes 1 additional assessment unit.	
		Important! If you want to request both login macro generation and false positive removal, you must select both options together; once a scan that includes either option has completed, both options will be disabled for subsequent scans.	
Use Network Authentication		(Optional) Select the check box if network authentication is required. Provide the authentication type, username, and password.	
		Note: The scan will be canceled if network authentication fails.	

APIs (Dynamic API, DAST Automated: API)

To add instructions for scanning web APIs utilized by the site, click **APIs**. For information on preparing web API project files suitable for automated testing, see "Preparing Web API Files" on page 125.

✓ APIs To help ensure quality results and avoid paused scans, please review the detailed instructions for API assessments.^⑦ API Type (Choose One)

a. Select the API definition type in the **API Type** field: **Postman Collection**, **OpenAPI**, **GraphQL**, **gRPC**.

Note: OpenAPI Specification versions 2.0 and 3.0 are supported.

~

b. Perform the relevant task based on your API definition type:

API Definition Type	Procedure
Postman	Click and browse to and select the Postman collection file. The JSON file format is accepted. If a file already exists, you can use the existing file or upload a new file.
OpenAPI	Select File or URL to the OpenAPI specification and perform the relevant task based on your selection.
	 File i. Click and browse to and select the OpenAPI document file. The JSON file format is accepted. If a file already exists, you can use the existing file or upload a new file.
	ii. If the API requires authentication, provide the API key value in the API Key field.
	Note: The supported security scheme is API key. Multiple API keys in requests are not supported.
	URL to the OpenAPI specification
	i. Provide the OpenAPI document URL.
	ii. If the API requires authentication, provide the API key value in the API Key field.
	Note: The supported security scheme is API key. Multiple API keys in requests are not supported.
GraphQL	Select File or URL and perform the relevant task based on your selection.
	File
	 Click and browse to and select the GraphQL introspection file. The JSON file format is accepted. If a file already exists, you can use the existing file or upload a new file.
	 ii. Select the API scheme in the API Scheme Type field: HTTP, HTTPS, HTTP and HTTPS.

	 iii. In the API Host field, provide the URL or hostname. iv. In the API Service field, provide the directory path for the API service.
	URL Provide the GraphQL introspection endpoint URL.
	Note: The GraphQL API must have introspection enabled to download the schema contents for the scan.
gRPC	 Click and browse to and select the gRPC proto file. The PROTO file format is accepted. If a file already exists, you can use the existing file or upload a new file.
	ii. Select the API scheme in the API Scheme Type field: HTTP , HTTPS , HTTP and HTTPS .
	iii. In the API Host field, provide the URL or hostname.
	iv. In the API Service field, provide the directory path for the API service.

c. In the **Additional Instructions** field, provide additional instructions.

APIs (Dynamic+ API)

For information on preparing web API project files suitable for automated testing, see "Preparing Web API Files" on page 125.

a. To add instructions for scanning web APIs utilized by the site, click **APIs**.

∨ APIs
To help ensure quality results and avoid paused scans, please review the detailed instructions for API assessments. $^{\textcircled{0}}$
API Type
(Choose One)

- b. Select the API definition type in the API Type field: SOAP, REST, GraphQL, gRPC.
- c. Perform the relevant task based on your API definition type:

API Definition Type	Procedure
SOAP	i. Upload a WSDL file that contains working sample data. The JSON, WSDL, TXT, and XML file formats are accepted.

ii. (Optional) In the Additional Instructions field, provide additional instructions, such as required headers, tokens, or authentication mechanisms.
iii. (Optional) Provide the username and password or API key and password.
i. Upload an API definition file that contains working sample data. The JSON, WSDL, TXT, and XML file formats are accepted.
ii. (Optional) In the Additional Instructions field, provide additional instructions, such as required headers, tokens, or authentication mechanisms.
iii. (Optional) Provide the username and password or API key and password.
Select File or URL and perform the relevant task based on your selection.
File
 Click and browse to and select the GraphQL introspection file. The JSON file format is accepted. If a file already exists, you can use the existing file or upload a new file.
ii. Select the API scheme in the API Scheme Type field: HTTP , HTTPS , HTTP and HTTPS .
iii. In the API Host field, provide the URL or hostname.
 iv. In the API Service field, provide the directory path for the API service.
v. In the Additional Instructions field, provide additional instructions.
URL
i. Provide the GraphQL introspection endpoint URL.
Note: The GraphQL API must have introspection enabled to download the schema contents for the scan.
ii. In the Additional Instructions field, provide additional instructions.
i. Click and browse to and select the gRPC proto file. The PROTO file format is accepted. If a file already exists, you can use the existing file or upload a new file.

ii.	Select the API scheme in the API Scheme Type field: HTTP , HTTPS ,
	HTTP and HTTPS.
iii.	In the API Host field, provide the URL or hostname.
iv.	In the API Service field, provide the directory path for the API
	service.
v.	In the Additional Instructions field, provide additional instructions.

Scheduling & Availability (all assessments)

To edit the scan frequency and site availability settings, click **Scheduling & Availability** and complete the fields as needed.

✓ Scheduling &	Availability
----------------	--------------

(Do not repeat)							~
Site Availability DAY ALL DAY MIDNIGHT TO 4AM 4AM TO 8AM 8AM TO 12PM 12PM TO 4PM 4PM TO 8PM 8PM TO MIDNIGHT						8PM TO MIDNIGHT	
DAY	ALL DAY						
Monday							
Tuesday							
Wednesday							
Thursday							
Friday							
Saturday							

Fortify on Demand can work according to your sites availability restrictions. However, decreasing the scan window will cause the scan to take longer than the typical SLA.

Field	Description
Repeat Frequency	Select the scan's repeat frequency: Do not repeat (default), 2 weeks , 1 month , 2 months , 3 months , 4 months , 6 months , 12 months . If you are requesting a single scan, keep the default value.
	Scheduled recurring scans are automated and subjected to the following stipulations:
	• Scheduling of a scan occurs seven days before the calculated scan date, which is determined by the start date of the previous scan and the repeat frequency. For example, if a monthly scheduled scan starts on the 5th of the month, the next scan will be scheduled for the 5th of the next month.
	The entitlement is deducted at the time of scheduling.A scan will only be scheduled if a valid entitlement for the selected

Field	Description
	assessment type exists at the time of the scheduling.
	• If a scan is canceled, no further scans will be scheduled.
	• If a scan is still in progress when the next scan is to be scheduled, Fortify on Demand will attempt once a day to reschedule the next scan until the scan date has passed. For example, if a monthly scheduled scan that starts on the 5th of the month is still in progress by the 5th of the next month, the next rescheduling attempt will take place seven days before the 5th of the month after that.
Site Availability	Select the check boxes to indicate when the environment is available for testing. Use the local time of the time zone specified above. You must provide a minimum of a four hour window of availability during the week.
	Note: Site availability restrictions can have a significant effect on the turnaround time. For example, you can expect a potential doubling of the testing window if you restrict the testing times to half the day. Contact support for more information if you have site availability constraints.

Additional Details (Dynamic Website, Dynamic+ Website, Dynamic+ API)

To add additional details about the scan, click **Additional Details**.

✓ Additional Details	
User Agent	
Desktop browser Mobile browser	
Concurrent Request Threads 🔨	
Standard Limited	
Additional Notes	
Adding additional notes or files requires manual review and leads to longer turnaround times.	
Additional Documentation	
Upload additional documentation/information (30MB limit)	
Uploaded Files	
There are no items to display.	
Generate WAF Virtual Patch	
Request pre-assessment conference call	

Field	Description	
User agent	Select the user agent type that will be used for the site: Desktop browser (default), Mobile browser	
Concurrent	Select the number of concurrent requests that will be used for the scan:	
request threads	• Standard (default): 5 crawl requestor threads, 10 audit requestor threads, 20 second request timeout	
	• Limited : 2 crawl requestor threads, 3 audit requestor threads, 5 second request timeout	
	Selecting the Limited option will reduce the scan load but will also cause the scan to take longer than the standard SLO.	
Additional Notes	(Optional) Type additional information that the testing team needs to know before starting the assessment.	
	Note : Free form exclusions and whitelist notes have been migrated to this field.	
Additional Documentation	(Optional) Upload documentation (30 MB limit) that facilitates testing of the application. Uploaded files are displayed in the Uploaded Files section below.	
	Supported file types: DOC, DOCX, PPT, TXT, PDF, PPTX, ZIP, XLS, XLSX, CSV.	
Generate WAF Virtual Patch	Note: Contact support to enable the WAF feature.	
	(Optional) Select the checkbox to generate an export of vulnerabilities to a web application firewall (WAF). The export is an XML file and is compatible with the following WAFs: Imperva and F5. Once the assessment is complete, you can download the file on the Scans page	
Request pre- assessment conference call	(Optional, Dynamic Premium and Dynamic+ assessments) Select the check box to request a pre-assessment conference call. The check box is cleared after the assessment is completed.	
	Note: You cannot request a pre-assessment conference call for a scan scheduled within 72 hours.	

6. Once you have configured the scan settings, click **Save**.

- If the form is complete, the Setup Status is marked as Valid.
- If the form is incomplete, the **Setup Status** is marked as **Incomplete**. A list of the issues appears at the top of the page. You can hover over the **x** icon next to **Setup Status** to display the list.

Scheduling the Dynamic Scan Through the Portal

Once you have prepared your web application and configured the dynamic scan settings, you can schedule the dynamic scan. You can have only one in progress dynamic scan across all releases of an application.

To schedule a dynamic scan:

1. Click Start Scan.

Note: If the application has an active dynamic scan, you are blocked from starting another scan.

The **Start Dynamic Scan** window opens, displaying the current time and time zone.

Start Dynamic Scan -	http://zero.webappsecurity.com/	×
	Start Date	
Start Date	2017/11/10 1:06 am	
Site Accessibility	< November 2017 >	
Summary	Su Mo Tu We Th Fr Sa	
	1 2 3 4	
	5 6 7 8 9 10 11	
	12 13 14 15 16 17 18	
	19 20 21 22 23 24 25	
	26 27 28 29 30	
	Time 11:06 am	
	Hour 11 am 🗸	
	Minute 06 🗸	
	NOW DONE	
	BACK NEXT	

2. Click the **Start Date** field.

Click **Now** to schedule a scan immediately or use the calendar to select a start date and time, then click **Done**.

3. Click Next.

Site accessibility check results appear. The site accessibility check looks for the following criteria:

- The URL resolves.
- The DNS of the hostname resolves.
- Fortify on Demand receives a valid HTTP response.
- The server returns a valid response (the status code is listed).
- The final URL, if there are any redirects, is within the target domain (the final URL is listed).
- Whether the application has limited or complex application functionality (such as links, forms, or scripts).
- Whether updated credentials were provided if authentication is required.

Start Dynamic Scan - ht	ttp://zero.webappsecurity.com/	×
	Application accessibility test complete. ®	
✓ Start Date	⊘ Valid URL format	
Site Accessibility	⊘ Valid host	
Summary	⊘ Valid HTTP response	
	Received 200 OK response Status Code: 200 - OK	
	✓ Valid final URL within target domain Final URL: http://zero.webappsecurity.com:80/	
	⊘ Application functionality detected	
	BACK NEXT	START SCAN

Resolve any issues before starting your scan in order to prevent the scan from being paused.

Note: The site accessibility check is available for website scans (with the exception of sites accessed through VPN).

4. Click Next.

A summary of the dynamic scan setup values appears.

Start Date	No		
Site Accessibility	Time Zone (UTC-05:00) Eastern Time (US & Canada)		
Summary	Environment Facing External		
	Scope	Scheduling & Availability	
	Restrict to Directory and Subdirectories	Repeat Frequency	
	No	(Do not repeat)	
	Allow HTTP (:80) and HTTPS (:443)	Availability	
	Yes	Always	
	Allow form submissions Yes	Additional Details	
	Exclusions	WAF Virtual Patch	
	No	No	
		Pre-Assessment Call	
		No	
		Assessment Notes	
		(None)	
	By startion this assessment you arknowled	ge authorization to perform a security assessment of the applica	ition.

5. Review the summary. If necessary, click **Back** and make any corrections. If the values are correct, click **Start Scan**.

You are redirected to Release Scans page; your new scan has a **Scheduled** status. The scan will begin at your scheduled time. If you schedule recurring scans, the release will be scanned at the intervals you defined until you update your dynamics scan settings.

Related Topics

In addition to using the portal, you can submit a dynamic assessment using the following methods:

- Build server integration tools: Fortify Azure DevOps Extension, Fortify on Demand Jenkins Plugin (coming soon). For more information, see "CICD Tool" on page 331.
- Fortify on Demand API. For more information, see "Fortify on Demand API" on page 316.

Editing Dynamic Scan Settings for Ongoing and Completed Scans

You can edit dynamic scan settings for scheduled scans that have not been started and paused scans. If you need to edit scan settings for an in progress scan, create a Help Center ticket to have the scan paused. The testing team will respond to the ticket.

The following fields cannot be edited after a dynamic scan has been scheduled:

• Assessment Type. Cancel the scan to edit the field.

• **Dynamic Site URL**. If the release does not have a completed scan, cancel the scan to edit the field. Otherwise, the field is locked.

In addition, upon successful completion of a dynamic scan, the following fields are set to values from the completed scan and locked for editing:

- Dynamic Site URL
- Scan Type
- All fields in the **Scope** section (except for DAST Automated scans)
- Workflow-Driven Scan fields
- All fields in the **Authentication** section, with the exception of username and password fields.
- All fields in the **APIs** section, with the exception of username and password fields and uploaded project files.

To edit these fields, create another release using the copy state feature and reconfigure scan settings.

Continuous Application Monitoring

Continuous Application Monitoring is included with any active dynamic subscription. Fortify on Demand performs lightweight dynamic scanning and risk profiling of an enrolled application at regular intervals. The automated, unauthenticated scans focus on OWASP Top 10 vulnerabilities and common environment or deployment issues. Fortify on Demand then provides a list of vulnerabilities and a detailed breakdown of the risk profile, enabling you to identify critically vulnerable applications that need immediate remediation.

This section contains the following topics:

Configuring Application Monitoring

Continuous Application Monitoring is available with a dynamic assessment subscription. Users with the **Manage Applications** permission can configure Application Monitoring for an application.

Note: An URL can have Application Monitoring enabled only once across all releases in an application.

To configure Application Monitoring:

1. Select the **Applications** view.

Your Applications page appears.

- 2. Click the name of an application for which you want to enable application monitoring.
- 3. Click Application Monitoring.

The Application Monitoring page appears.

Note: Users with the View Applications permission have view-only access.

4. Select the **Configuration** tab.

Ξ	Zero	4		
	Application Monitor			
(Risk Profile Configuration		Last Completed: 2019/09/11	SAVE
© #		Application Monitoring delivers lightweight unauthenticated dynamic security assessments of the provided URL that are fully automated and occur on a freq basis. By enabling Application Monitoring, you acknowledge authorization to perform a security assessment of the application, which may reveal or create pro the operation of the systems tested.*		
5		Enable No 10 of 10 applications available.		
PEF SOS		URL		
2~		Fortify on Demand assessments will occur from IP ranges and networks: 15.0.0.0/8, 16.0.0.0/8, 174.137.32.22/32, 62.73.140.103/52, 62.73.140.104/32		
		*Forthy on Demand endeavors to help minimize disruptions to the application, network while performing any automated scanning, manual validation, or panetration testing. The custom acknowledges that some of the sarvices are designed to test the accurity of computer software, and the advater and/or testing services used may reveal or create problems in the opera systems tested. The testing may result in discuptioned and/or damage to the customer's or the customer's truth-customer and the information and add contained therein, including but not limited to denied all access to a legitimate system user, automatic shutdown of information systems caused by intrusion detection software or hardware failure of the information system. The customer access the risk of such possibility and hereby waives all rights, remedies, and causes of action against Fortify on Demand and releases For Demand from all liabilities anting from such problems.	ion of the ta e; or	

Note: Applications under dynamic subscriptions do not count towards the enrolled application quota.

- 5. Move the **Enable** slider from **No** to **Yes**.
- 6. In the **URL** field, type the URL that you are going to monitor.
- 7. Click Save.

If Application Monitoring is enabled, results of a site accessibility check appears. The site accessibility check looks for the following criteria:

- The URL resolves.
- The DNS of the hostname resolves.
- Fortify on Demand receives a valid HTTP response.
- The server returns a valid response (the status code is listed).
- The final URL, if there are any redirects, is within the target domain (the final URL is listed).

Save Application Monitoring Configuration	×
Application accessibility test complete. $^{\textcircled{0}}$	
⊘ Valid URL format	
⊘ Valid host	
⊘ Valid HTTP response	
Received 200 OK response Status Code: 200 - OK	
✓ Valid final URL within target domain Final URL: http://zero.webappsecurity.com:80/	
Application Monitoring Configuration saved.	
cı	OSE

If any of the above fails, current Application Monitoring settings are not saved. Resolve all issues before configuring Application Monitoring.

8. Click Close.

Once Application Monitoring has been enabled, the URL will be scanned within the week. A scan will be cancelled if the site is not accessible at the time of the scan.

Canceling an Application Monitoring Scan

An in progress Application Monitoring scan is indicated by a **Scan In Progress** status on the top right of the Application Monitoring page. Users with the **Manage Applications** permission can cancel an in progress scan. An in progress scan is also automatically canceled when Application Monitoring is disabled.

You can cancel an Application Monitoring scan from the Your Scans or Application Scans page (see "Canceling a Scan" on page 171) or the Application Monitoring page (see below).

To cancel an in progress Application Monitoring scan:

1. Select the **Applications** view.

Your Applications page appears.

- 2. Click the name of an application for that has an application monitoring scan in progress.
- 3. Click Application Monitoring.

The Application Monitoring page appears.

\equiv	Zero
	Application Monitoring Scan In Progress CANCEL SCAN
۲	Risk Profile Configuration
Ø	
€	There are no items to display.
U	
PDF	
ŝ	
2~	
∇	

4. Click Cancel Scan.

A confirmation message appears.

5. Click **Yes**.

The in progress scan is cancelled.

Note: Cancelled Application Monitoring scans do not appear in any scan list.

Viewing Application Monitoring Issues

You can view Application Monitoring issues on the Application Issues page, which displays issues at the application level. For more information on viewing application issues, see "Viewing Application Issues" on page 176.

Viewing Risk Profile Results

Risk profiling of an application searches for the following application characteristics: collection of personally identifiable information (PII), e-commerce functionality, authentication methods, and web technologies used in the application. You can view an application's risk profile from the most recent risk profile scan.

To view an application's risk profile:

1. Select the **Applications** view.

Your Application page appears.

- 2. Click the name of an application that has Application Monitoring enabled and for which you want to view the risk profile.
- 3. Click Application Monitoring.

The Application Monitoring page appears. The **Risk Profile** tab displays the risk criteria found and the number of instances of each criterion.

ero	
pplication Monitoring	
Risk Profile Configuration	Last Completed: 2018/01/30
found	Display: 25 50 100
Authentication 2 New	
Findings	Summary
Forms Forms New New	Authentication technologies used by web applications
E-Commerce 1 New	
Personally Identifiable Information 1 New	
Web Technology a New	
R	isk Profile Configuration found Authentication Findings Forms Froms Froms Froms Froms Froms Froms Froms Froms Fr

4. Expand a risk criterion to view individual instances of that criterion.

Authentication 2 New		
Findings		Summary
Forms Total	New New	Authentication technologies used by web applications
	INCW	

5. Click to open a window containing the instance details.

Finding Details		Х
Category	Evidence	
Authentication Finding Forms	Url http://zero.webappsecurity.com:80/login.html?login_error=true	*
Status Reopen	Message password inputs in static form	
Introduced Date 2017/06/01	Url http://zero.webappsecurity.com:80/login.html	
Last Found Date 2018/01/24	Message password inputs in static form	
		Ŧ
	CLC	OSE

Mobile Assessments

A mobile assessment tests a mobile application. It offers security testing across the client, the network, and the backend server. Fortify on Demand supports the following platforms: Android, iOS.

This section contains the following topics:

Supported Platforms and Operating Systems	153
Preparing Mobile Assessment Files	154
Preparing the Backend for Mobile Testing	156
Configuring a Mobile Scan	156
Scheduling the Mobile Scan Through the Portal	.161
Editing Mobile Scan Settings for an Ongoing Scan	164

Supported Platforms and Operating Systems

Hardware Platforms

Fortify on Demand supports the following hardware platforms:

	Mobile	Mobile+
Phone (small format)	N/A	Yes
Tablet (large format)	N/A	Yes
SIM/cellular service	N/A	Yes
Hardware type (Apple Watch, Samsung Galaxy)	N/A	No

Operating Systems and Architectures

Fortify on Demand supports the following operating systems and native architectures:

	Mobile	Mobile+
Minimum iOS version (MinimumOSVersion)	N/A	Up to 15.7
Native iOS architecture	ARMv7, ARM64	ARMv7, ARM64
Minimum Android version (android:minSdkVersion)	N/A	Up to 32 (Android 12)
Native Android architecture	ARMv7, ARM64	ARMv7, ARM64

Preparing Mobile Assessment Files

The first step in a mobile assessment is to prepare your mobile application's binary file for upload to Fortify on Demand. To ensure an effective analysis of the mobile application, prepare your files according to the instructions that are provided for the framework of the mobile application.

This section contains the following topics:

Preparing Android Application Files (Binary)	L54
Preparing iOS Application Files (Binary)	L55

Preparing Android Application Files (Binary)

For Android applications, prepare your application's binary (.aab or .apk) file according to the following instructions:

- Make sure the application does not require MDM features.
- Provide the binary file in its entirety. Since only the submitted file is tested, features that require application updates are not supported.
- For assessments that include on-device testing (Mobile+), make sure that the submitted application can be installed and run on a physical device.

- To facilitate testing for Mobile+ assessments, disable any root detection, application tampering, or certificate pinning mechanisms. Leaving in these features might result in testing limitations that impact scan coverage.
- Mobile+ assessment of AAB files supports dynamic feature modules that have <dist:fusing dist:include="true" /> specified in the manifest.
- **Important!** If you are submitting a subsequent scan of an application, either as a remediation scan or as a new scan, Fortify recommends keeping the application identifier (the package name) consistent in order to preserve the integrity of issue tracking between scans. The application identifier is used to calculate issue identifiers that track unique issues. Changing the application identifier between scans will result in many pre-existing issues showing up as "New" instead of "Existing" in the scan results.

Related Topics:

For information on uploading Android files for static assessments, see "Preparing Android Application Files (Source Code)" on page 106.

Preparing iOS Application Files (Binary)

For iOS applications, prepare your application's binary (.ipa) file according to the following instructions.

- For assessment that include on-device testing (Mobile+), make sure that the submitted application can be installed and run on a physical device.
- To facilitate testing for Mobile+ assessments, disable any application tampering or certificate pinning mechanisms. Leaving in these features might result in testing limitations that impact scan coverage.
- Make sure the application does not require MDM features.
- Export the application for submittal using the following supported distribution types:
 - App Store submittal (the IPA must contain executable code, so make sure the **Include bitcode** checkbox is cleared when exporting the application)
 - Ad Hoc
 - Enterprise
 - Development

Important! The following distribution types are NOT supported:

- IPA download from the App Store. The IPA is encrypted to the user who downloaded it.
- App Store submittal with the "Include bitcode" setting. The IPA does not contain executable code.

Since only the submitted file is tested, features that require application updates are not supported.

Note: If you are submitting a subsequent scan of an application, either as a remediation scan or as a scan of a new version, Fortify recommends keeping the application identifier (the bundle identifier) consistent in order to preserve the integrity of issue tracking between scans. The application identifier is used to calculate issue identifiers that track unique issues. Changing the application identifier between scans will result in many pre-existing issues showing up as "New" instead of "Existing" in the scan results.

Related Topics:

For information on preparing iOS source code files for upload, see "Preparing iOS Application Files (Source Code)" on page 106.

Preparing the Backend for Mobile Testing

For mobile assessments that include backend, web application testing, make the following preparations to facilitate the testing process:

- Confirm that your web application and/or user credentials are functioning before the assessment.
- Complete all functional and performance testing before the assessment and freeze your application's code for the duration of the security test engagement.
- As a standard precaution, Fortify recommends that you back up all of your data before beginning the testing process. When testing is complete, restore your data from a backup that is known to be good to avoid any chance of data corruption.
- The web application must be publicly accessible. Fortify on Demand does not support scanning over VPNs.
- Add the Fortify on Demand IP addresses to the allow list in firewalls, IPS, IDS and WAFs to ensure the application can be scanned by the mobile testing team. You can obtain the IP addresses from the Mobile Scan Setup page in the portal. Adhoc addresses may be used with your consent only when conditions necessitate it.
- Provide the Fortify on Demand IP addresses to your security operations and network operations teams, so they know not to block the IP addresses if they see attacks being submitted against the site, which are part of planned recurring security scanning.

Note: As long as your website is accessible through the http/https default ports (80/443), you do not need to open any additional ports for the assessment.

Configuring a Mobile Scan

If this is the first time you are submitting a mobile assessment for a release, you need to complete the Mobile Scan Setup page. You only need to complete the page once per release as the settings are carried over to the next scan. You can edit settings as needed for subsequent assessments.

To set up a mobile scan:

1. Select the **Applications** view.

Your Applications page appears.

2. Click the name of the application.

The Application Overview page appears.

Ξ	iGoat Android (JAVA)							
	Policy Compliance	Issues In Production				Security Status		
•	* \$ \$ \$ \$ \$ \$ \$	CRITICAL	HIGH	MEDIUM	LOW		APP DEFENDER	
Ø	FAIL	43	122	18	15			
5								
PDF	Releases					Search Text	۹	+ NEW RELEASE
io:	1 found							Display: 25 50 100
2	START SCAN RELEASE	SDLC STATUS POLICY COMPL	ANCE	4	ISSUES	STATIC	MOBILE	LAST COMPLETED
	START SCAN ▷ 2.4	Production	Â	CRITICAL HIGH	MEDIUM LOW	⊘	\oslash	2016/05/13

3. Click **Start Scan** for the release that you want to have assessed and select **Mobile** from the menu.

START SCAN ▷	2.4
♦ Static	
🛱 Mobile	

The Mobile Scan Setup page appears.

\equiv	iGoat Android (JAVA) > 2.4 🔯			
	🧭 Mobile Scan Setup	0	Setup Status: Incomplete 🔇	SAVE D START SCAN
⊕ ⊘	C	Define Mobile Application Details	1000 Unit(s) Available	2
C		Assessment Type		
>			~	
		Entitlement		
		(Choose One)	×	
PDF		Framework Type	Time Zone	
ŝ		Android	(UTC-08:00) Pacific Time (US & Canada) V	
		Audit Preference		
		(Choose One)	~	
		Application Platform		

4. Complete the fields as needed. Fields are required, unless otherwise noted.

Field	Description
Assessment Type	Select the assessment type. Only assessment types allowed by the organization's security policy are displayed. The SLO of the selected assessment type appears below the field.
Entitlement	Select the entitlement that the assessment will use. The field displays entitlements that are valid for the selected assessment type, including those available for purchase. If the release has an active subscription, only options that do not consume entitlements are displayed.

Field	Description
Framework Type	Select the mobile OS: iOS , Android , Windows (Premium assessments only)
Time Zone	Select your location's time zone, which is used to schedule the scan's start time.
Audit Preference	Select the audit preference. The value is fixed at Manual for Mobile Standard, Mobile Premium, and Mobile+ assessments.
	Automatically publish (no audit) - The scan results are automatically published upon scan completion.
	Manual – The scan results are reviewed by auditors before being published.
Application Platform	(Optional) Select your application's preferred platform: Phone and/or Tablet

5. If needed, you can configure additional scan settings in the sections appearing below the required fields. The sections that are available depend on the assessment type selected.

Authentication (Mobile Standard, Mobile Premium, and Mobile+)

To edit the authentication settings, complete the fields as needed in the **Authentication** section.



Field	Description
Authentication	(Optional) Select the check box if authentication is required and enter user names and passwords of at least two users. To add more credentials, use the Add additional [] notes field at the bottom of this form.
Multi-Factor Authentication	(Optional) Select the check box if multi-factor authentication is required and specify the details of your multi-factor authentication.

APIs (Mobile Standard, Mobile Premium, and Mobile+)

To add details about web APIs, complete the fields as needed in the **APIs** section.



Fortify on Demand assessments will occur from IP ranges and networks: 15.0.0.0/8, 16.0.0.0/8, 174.137.32.22/32, 62.73.140.103/32, 62.73.140.104/32

Environment Availability

DAY	ALL DAY	MIDNIGHT TO 4AM	4AM TO 8AM	8AM TO 12PM	12PM TO 4PM	4PM TO 8PM	8РМ ТО
Sunday							
Monday							
Tuesday							
Wednesday							
Thursday							
Friday							
Saturday							
<							>

Fortify on Demand can work according to your sites availability restrictions. However, decreasing the scan window will cause the scan to take longer than the typical SLA.

Field	Description
Access to APIs	(Optional) Select the check box to allow Fortify on Demand to scan web APIs utilized by the application.
Exclusions	(Optional) List websites, backend web services, web APIs, or internal services the application talks to via HTTP/HTTPS that are to be excluded during the scan. This gives the testing team the correct context and boundaries for conducting the scan; domains not excluded that are discovered may be classified as vulnerabilities.
Environment Availability	Select the check boxes to indicate when the environment is available for testing. Use the local time of the time zone you specified above. Pausing and resuming testing causes the scan to take longer than the standard SLA typically allocated for a scan. Contact the support team for more information if you have site availability constraints.
	Note: Application modifications during blackout periods introduce uncertainty in the findings.

Additional Documentation (Mobile Standard, Mobile Premium, and Mobile+)

To add additional details about the scan, complete the fields as needed in the **Additional Documentation** section.

Additional Documentation

		🔔 UPLOA
additional application and assessment notes		
.ist any special requirements for testing this application such as: requires sim card, requires a work inning details, root/jailbreak enforcement, etc.	ing phone number, location restricti	ions, certificate

There are no items to display.

Uploaded Files

NAME

CREATED

Field	Description
Upload additional documentation/information (30MB limit)	(Optional) Upload documentation (30 MB limit) that facilitates testing of the application. Uploaded files are displayed in the Uploaded Files section below.
	Supported File types: DOC, DOCX, PPT, TXT, PDF, PPTX, ZIP, XLS, XLSX, CSV.
Add additional application and assessment notes	(Optional) Add any more information that the testing team needs to know to successfully build your application.
Request pre-assessment conference call	(Optional, Premium and Mobile+ assessments only) Select the check box to request a pre-assessment conference call. The check box is cleared after the assessment is completed.
	Note : You cannot request a pre-assessment conference call for a scan scheduled within 72 hours.

- 6. When you have completed the Mobile Scan Setup page, click **Save**.
 - If the form is complete, the **Setup Status** is marked as **Valid**.
 - If the form is incomplete, the **Setup Status** is marked as **Incomplete**. A list of the issues appears at the top of the page. You can also hover over the **x** icon next to **Setup Status** to display the list.

Next Step:

"Scheduling the Mobile Scan Through the Portal" below

Scheduling the Mobile Scan Through the Portal

Once you have prepared your mobile application and configured the mobile scan settings, you can upload the payload and schedule the mobile scan. You can have only one in progress mobile scan across all releases of an application.

To schedule a mobile scan:

1. Click Start Scan.

Note: If the application has an active mobile scan, you are blocked from starting another scan.

The Start Mobile Scan window opens.

Start Mobile Scan		×
Start Date Select Binary Payload Validation Summary	Start Date 2024/01/24 01:28 am (UTC-05:00) Eastern Time (US & Canada)	
	BACK NEXT	

2. Click the **Start Date** field.

Click **Now** to schedule a scan immediately or use the calendar to select a start date and time, then click **Done**.

Note: This step only applies to mobile scans that include backend testing.

3. Click Next.

The Select Binary page appears.

Start Mobile Scan		×
Start Date	Upload Android Binary (.apkaab) Please ensure the binary file does not include root/jailbreak detection or certificate pinning. Binaries without the removed will see reduced scan coverage.	ese mitigations
	BACK NEXT	

4. Click ... and navigate to and select your binary file.

5. Click **Next**.

Payload validation results appear. Payload validation looks for the following criteria:

- The payload is a valid zip archive. (Mobile, Mobile+)
- The payload is a valid application format. (Mobile, Mobile+)
- The application supports standard device formats. (Mobile+)
- The application supports required architectures. (Mobile+)
- The application targets a supported minimum operating system version. (Mobile+)
- The iOS application's bundle executable contains executable code. (Mobile+)
- The IOS application's bundle executable is unencrypted. (Mobile+)
- The iOS application's bundle executable runs on a physical device. (Mobile+)

Start Mobile Scan		×
 Start Date Select Binary Payload Validation Summary 	Payload validation test result 	
	BACK NEXT	

Fortify recommends resolving any issues before starting your scan in order to prevent the scan from being canceled. In some cases, the testing team can proceed with the scan in spite of validation failures. Select **Override validation failures** to continue to the next step. For more information on overriding validation failures, contact support.

6. Click **Next**.

The Summary page appears.

Start Mobile Scan		×
✓ Start Date		^
	Scan Details	
✓ Select Binary	Start Date	
 Payload Validation 	2024/01/24 01:28:47 AM	
Summary	Time Zone	
	(UTC-05:00) Eastern Time (US & Canada)	
	Assessment Type	
	Mobile+ Assessment	
	The service level objective (SLO) for this assessment is 3 business day(s) Pacific Standard Time 🕐	
	Remediation Scan	
	No	
	Application Details	
	Framework Type	
	Android	
	Application Platform	
	Phone & Tablet Application	
	Authentication Required	
	No	-
	By starting this assessment, you acknowledge authorization to perform a security assessment of the application	. ()
	BACK NEXT START	SCAN

7. Review the summary. If necessary, click **Back** and make any corrections. If the values are correct, click **Start Scan**.

You are redirected to the Release Scans page, your new scan has a **Scheduled** status. The scan will begin at your scheduled time.

Note: If you consumed a Premium Mobile entitlement, an associated static entitlement, named "<Mobile Premium Name> (Source)," is now available when you start a static scan.

Related Topics

In addition to using the portal, you can submit a mobile assessment using the following method:

• Fortify on Demand API. For more information, see "Fortify on Demand API" on page 316.

Editing Mobile Scan Settings for an Ongoing Scan

You can edit mobile scan settings for paused scans and scheduled scans that have not yet been started. Note that you cannot edit the **Assessment Type**, **Framework Type**, **Audit Preference**, and **Application Platform** fields. If you need to edit those fields, cancel the scan and resubmit the mobile assessment.

If you need to pause an in progress scan to edit the scan settings, create a Help Center ticket. The testing team will respond directly to the ticket with any updates. For more information on creating a Help Center ticket, see "Submitting a Help Center Ticket" on page 373.

Entitlement Consumption

The portal manages entitlement consumption. The available entitlement quantity is displayed on the Scan Setup pages. If you purchased scans, the number of available assessments is displayed. If you purchased assessment units, the unit cost of each assessment and the total number of available units across all entitlements are displayed.

When you start or schedule a scan, the cost is automatically deducted from your entitlement allotment. Single scans are deducted each time you perform a scan, whereas a subscription is deducted once and is then valid for the application until the subscription end date. You can identify an application that is under subscription because the entitlement cost is replaced with the subscription end date.

Additional entitlement information is available through the following sources:

- The entitlement consumption and active entitlements dashboard tiles. For more information, see "Dashboard Graph Types" on page 224.
- The entitlement consumption data export. For more information, see "Creating a Data Export Template" on page 248.
- Entitlements page under the Administration view. For more information, see "Viewing Entitlements" on page 267.

Managing Scans

You can manage scan activities at the tenant, application, and release levels. The Your Scans page displays scans across the tenant. Users can drill down into an application; the Applications Scans page displays scans ran against the application and the Release Scans page display scans ran against the release. The Scans pages, sharing a similar layout and functionality, provide a single view where users can review scan details and track scan progress.

This section contains the following topics:

Viewing All Scans	
Viewing Application Scans	
Viewing Release Scans	
Navigating the Scans Page	
Filtering Your Scans page	
Checking the Scan Status	
Canceling a Scan	171
Resuming a Paused Scan	
Viewing Help Center Tickets Linked to a Scan	

Viewing All Scans

You can view scans for all your applications at the tenant level.

To view scans at the tenant level:

1. Select the **Applications** view.

Your Applications page appears.

2. Click Your Scans.

Your Scans page appears. The number of available entitlements is shown at the top.

=	Your Scans								Search Text	۹ 🖓
	500 Unit(s) Availabl	e								
	12 found									Display: 25 50 100
Ø	APPLICATION	RELEASE	SCAN TYPE	ASSESSMENT TYPE	STATUS	STARTED	COMPLETED	# ISSUES		
*	WebGoat (.NET)	5.4	Dynamic	Dynamic Express		2017/11/10				図 …
	WebGoat (.NET)	5.4	Dynamic	Dynamic Premium	\otimes	2016/05/13	2017/07/19			☑ …
	Zero Security (COBOL)	12.6.8	Static	Static Basic	\odot	2016/05/13	2016/05/13	11 4 0 0	15	⊠ …
	WebGoat (.NET)	5.4	Static	Static Basic	\odot	2016/05/13	2016/05/13	34 67 0 7	108	⊠ …
	WebGoat (NET)	5.4	Dynamic	Dynamic Premium	\odot	2016/05/13	2016/05/13	101 84 11 6	300	⊠ …
	Rubix (JAVA-No Source)	0.1	Static	Static Basic	\oslash	2016/05/13	2016/05/13		8	⊠ …
	OpenSSL (C Source)	1.0.2a	Static	Static Basic	\odot	2016/05/13	2016/05/13	<u>64</u> 156 0 0	220	⊠ …
	Jeopardy (PHP)	3.1	Static	Static Basic	\odot	2016/05/13	2016/05/13	1615 0 1 4	7 313	⊠ …
	iGoat iOS (Objective-C)	2.4	Static	Static Basic	\oslash	2016/05/13	2016/05/13	13 53 0 0	66	☑ …

The following table describes how to navigate Your Scans page.

Viewing Application Scans

You can drill down into an application and view scans of only that application.

To view scans at the application level:

1. Select the **Applications** view.

Your Applications page appears.

- 2. Click the name of the application that you want to view scans ran against.
- 3. Click Scans.

The Application Scans page appears, displaying scans ran against the application.

⊒	WebGoat (NET) Application Scans									
⊕ ⊘	4 found	SCAN TYPE	ASSESSMENT TYPE	ENTITLEMENT TYPE	STATUS	STARTED	COMPLETED	# ISSUES	Display: 2	25 50 100
€	5.4	Dynamic	Dynamic Express	Subscription	\otimes	2017/11/10	2019/05/06			
E F	5.4	Dynamic	Dynamic Premium	N/A	\otimes	2016/05/13	2017/07/19			
PEF SCS	5.4	Static	Static Basic	N/A	\oslash	2016/05/13	2016/05/13	34 67 0 7 108		
2~	5.4	Dynamic	Dynamic Premium	N/A	\oslash	2016/05/13	2016/05/13	101 84 11 67 300		

The following table describes how to navigate the Application Scans page.

Viewing Release Scans

You can drill down into a release and view scans of only that release.

To view scans at the release level:

1. Select the **Applications** view.

Your Applications page appears.

2. Click **Your Releases**.

Your Releases page appears.

- 3. Click the name of the release that you want to view scans ran against.
- 4. Click Scans.

The Release Scans page appears, displaying scans ran against the release.

	WebGoat (NET) > 5.4 Dynamic - Scan In Progress								
(Release Scans								
@ 	4 found							Display: 25 50 100	
	SCAN TYPE	ASSESSMENT TYPE	ENTITLEMENT TYPE	STATUS	STARTED	COMPLETED	# ISSUES		
	Dynamic	Dynamic Express	Subscription	In Progress	2017/11/10			⊠ …	
	Dynamic	Dynamic Premium	N/A	Canceled 🕄	2016/05/13	2017/07/19		⊠ …	
	Static	Static Basic	N/A	Completed	2016/05/13	2016/05/13	34 67 0 7 108	☑ …	
	Dynamic	Dynamic Premium	N/A	Completed	2016/05/13	2016/05/13	101 84 11 67 300	国 …	

Navigating the Scans Page

The following tables describe how to navigate Your Scans page, Application Scans page, and Release Scans page. The Scans pages share the same features except where noted.

Task	Action	Notes
Search the scan list	Type a keyword or phrase in the search text box and click Enter . To remove the search results, remove the text from the search box and click Enter . For information, see "Searching Applications and Releases" on page 78.	Text search is only available on Your Scans page
Hide or display the filter list	Click ▼.	Filtering is only available on Your Scans page.

Task	Action	Notes
Expand or collapse filters	Click expand all I collapse all (a) or the arrow next to the filter name.	
View Help Center tickets associated with a scan	Click 🖂.	
Request cancellation of an in progress scan	Click •••• and select Cancel Scan . See "Canceling a Scan" on page 171.	
View scan summary	Click ••• and select Scan Summary . The scan summary includes the scan ID and a comparison to the previous scan.	
View static scan notes	Click ••• and select Scan Notes .	
Download scan results	Static, dynamic, and mobile: Click •••• and select Download Results . Open source: Click •••• and select Download SBOM .	
Download manifest of static scan payload	Click ••• and select Download Manifest . The manifest lists uploaded files and excludes images, media files, and CSS files.	
Download static scan payload	Note: Contact support to enable the download source code feature.	Downloading static scan payload is only available on Your
μάλισασ	Click ••• and select Download Source Code for a completed scan.	Scans page and Releases page.
Download dynamic scan site tree	Click ••• and select Download Site Tree . Select CSV or JSON for the file type.	
View dynamic	Click and select Detected Hosts . Detected hosts are	

Task	Action	Notes
scan detected hosts	hosts that are referenced by the application but are not specified as allowed hosts.	
Download login macro used in dynamic scan	Click •••• and select Download Login Macro .	Login macro is available for DAST Automated Website scan.
Download scan log for failed ddynamic scan	Click and select Download Scan Log .	Scan log is available for DAST Automated scan.
Submit Debricked scan on SBOM	Click •••• and select Send to Debricked . The SBOM must be available for download.	
Delete an imported scan	Click ••• and Cancel Imported Scan . See "Deleting an Imported Scan" on page 343.	
Create a WAF export file	Note: Contact support to enable the WAF feature.	
	Click — and select Send to WAF/IPS . The export is an XML file.	

Note: The duration of availability for downloads is set by the "Data Retention Policy" on page 371.

Filtering Your Scans page

You can limit the scans displayed on Your Scans page by applying filters. Filtering is only available at the tenant-level view.

Note: A filter only appears in the filter list when the results contain multiple values for that filter.

To filter Your Scans page:

- 1. Navigate to Your Scans Page (see "Viewing All Scans" on page 166).
- 2. Click **T** to display the filter list if it is not currently displayed.

- 3. Expand the filters that you want to apply.
- 4. Select your desired filter values. The following table describes the available filters.

Filter	Description	Values
Started on	Date range in which scans were started	
Completed on	Date range in which scans were completed	
Assessment type	Assessment type of the scan	
Entitlement Type	Entitlement type of the scan	Single Scan, N/A, Subscription, Remediation
Is Remediation	Whether the scan is a remediation scan	False, True
Release	Release associated with the scan	
Scan Status	Status of static, dynamic, mobile, and network scans	In Progress, Completed, Canceled, Waiting
Scan Type	Scan type	Static, Dynamic, Mobile, Network, Open Source, Application Monitoring

Your Scans page automatically refreshes with your filtered results. Applied filters are shown at the top of the page.

Checking the Scan Status

Release owners, scan submitters, and users on an application's notification list receive email notifications of the following scan status updates to an application: scan start, scan completion, scan cancellation, scan pause. You can also check the scan status in the portal.

To check a scan status for an application:

1. Select the **Applications** view.

Your Applications page appears.

2. Click the name of the application for which you want to check the scan status.

The Application Overview page appears.

\equiv	WebGoat (.NET)										
 ▲ 	Policy Compliance ★☆☆☆☆	Issues In Production		HIGH			MEDIUM			LOW	
© ₩	FAIL view	135		151			11			74	
U	Releases						Search Text		۹	+ NEW RELEASE	
CH SOS	1 found									Display: 25	50 100
200	START SCAN RELEASE	COPY STATE SOURCE RELEASE	SDLC STATUS	POLICY COMPLIANCE		# ISSUE	s		STATIC	OPEN SOURCE	DYNAMIC
	START SCAN ▷ 5.4		Production	FAIL	CRITICAL	HIGH 151	MEDIUM	LOW 74	\oslash	Θ	\otimes

- 3. Hover over a scan status icon to view a tooltip with additional information about the most recent scan of that type across releases.
- 4. Click a status icon to directly access the scan status details:
 - Not Started: you are redirected to the relevant Scan Setup page.
 - Scheduled: you are redirected to the relevant Scan Setup page.
 - In Progress: you are redirected to the Release Scans page or the Application Scans page if a microservice application has queued static scans.
 - Queued: you are redirected to the relevant Scan Setup page.
 - Paused: you are redirected to the Help Center Tickets window on the Release Scans page.
 - Canceled: you are redirected to the relevant Scan Setup page.
 - Completed: you are redirected to the Release Issues page (static, dynamic, and mobile scans) or the Application Issues page (Application Monitoring scans), filtered by the relevant scan type.

Note: DAST Automated and Debricked scans can have partial results; the scan status icon for completed scans that have partial results is highlighted in orange;

Canceling a Scan

You might need to cancel a scan that has not been started or has been started but has not been completed. The portal automates processing of the cancellation request. The entitlement cost will be refunded if a refund is deemed appropriate.

To cancel a scan:

1. Select the **Applications** view.

Your Applications page appears.

- Click the name of the application for which you want to cancel a scan. The Releases page appears.
- 3. Click Scans.

The Application Scans page appears.

=	WebGoat (.	NET)							
	Applicat	ion Scans							
€ •	4 found								Display: 25 50 100
AQ	RELEASE	SCAN TYPE	ASSESSMENT TYPE	ENTITLEMENT TYPE	STATUS	STARTED	COMPLETED	# ISSUES	
2	5.4	Dynamic	Dynamic Express	Subscription	\otimes	2017/11/10	2019/05/06		☑ …
	5.4	Dynamic	Dynamic Premium	N/A	\otimes	2016/05/13	2017/07/19		∞ …
3	5.4	Static	Static Basic	N/A	\oslash	2016/05/13	2016/05/13	34 67 0 7 108	∞ …
~	5.4	Dynamic	Dynamic Premium	N/A	\oslash	2016/05/13	2016/05/13	101 84 11 67 300	∞ …

4. Click ••• in the row of the scan and select **Cancel Scan**.

A confirmation message displays.

- 5. Click **Yes** to confirm the scan cancellation.
 - For a scan with a **Queued** or **Scheduled** status, the scan is automatically canceled.
 - For a scan with an **In Progress** status:
 - If the scan is an application monitoring scan or static scan that has not been audited, it is automatically cancelled.
 - If the scan is a dynamic scan, mobile scan, or static scan under audit, a Help Center ticket is generated that includes the cancellation request and scan details. An email is sent to the testing team, who then manually cancels the scan.
 - For a scan with a **Waiting** status, the scan is automatically canceled. An email is sent to the testing team.

Once a scan is cancelled, any Help Center tickets associated with the scan are marked as solved.

Resuming a Paused Scan

The testing team will pause a scan if additional information is needed. Respond to the associated Help Center ticket so the scan can be resumed. Note that pausing and resuming testing causes the scan to take longer than the standard SLO.

Note: Scans that have been paused for more than 21 consecutive days are automatically canceled. Any Help Center tickets associated with the scan are marked as solved.

To resume a paused scan:

1. Select the **Applications** view.

Your Applications page appears.

- Click the paused status icon in the Scan & Security Status column of the application. The Help Center tickets window appears.
- Click the **Pending Tickets** section.
 Pending tickets for the scan appears.
- 4. Click a ticket to view its comments.
- 5. Click Add Public Comment.

A text box appears below.

- 6. Type a comment that will be added to the ticket.
- 7. Click + Add Public Comment.

The comment is added to the ticket details in both the portal and Help Center. Your assessment's status then reverts to **In Progress**.

Note: If you need to add an attachment to the ticket, you must do it through the Help Center.

Viewing Help Center Tickets Linked to a Scan

You can directly view Help Center tickets linked to an active scan from the Your Scans, Application Scans, and Release Scans pages.

Note: If a scan has been paused, you can access associated Help Center tickets from any releaselevel page by clicking the **Help Center Tickets** button located in the status bar.

To view Help Center tickets linked to an active scan:

1. Select the **Applications** view.

Your Applications page appears.

- 2. Click the name of the application.
- 3. Click Scans.

The list of all scans ran against the application or release appears.

\equiv	WebGoat (NET)							
Å	Applicat	ion Scans							
⊕ ⊘	4 found								Display: 25 50 100
€ €	RELEASE	SCAN TYPE	ASSESSMENT TYPE	ENTITLEMENT TYPE	STATUS	STARTED	COMPLETED	# ISSUES	
₹Q.	5.4	Dynamic	Dynamic Express	Subscription	\otimes	2017/11/10	2019/05/06		四 …
C.	5.4	Dynamic	Dynamic Premium	N/A	\otimes	2016/05/13	2017/07/19		⊠ …
ŝ	5.4	Static	Static Basic	N/A	\oslash	2016/05/13	2016/05/13	34 67 0 7 108	窗 …
2~	5.4	Dynamic	Dynamic Premium	N/A	\oslash	2016/05/13	2016/05/13	101 84 11 67 300	图 …

4. Click the 🖾 icon.

The Help Center modal window opens, displaying all pending, open, and solved tickets associated with the scan.

Pending Tickets 1 :tet: 70 Status: pending sessment Waiting for Customer Action Status: pending	Ticket: 70 Assessment Waiting for Customer Action	Status: pending
sessment for Drupal - 725 is waiting for customer meaning are having issues accessing the site		> Add Public Comment
	From: Dylan Thomas Quick feedback!	2016/07/19 08:49:02 AM
	From: Dylan Thomas I swear they work! But I'm such a great customer, I'll update them anyway. Sincerely, Happy FoD customer	2016/07/19 06:23:04 AM
	From: Dylan Thomas Assessment for Drupal - 7.25 is waiting for customer meaning we are having properly. Assessment Type: Dynamic Tenant: Dylan Tenant Notes: The scan of your application has been paused because the credential working. Please verify the credentials and notify the Help Center with the u may complete your scan. To chat with an FoD representative or log a suppor Help Center link on the FoD portal. For immediate assistance, use the Help (800)893-8141. Without your response, your scan may be cancelled. We would appreciate it if you could log in and help us resolve the issues. You can access the Assessment by going to HTTPS://FODQA9-IIS2/Release Thanks, HP Security Services	als provided are not pdated information so we ort ticket, visit the FoD Center Voice Channel

5. In the Pending tickets section, click a ticket to view its comments.

6. Click Add Public Comment.

A text box appears below.

7. Type a comment that will be added to the ticket.

8. Click + Add Public Comment.

The comment is added to the ticket details in both the portal and Help Center.

Chapter 5: Remediating Vulnerabilities

When the testing team completes the scan, it publishes the scan results in the portal. Log in to Fortify on Demand to view your scan results and remediate vulnerabilities found in your application.

This section contains the following topics:

Reviewing Issues	
Issue Details	185
Updating Issues	197
Auditing Issue Remediation	
Audit Templates	206
Dataflow Cleanse Rules	215
Requesting a Remediation Scan	221

Reviewing Issues

You can view detailed information about the issues that were found in a scan at both the application and release levels. The Application Issues page displays issues found across all releases of an application (excluding retired releases) as well as Application Monitoring issues. The Release Issues page displays issues found across all scans of a release.

The Application Issues and Release Issues pages, sharing a similar layout and functionality, provide a single, consolidated view of issue data. A page is split into three panels:

- The navigation panel displays a list of the issues. Issues are organized by severity, with a tab for each severity level and a tab for all issues.
- The issue details panel displays details of the issue selected in the navigation panel. Details are organized among several tabs. The tabs that are available depend on the scan type in which the issue was found.
- The audit panel is collapsible. It displays user-remediation fields of the issue selected in the navigation panel as well as the issue status, the date the issue was introduced, and the date the issue was last found.

Status	Description
New	A vulnerability appeared for the first time in the latest scan.
Existing	A vulnerability in the latest scan has appeared in one or more previous scans,

Issues have one of the following statuses:

Status	Description
	including the one immediately preceding the latest one.
Reopen	A vulnerability appeared in the latest scan and has appeared previously, but not in the scan immediately preceding the latest one. In other words, the issue appeared, then did not appear in one or more scans, thereby seeming to be fixed, and then later came back again.
Fixed/Fix Validated	A vulnerability appeared at least once previously, but it was not identified in the latest scan. By default, Fortify on Demand doesn't show Fixed vulnerabilities—only issues from the most recent scan of a given type. To see Fixed vulnerabilities, select Show Fixed on the Release Overview and Issues pages.

This section contains the following topics:

Viewing Application Issues	
Viewing Release Issues	
Navigating the Issues Page	
Filtering the Issues Page	
Customizing Issue Filters and Groupings	

Viewing Application Issues

You can view issues from all releases (excluding retired releases) of an application, along with Application Monitoring issues.

To view issues at the application level:

1. Select the **Applications** view.

Your Applications page appears.

- 2. Click the name of the application that you want to view. The Application Overview page appears.
- 3. Click **Issues**.

The Application Issues page appears. Within a grouping, issues are sorted by file name, then line

Application Issues 🛓		Search Text	Q SHOW ▼
135 151 11 74 408	236150 http://zero.webappsecurity.com:80/acctxfercon	> Audit	expand all collapse all 🕴
Group By	5.4 Critical Cross-Site Scripting: Reflected	Status	✓ CUSTOM QUERIES
Category 🗸	Vulnerability Recommendations HTTP * More Evidence * History	New	\times > SQL Injection
		Introduced Date	✓ CANNED QUERIES
✓ Cross-Site Scriptin 90	Summary	2016/05/13	My Open Issues
1 > >	A Unicode conversion Cross-Site Scripting (XSS) vulnerability was found. This vulnerability is due	Last Found Date	> SEVERITY
/acctxferconfirm.asp	to an input validation error in the filtration of special HTML characters supplied as Unicode characters. If exploited, an attacker could craft a malicious link containing arbitrary HTML or script	2016/05/13	> CATEGORY
/acctxferconfirm.asp	code to be executed in a user's browser. Recommendations include modifying the web.config file to	Assigned User	> ASSIGNED USER
/acctxferconfirm.asp	use only Unicode code page for output or filtering full-width ASCII characters from all non-trusted data sources.	Huang, Yeu (Huang: 💙	> PACKAGE
/acctxferconfirm.asp		Developer Status	> SCAN TYPE
/acctxferconfirm.asp	Explanation	Open 🗸	> DEVELOPER STATUS
/acctxferconfirm.asp	The application fails to properly validate Unicode characters in the "Request Validation" and	Auditor Status	> HAS COMMENTS
/banklogin.asp?err=	"HttpServerUtility.HtmlEncode" security mechanisms. If exploited, an attacker could control the	Pending Review	> OWASP 2014 MOBILE TOP 10
	Web browser of other Web users who view the page by embedding malicious HTML tags and JavaScript. An attacker could use this technique to steal sensitive information such as credit card		> OWASP 2017 apply all chec
/banklogin.asp?err=	numbers, usernames, passwords, files, and session identifiers from the Web users.	Severity Critical	apply all chec
/banklogin.asp?err=	Instance ID: 2875ee6f-6083-4b8e-b035-d763108e54fc	childar •	
/banklogin.asp?err=	Primary Rule ID: 5172	Comment	
> Open Redirect 1	Standards and Best Practices		
> Path Manipulation 1	OWASP 2021		
> Poor Error Handli 6	A03 - Injection		
> Privacy Violation 2	OWASP 2017	ADD	
> SQL Injection 33	A7 - Cross-Site Scripting (XSS)		
> Web Server Misco 1	OWASP 2014 Mobile Top 10	SUBMIT BUG	
	M7 - Client Side Injection		
> XPath Injection 1	PCI 3.2	ADD AUDIT FILTER	

number. Issues with the same instance ID across multiple releases are combined in a single view.

Viewing Release Issues

You can view issues from a release of an application, including open source scan issues and onpremises scan issues.

To view issues at the release level:

1. Select the **Applications** view.

Your Applications page appears.

2. Click Your Releases.

Your Releases page appears.

- 3. Select a release from your list.
- 4. Click **Issues**.

The Release Issues page appears. Within a grouping, issues are sorted by file name, then line

number.

WebGoat (.NET) > 5.4 Release Issues 🛃		Search Text	৭ <mark>Show</mark> ▼
Category ✓ Category ✓ Coss-Site Scriptin	236150 http://zero.webappsecurity.com:80/acctxfercon	 Audit Stetus New Introduced Date 2016/05/13 Last Found Date 2016/05/13 Assigned User Huang, Yeu (Huang) 	expand all collapse all (a) CUSTOM QUERIES X> SQL Injection CANTED QUERIES My Open Issues > SEVERITY > CATEGORY > ASSIGNED USER > PACKAGE > SCAN TYPE
/acctxferconfirm.asp /acctxferconfirm.asp /acctxferconfirm.asp /banklogin.asp?err=_	Explanation The application fails to properly validate Unicode characters in the "Request Validation" and "httpServerUtility.HtmlEncode" security mechanisms. If exploited, an attacker could control the Web browser of here Web users who view the page by embedding malicious HTML tags and	Developer Status Open Auditor Status Pending Review	DEVELOPER STATUS HAS COMMENTS OWASP 2014 MOBILE TOP 10 OWASP 2017
/banklogin asp?err=_ /banklogin.asp?err=_ /banklogin.asp?err=_	The Diriver of Uniter web users and view ine page by entropologing instructs in the Lags and JavaScripti, An antiketer could use this technique to state sensitive informations such as credit card numbers, usernames, passwords, files, and session identifiers from the Web users. Instance ID: 2875ee6f-0083-468e-b035-d763108e54fc Primary Rule ID: 5172	Severity Critical V Comment	apply all checked
> Open Redirect 1 > Path Manipulation 1 > Poor Error Handli 6	Standards and Best Practices OWASP 2021 • A03 - Injection OWASP 2017		
Privacy Violation SQL Injection Vieb Server Misco. YzPath Injection	WASP 2017 A7 - Cross-Site Scripting (VSS) OWASP 2014 Mobile Top 10 W7 - Client Side Injection PCI 3.2	ADD SUBMIT BUG	

Navigating the Issues Page

The following tables describe how to navigate the Application Issues and the Release Issues pages.

General Navigation

Task	Action
Export issue data	Click . A link to download a CSV file is sent to the email address specified in your account settings. The link is valid for 7 days from the time the email is sent and can only be accessed by you.
	Note: The Export functionalities in the Tenant Dashboard, Your Releases, Application Issues, and Release Issues pages output the same column fields. Currently applied filters are also applied to the export.
Search issues	Type a keyword or phrase in the search text field and press Enter .
Hide or display the filter list	Click T .
Show or hide	Click Show Fixed to switch between showing and hiding Fix Validated issues.

Task	Action
fixed issues	
Show or hide suppressed issues	Click Show Suppressed to switch between showing or hiding Suppressed issues.
Save applied filters as query	Click Save Query.
Remove applied filters	Click X or Clear Filters .

Navigation Panel

Task	Action
Expand or collapse the panel	Click > or <.
View issues by severity level	Select one of the following tabs: Critical, High, Medium, Low, All.
Group displayed issues by an attribute	Select a value from the Group By list. Within a group, issues are sorted by filename and then line number.
View more details about an issue	Click the issue description.
Select multiple issues	Select the check boxes next to issues.
Cycle though issues in a group	Click the right and left arrows $\leftarrow \rightarrow$.

Issue Details Panel

Task	Action
View a specific instance of an issue found in multiple releases	Select the issue ID, specific to a release, from the drop-down list. The issue details panel on the Release Issues page defaults to the

Task	Action
	issue specific to that release.
	236466 minisites/calendar/scripts/calendar.php: 39 3.1 Critical Cross-Site Scripting: Reflected SMART FIX
View analysis trace diagram of an issue along with others in the same category.	Click the Smart Fix link. A full screen view of Smart Fix appears that displays all issues in the selected issue's category, highlighting the selected issue's data flow.
View specific details of an issue	Select a tab. For more information, see"Issue Details " on page 185

Audit Panel

Task	Action
Expand or collapse the panel	Click > or <.
Edit an issue	Edit the available fields. For more information, see "Updating Issues" on page 197.
Submit an issue to a bug tracker	Click Submit Bug . For more information, see "Submitting Issues to the Bug Tracker" on page 347.
Add an audit filter for an issue	Click Add Audit Filter . For more information, see "Creating an Application Audit Template Filter for an Issue" on page 212.

Filter List

Task	Action
Expand or collapse filters	Click expand all collapse all () or the arrow next to the filter name.
Apply a filter	Select a filter value. Click Apply if applicable. For more information, see "Filtering the Issues Page" on the next page.
Customize filter and grouping selections	Click 👸. For more information, see _{"Customizing Issue Filters and Groupings" on page 183}

Filtering the Issues Page

You can limit the issues displayed on the Application Issues page or the Release Issues page by applying filters.

To filter the Issues page:

- 1. Click **T** to display the filter list if it is not currently displayed.
- 2. Expand the filter(s) you want to apply.
- 3. Select the filter values that you want to filter for. The following table describes issue filters and their values.

Note: A filter only appears in the filter list when the results contain multiple values for that filter.

Filter	Description	Values
Assigned User	User defined	Not Set, User-defined
Auditor Status	Auditor issue remediation status. For more information, see "Audit Workflow for Auditors" on page 204.	Pending Review, Remediation Required, Remediation Referred, Risk Mitigated, Risk Accepted Not an Issue
Bug Submitted	Issue was submitted as a bug to a bug tracker.	False, True
Category	Issue category	
Canned Queries	Default queries	My Open Issues
Custom Queries	User-defined queries	User-defined
Developer Status	Developer issue remediation status.	Challenged, Open, IN Remediation, Remediated, Will Not Fix, Third Party Component
DISA STIG 4.11	DISA Application Security and Development STIG v4.11	

Filter	Description	Values
DISA STIG 5.1	DISA Application Security and Development STIG v5.1	
Has Attachments		False, True
Has Comments		False, True
Has Notes		False, True
Introduced Date	Original date of issue creation	
lssue Age	Number of days the issue has been present in the application. The categories are cumulative. For example, an issue that is counted as greater than 30 days old is also part of the count for greater than 10 days old.	>/< 5 days, >/< 10 days, >/< 30 days, >/< 60 days, >/< 45 days, >/< 90 days
OWASP 2013	OWASP top 10 2013 classification	
OWASP 2014 Mobile	OWASP mobile top 10 2014 classification	
OWASP 2017	OWASP top 10 2017 classification	
OWASP 2021	OWASP top 10 2021 classification	
OWASP ASVS 4.0	OWASP ASVS 4.0 classification	
Package		
Release	Note: The Release filter appears only on the Application Issues page.	
	Release in which the issue was identified	
Scan Tool	Scan tool used to find issue	DAST, SAST, MAST, Debricked, Sonatype
Scan Type	Scan type to which issue belongs	Application Monitoring,

Filter	Description	Values
		Dynamic, Static, Mobile, Open Source
Severity	Issue severity	Critical, High, Medium, Low, Best Practice, Info
Status	Issue status	New, Existing, Reopen, Fixed/Fix Validated

The Issues page automatically refreshes with your filtered results. Applied filters are shown at the top of the page.

4. To save the currently applied filters for reuse, click **Save Query**.

The Name Your Custom Query window opens.

Name Your Custom Query	×
Name	
	SAVE

5. Type a name for the query and click **Save**.

Your saved custom query appears in the **Custom Queries** filter. You can reapply the query at any time by selecting the query from the filters list.

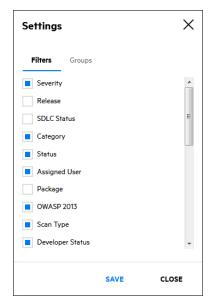


Customizing Issue Filters and Groupings

You can customize issue filters and groupings on the Application Issues or Release Issues page.

To customize issue filters and groupings:

 In the audit panel, click ⁽²⁾. The Settings window appears.



2. Perform the relevant task:

Task	Procedure
Customize issue filters	 a. Select the Filters tab. b. Select the check boxes next to filters you want to add. c. Deselect the check boxes next to filters you want to remove. d. Click Save. The Issues page refreshes with the new filters in the filters list. Note: A filter only appears in the filter list when the results contain multiple values for that filter.
Customize issue groupings (Group By options in the navgiation panel)	 a. Select Groups. b. Select the check boxes next to values you want to add to the Group By list. c. Deselect the check boxes next to values you want to remove from the Group By list. d. Click Save. The Issues page refreshes with the new group values.

Issue Details

The issue details panel on the Application Issues or Release Issues page provides comprehensive issue details that help you analyze the vulnerabilities found in the application. The details are organized among several tabs. The available tabs depend on the scan type in which the issue was found.

This section covers the following topics:

Static Scan Issue Details	
Open Source Scan Issue Details	188
Dynamic/Application Monitoring Scan Issue Details	191
Mobile Scan Issue Details	195

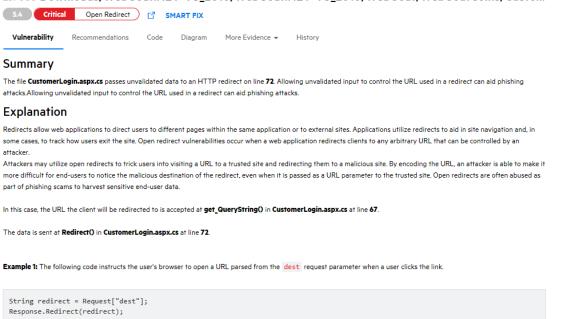
Static Scan Issue Details

The issue details panel for a static scan issue displays the issue ID, issue location, issue severity, and issue category across the top. Several tabs below provide additional information about the issue, including technical details, line of code (if source code was submitted), and an analysis trace diagram.

Vulnerability

The **Vulnerability** tab displays the following technical details about the issue: issue summary; explanation of the execution and implications of the issue; instance ID and rule ID; and standards and best practices information from Fortify Software Security Research.

237080 Downloads/WebGoat.NET-VS_2010/WebGoat.NET-VS_2010/WebGoat/WebGoatCoins/Custo...



Recommendations

The **Recommendations** tab displays recommendations to remediate the issue, along with tips and references for further research. If available, the **Interactive Training** section contains a link to interactive training for the issue category, provided by Secure Code Warrior. For more information about Secure Code Warrior, see "Secure Code Warrior Integration" on page 352.

237080 Downloads/WebGoat.NET-VS_2010/WebGoat.NET-VS_2010/WebGoat/WebGoatCoins/Custo...



```
String redirect = Request["dest"];
Int32 strDest = System.Convert.ToInt32(redirect);
if((strDest >= 0) && (strDest <= strURLArray.Length -1 ))
{
strFinalURL = strURLArray[strDest];
pageContext.forward(strFinalURL);
}
```

In some situations this approach is impractical because the set of legitimate URLs is too large or too hard to keep track of. In such cases, use a similar approach to restrict the domains that users can be redirected to, which can at least prevent attackers from sending users to malicious external sites.

Tips

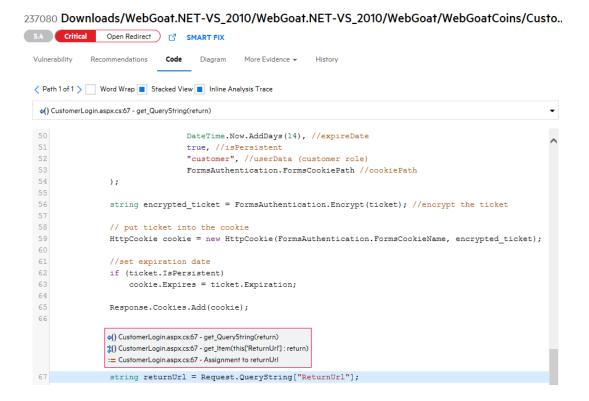
1. A number of modern web frameworks provide mechanisms for performing validation of user input. ASP.NET Request Validation and WCF are among them. To highlight the unvalidated sources of input, the HP Fortify Secure Coding Rulepacks dynamically re-prioritize the issues reported by HP Fortify Static Code Analyzer by lowering their probability of exploit and providing pointers to the supporting evidence whenever the framework validation mechanism is in use. In case of ASP.NET Request Validation, we also provide evidence for when validation is explicitly disabled. We refer to this feature as Context-Sensitive Ranking. To further assist the HP Fortify user with the auditing process, the Fortify Security Research Group makes available the Data Validation project template that groups the issues into folders based on the validation mechanism applied to their source of input.

Code

The **Code** tab displays the specific code where the issue was found. Users can perform the following actions to more easily review code:

- Enable or disable word wrap
- Cycle through multiple analysis traces, if applicable
- Switch between a stacked view of the code and tree view of the analysis trace alongside the code
- Jump to the line of code when selecting an analysis trade node in the tree view
- Enable and disable showing the inline analysis trace

Note: To view all issues in the selected issue's category, click the **Smart Fix** link.



Diagram

The **Diagram** tab displays an analysis trace diagram of the issue.

237080 Downloads/WebGoat.NET-VS_2010/WebGoat.NET-VS_2010/WebGoat/WebGoatCoins/Custo...

5.4 Critic	al Open Redirect) 🖒 🖇	SMART FIX	
Vulnerability	Recommendations	Code	Diagram	More Evidence 👻 History
				CustomerLogin.ButtonLogOn_Click
				() get_QueryString(return)
				(get_Item(this['ReturnUrl'] : return)
				:= Assignment to returnUrl
				() Redirect(0)

More Evidence

The **More Evidence** tab contains notes and screenshots, which are accessed separately through the drop-down menu.

- The **Notes** section displays notes from the testing team about the issue.
- The **Screenshots** section allows you to upload screenshots that provide contextual information about the issue. For more information, see "Uploading Screenshots" on page 203.

237080 Dow 5.4 Critica	_		ET-VS_20	010/WebGoat	NET-VS_	2010/WebG	ioat/WebGo	atCoins/Custo
Vulnerability	Recommendations	Code	Diagram	More Evidence 👻	History			
				There are no items	to display.			+ ADD SCREENSHOT

History

The **History** tab displays a log of the following issue events: audit changes, comments, and system events (status changes, copy state actions). You can filter the log by the event type (audit, bug tracker, comment, or system event).

237080 Downloads/WebGoat.NET-VS_2010/WebGoat.NET-VS_2010/WebGoat/WebGoatCoins/Custo...

5.4 Critica	Open Redirect	0	SMART FIX				
Vulnerability	Recommendations	Code	Diagram M	ore Evidence 👻	History		
			Audits	Comments	System Events		
Fortify on Deman	nd 2016/05/13 09:02:33 AM						
Issue found in sca	n 5194 of release 5.4.						
Add Comment							
							ADD

Open Source Scan Issue Details

The issues details panel for a open source scan issue displays the issue ID, issue location, issue severity, and rule ID at the top. Several tabs below provide additional information about the issue.

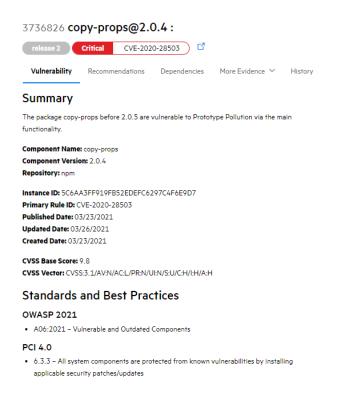
Note: If an open source issue is found to be a non-active vulnerability based on the most recent Sonatype scan, the issues details panel displays the message "This vulnerability is no longer listed as an active vulnerability." The issue status is also marked as **Fix Validated**. This does not apply to issues associated with open source components that have been removed.

Vulnerability

The **Vulnerability** tab displays the following technical details about the issue: vulnerability data from the scan tool used; instance ID and rule ID; file locations; and standards and best practices information from Fortify Software Security Research.

For more information on the vulnerability data from the scan tools, see the following links:

- Sonatype: https://guides.sonatype.com/iqserver/technical-guides/sonatype-vuln-data/
- Debricked: https://debricked.com/docs/security/security-about.html#data-refinement

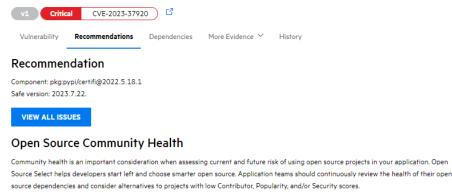


Recommendations

The **Recommendations** tab displays remediation information and references for further research. Click **View All Issues** to see all issues filtered by the package URL in the release.

In addition, Open Source Select health metrics are graphically displayed for Debricked issues. Open Source Select is a database of all open source projects on GitHub.

1828599 certifi@2022.5.18.1:



Click here for more details.

 \otimes Failed to retrieve the health metrics for this dependency.

References

1. https://github.com/pypa/advisory-db/blob/main/vulns/certifi/PYSEC-2023-135.yaml

Dependencies (Debricked, CycloneDX)

The **Dependencies** tab displays a visualized dependency tree for the vulnerable component. Dependency trees are not available for SBOMs that do not have dependency details. A dependency tree appears for each root node (direct dependency) that contains the vulnerable component.

Fortify recommends reviewing the dependency tree and using the root fix solution to resolve the issue. A root fix contains the next version of the direct dependency that does not contain a vulnerable version of the affected dependency. In simpler terms, the root fix is a solution to a dependency vulnerability that starts at the root of the dependency tree. For more information on using root fix, see How do I manually solve a vulnerability with the Root fix solution?.

- For an issue found in different lock files, selecting a lock file from the drop-down list displays the full path of the selected lock file.
- A dependency tree can be expanded and collapsed.
- Vulnerable nodes are marked in red.
- The number of dependency trees displayed are the number of root nodes that have a known safe version or are lockfile-only fixes.

Note: A lockfile-only fix means that you can regenerate the lockfile in your repository and the vulnerability will be resolved. You do not need to update the direct dependency; instead reinstall the same version (for example: run yarn update and generate a new yarn.lock file).

1828599 ce	rtifi@2022.5	.18.1:			
v1 Critica	CVE-2023-379	20 🗳			
Vulnerability	Recommendations	Dependencies	More Evidence 🗡	History	
Introduce	ed Through				
Pipfile.lock	✓ 1 file				1 direct dependency to update
certifi	2022.5.18.1	> 🥑 2023.7.2	2		

More Evidence

The **More Evidence** tab displays notes and screenshots, which are accessed separately through the drop-down menu.

- The **Notes** section displays notes from the testing team about the issue.
- The **Screenshots** section allows you to upload screenshots that provide contextual information about the issue. For more information, see "Uploading Screenshots" on page 203.



History

The **History** tab displays a log of the following events related to the issue: audit changes, comments, and system events (status changes, copy state actions). You can filter the log by the event type (audit, bug tracker, comment, or system event).

3736826 copy-props@2.0.4 :					
release 2 Critical CVE-2020-28503					
Vulnerability Recommendations Dependencies More Evidence	 History 				
Audits Comments System Events					
Fortify on Demand 06/16/2023 06 26 37 Issue found by Debricked in scan 53728 of release release 2.					
Fortify on Demand 06/16/2023 08 45 10 Issue found by Debricked in scan 53748 of release release 2.					
Add Comment					
	ADD				

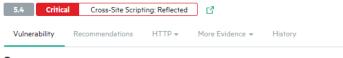
Dynamic/Application Monitoring Scan Issue Details

The issues details panel for a dynamic scan issue or application monitoring issue displays the issue ID, issue location, issue severity, and issue category at the top. Several tabs below provide additional information about the vulnerability, including technical details, request, and response.

Vulnerability

The **Vulnerability** tab displays the following technical details about the issue: issue summary, including instance ID and rule ID of the issue; explanation of the execution and implications of the issue; and standards and best practices information from Fortify Software Security Research.

236150 http://zero.webappsecurity.com:80/acctxferconfirm.asp



Summary

A Unicode conversion Cross-Site Scripting (XSS) vulnerability was found. This vulnerability is due to an input validation error in the filtration of special HTML characters supplied as Unicode characters. If exploited, an attacker could craft a malicious link containing arbitrary HTML or script code to be executed in a user's browser. Recommendations include modifying the web.config file to use only Unicode code page for output or filtering full-width ASCII characters from all non-trusted data sources.

Explanation

The application fails to properly validate Unicode characters in the "Request Validation" and "HttpServerUtility.HtmlEncode" security mechanisms. If exploited, an attacker could control the Web browser of other Web users who view the page by embedding malicious HTML tags and JavaScript. An attacker could use this technique to steal sensitive information such as credit card numbers, usernames, passwords, files, and session identifiers from the Web users.

Instance ID: 2875ee6f-6083-4b8e-b035-d763108e54fc Primary Rule ID: 5172

Standards and Best Practices

OWASP 2013

A3 - Cross-Site Scripting (XSS)

PCI 3.2

• 6.5.7 - Cross-Site Scripting (XSS)

FISMA

• SC

CWE

- CWE-811
- CWE-116
- CWE-80
- CWE-79

Recommendations

The **Recommendations** tab displays recommendations to remediate the issue, along with tips and references for further research. If available, the **Interactive Training** section contains a link to interactive training for the issue category, provided by Secure Code Warrior. For more information about Secure Code Warrior, see "Secure Code Warrior Integration" on page 352

236150 http://zero.webappsecurity.com:80/acctxferconfirm.asp

```
      54
      Critical
      Cross-Site Scripting: Reflected

      Vulnerability
      Recommendations
      HTTP +
      More Evidence +
      History

      Recommendation

      Recommendation

      Critical

      Cross-Site Scripting: Reflected

      Winerability

      Recommendation

      Recommendation

      Cross-Site Scripting: Reflected

      More Evidence +

      History

      Recommendation

      Recommendation

      Cross-Site Scripting: Reflected

      Recommendation

      Cross-Site Scripting: Reflected

      Recommendation

      Recommendation

      More Evidence +

      History

      No performance

      Configuration

      Cross-Site Scripting: Reflected

      Recommendation

      Recommendation

      Recommendation

      History

      <td col
```

If your application cannot use Unicode, you must filter full-width ASCII characters from all non-trusted data sources, such as user input, HTTP headers, some components output, and other data.

HTTP

The **HTTP** tab displays the content, headers, and parameters of the request and response, which are accessed separately through the drop-down menu.

Available for Application Monitoring issues, the **Evidences** section lists the complete session traffic that found the issue.

... .. • • ----. . . ~

236150 http://zero.webappsecurity.com:80/acctxferconfirm.asp
5.4 Critical Cross-Site Scripting: Reflected
Vulnerability Recommendations HTTP - More Evidence - History
Request
COPY WORD WRAP
<pre>POST /acctxferconfirm.asp HTTP/1.1 Referer: http://zero.webappsecurity.com:80/acctxfer.asp Content-Type: application/x-www-form-urlencoded Content-Length: 147 User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; SV1; .NET CLR 1.1.4 Accept: */* Pragma: no-cache Host: zero.webappsecurity.com Y-S-Can-Memo: Category="Audit"; Function="createStateRequestFromAttackDefinition";</pre>

finition"; : 10 Connection: Keep-Alive 11 Cookie: CustomCookie=WebInspect69383ZXB3FCEA2CCD6849B0A63D3EFF65615601Y3637;status= 13 fromAcct=<script>alert('vulnerability')</script>&toAcct=Household%20Checking&amount < >

Response

COPY WORD WRAP

```
1 HTTP/1.1 200 OK
2 Date: Fri, 13 May 2011 19:53:54 GMT
3 Server: Microsoft-IIS/6.0
4 X-Powered-By: ASP.NET
5 Content-Length: 2369
6 Content-Type: text/html
7 Cache-control: private
10
11 <html>
12 <head>
13 <title>Confirm Transfer Funds</title>
```

More Evidence

The More Evidence tab displays notes and screenshots, which are accessed separately through the drop-down menu.

- The **Notes** section displays notes from the testing team about the issue.
- The Screenshots section allows you to upload screenshots that provide contextual information about the issue. For more information, see "Uploading Screenshots" on page 203.

236150 http	://zero.webap	psecurity	.com:80/acc	txfe	erconfirm.asp
5.4 Critic	al Cross-Site Scrip	ting: Reflected	_ 1 2		
Vulnerability	Recommendations	HTTP 🔻	More Evidence 👻	His	story
There were no add	itional notes for this vulr	nerability instar	Notes		2
			Screenshots		

History

The **History** tab displays a log of the following issue events: audit changes, comments, and system events (status changes, copy state actions). You can filter the log by the event type (audit, bug tracker, comment, or system event).

236150 http://zero.webappsecurity.com:80/acctxferconfirm.asp	
5.4 Critical Cross-Site Scripting: Reflected	
Vulnerability Recommendations HTTP - More Evidence - History	
Fortify on Demand 2016/05/13 09:01:48 AM Issue found in scan 5193 of release 5.4.	Show Audits Comments
Yeu-Li.Huang@hp.com 2017/08/15 10:45:45 PM Changed user to 'HuangSLead2'	System Events
Add Comment	
	ADD

Mobile Scan Issue Details

The issues details panel for a mobile scan issue displays the issue ID, issue location, issue severity, and issue category across the top. Several tabs below provide additional information about the issue.

Vulnerability

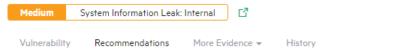
The **Vulnerability** tab displays the following technical details about the issue: issue summary; instance ID and rule ID; and explanation of the execution and implications of the issue.

1828599 certifi@2022.5.18.1: v1 Critical CVE-2023-37920 Vulnerability Recommendations Dependencies More Evidence Y History Summary Certifi is a curated collection of Root Certificates for validating the trustworthiness of SSL certificates while verifying the identity of TLS hosts. Certifi prior to version 2023.07.22 recognizes "e-Tugra" root certificates. e-Tugra's root certificates were subject to an investigation prompted by reporting of security issues in their systems. Certifi 2023.07.22 removes root certificates from "e-Tugra" from the root store. Component Name: certifi Component Version: 2022.5.18.1 Repository: pypi Instance ID: 9461FAD80E1B547C8962F0BFAE7C84DA Primary Rule ID: CVF-2023-37920 Published Date: 2023/07/25 Updated Date: 2023/07/25 Created Date: 2023/07/25 CVSS Base Score: 9.8 CVSS Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H Standards and Best Practices OWASP 2021 A06:2021 - Vulnerable and Outdated Components PCI 4.0 6.3.3 – All system components are protected from known vulnerabilities by installing applicable security patches/updates CWE • CWE-345

Recommendations

The **Recommendations** tab displays recommendations to remediate the issue, along with tips and references for further research. If available, the **Interactive Training** section contains a link to interactive training for the issue category, provided by Secure Code Warrior. For more information about Secure Code Warrior, see "Secure Code Warrior Integration" on page 352

466682 Application Binary



Recommendation

Remove any sensitive information from the Log statements within the application source code. As a best practice, use conditionals to control logging during debugging the application and disable logging when putting the application into production.

Tips

(There is no information to display.)

References

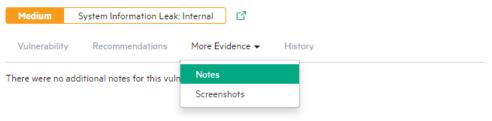
Reading and Writing Logshttp://developer.android.com/tools/debugging/debugging-log.html

More Evidence

The **More Evidence** tab contains notes and screenshots, which are accessed separately through the drop-down menu.

- The **Notes** section displays notes from the testing team about the issue.
- The **Screenshots** section allows you to upload screenshots that provide contextual information about the issue. For more information, see "Uploading Screenshots" on page 203.

466682 Application Binary



History

The **History** tab displays a log of the following issue events: audit changes, comments, and system events (status changes, copy state actions). You can filter the log by the event type (audit, bug tracker, comment, or system event).

466682 App	lication	Binary
------------	----------	--------

100002 / P		,		
Medium	System Information Leak	: Internal 🛛 🖸		
Vulnerability	Recommendations	More Evidence 👻	History	
				Show
				Audits
				Comments
				System Events
Add Comment				
				ADD

Updating Issues

Using the information provided in your scan results, remediate the vulnerabilities that were found. You can update issues at both the application and release levels for the purpose of tracking remediation efforts.

This section contains the following topics:

Editing an Issue	
Editing Multiple Issues	
Uploading Screenshots	

Editing an Issue

You can edit issues on both the Application Issues and the Release Issues pages. Users with the Edit issues permission can edit an issue's developer status and assigned user. Users with the Audit permission can also edit an issue's auditor status and severity.

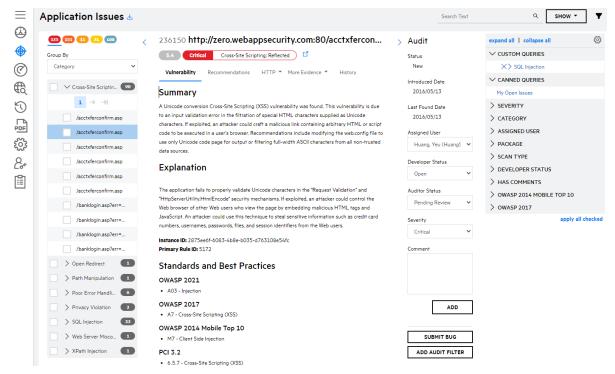
To edit an issue:

Note: The following instructions describe how to edit an issue on the Application Issues page. Selecting and updating issues works the same way on the Release Issues page.

1. Select the Applications view.

Your Applications page appears.

- 2. Click the name of the application with issues that you want to edit. The Application Overview page appears.
- 3. Click Issues.



The Application Issues page appears.

4. In the navigation panel, select the issue that you want to edit. If the issue is found in multiple releases, select a specific instance by selecting the issue ID, which is specific to the release, from the drop down list in the issue details panel.

5. In the audit panel, edit the fields as needed.

Field	Description
Assigned User	Select the user to be assigned the issue
Developer Status	Select the issue's development status. The default value is Open . Statuses fall under an open or closed state.
	 If you are reviewing the issue, select In Remediation.
	• If you have remediated the issue, select Remediated .
	• If you have decided not to remediate the issue, select Will Not Fix .
	• If the issue is in third-party code, select Third Party Component .
Auditor Status	Select the issue's audit status. The default state is Pending Review . Statuses
Sidius	fall under a non-suppressed or suppressed state.
	 Not Suppressed: Remediation Required, Remediation Deferred, Risk Mitigated
	Suppressed: Risk Accepted, Not an Issue
Severity	Select a different severity to change the default issue severity.
Comment	Type any supporting comments in the Comment field and click Add .

6. Refresh the Issues page to see your issue changes.

Note: If an issue was suppressed, it is hidden on the Issues page and only appears when **Show... Suppressed** is selected.

Related Topics

"Submitting Issues to the Bug Tracker" on page 347

Editing Multiple Issues

You can bulk edit multiple issues on both the Application Issues and the Release Issues pages.

To edit multiple issues:

Note: The following instructions describe how to edit multiple issues on the Application Issues page. Selecting and updating issues works the same way on the Release Issues page.

1. Select the **Applications** view.

Your Applications page appears.

2. Click the name of the application with issues that you want to edit.

The Application Overview page appears.

3. Click **Issues**.

\equiv	Application Issues 🕹		Search Text	Q SHOW ~ 🝸
(} () ()	10 0 2% 62% Group By ↓ ↓ Category ✓	340074 v minisites/calendar/scripts/calendar.php : 39 33 Critical Cross-Site Scripting: Reflected C ² SMART FIX	> Audit Status New	expand all collapse all () V CUSTOM QUERIES X > SQL Injection
© ∰ ()	$ ∨ Cross-Site Scripting: Reflec 3 $ $ 1 \rightarrow - i$ $ calendar.php: 39 $	Vulnerability Recommendations Code Diagram More Evidence History Summary Line 39 of calendar.php sends unvalidated data to a web browser, which can result in the browser executing malicious code. Code Sending unvalidated data to a web browser can result in the browser executing malicious code.	Introduced Date 2016/05/13 Last Found Date 2016/05/13	CANNED QUERIES My Open Issues SEVERITY CATEGORY
[팀 303	calendar.php : 39	Explanation Cross-site scripting (XSS) vulnerabilities occur when:	Assigned User (Not Set)	> ASSIGNED USER > PACKAGE > DEVELOPER STATUS
2°	header.php : 35 07 header.php : 41 07 index.php : 106 77	 Data enters a web application through an untrusted source. In the case of reflected XSS, the untrusted source is typically a web request, while in the case of persisted (also known as stored) XSS it is typically a database or other back-end data store. 	Developer Status Open V Auditor Status	AUDITOR STATUS AIDITOR STATUS FALSE POSITIVE CHALLENGE HAS COMMENTS
	index.php:369	In this case, the data enters at in calendar,php on line 24 . 2. The data is included in dynamic content that is sent to a web user without validation.	Pending Review V Severity Critical V	
	testStart.php : 102 ₽ Dangerous File Inclusion 122	In this case, the data is sent at builtin_echoO in calendar.php on line 39 . The malicious content sent to the web browser often takes the form of a JavaScript segment, but can also include	Comment	> STIG 4.11 > STIG 5.1
		HTML, Isash or any other type of code that the browser executes. The variety of attacks based on XSS is almost limitless, but they commonly include transmitting private data like cookies or other session information to the attacker, reflecting the victim to web content controlled by the attacker, or performing other malicious operations on the user's machine under the guise of the vulnerable site.	ADD	
	Path Manipulation Privacy Violation	Example 1: The following PHP code segment reads an employee ID, e1d, from an HTTP request and displays it to the user.	SUBMIT BUG	
	> Privacy Violation: Shoulder 2		ADD AUDIT FILTER	

The Application Issues page appears.

- 4. Perform the following actions to select multiple issues:
 - In the navigation panel, select the check boxes next to the issues.

Note: On the Release Issues page, you can select the **Include Issues From Other Releases** check box to select all instances of the issue found in releases. Issues can be individually removed.

Multiple Issue Audit

Ē	Application Issues	<u>ل</u> ا							Search Text	Q SHOW ~ Y
 	320 10 0 294 624 Group By	<			ue Audi	t		Assigned User		expand all collapse all @
© €	Category	58	Seleo ×	ISSUE ID	_	PRIMARY LOCATION	AUDITED	No Change Developer Status	~	CANNED QUERIES My Open Issues
IJ	1 → →		×	349074	3.2	calendar.php : 39	VIEW AUDIT DETAILS	No Change	~	> SEVERITY
PDF	calendar.php : 39	07 07	×	236460	3.1	calendar.php : 39	VIEW AUDIT DETAILS	Auditor Status No Change	~	> CATEGORY > PACKAGE
	calendar.php : 39 header.php : 35	69 69	•				,	Severity No Change	~	AUDITOR STATUS FALSE POSITIVE CHALLENGE
	header.php : 41 index.php : 106	69 69						Comment		> RELEASE > OWASP 2017 > STIG 5.1
	index.php : 369	67 67						SUBMIT CHAN	GES	> STIG 4.11 > OWASP 2014 MOBILE TOP 10
	share.php : 21	Ø						RESET VALU	ES	apply all checked
	testStart.php : 102	Ø						SUBMIT BU		

• In the navigation panel, select the check box next to a group name to select all issues in the group.

Note: On the Release Issues page, you can select the **Include Issues From Other Releases** check box to select issues found in the same release as a separate group. Release groups can be individually removed.

Μ	1ultiple Issue Audit						
	Include Issues From Other Releases						
\equiv	Jeopardy (PHP)						
	Application Issues 🕹					Search Text	ର୍ <mark>୨୦୦୦ କ</mark>
•	<u>320</u> 10 0 294 624 <	Multiple	Issue Aud	it			expand all collapse all
Ø	Group By						✓ CUSTOM QUERIES
€	Category 🗸	Selected (Groups 🗖			Assigned User	X > SQL Injection
Ū	Cross-Site Scriptin 38	ITEM COUNT	RELEASE	GROUP NAME		No Change 🗸	✓ CANNED QUERIES
-		19	3.1	Cross-Site Scripting: Reflected	×	Developer Status	My Open Issues
PDF						No Change 🗸	SEVERITY
533	calendar.php : 39 🗗	19	3.2	Cross-Site Scripting: Reflected	×	Auditor Status	> CATEGORY
	calendar.php : 39 🗗	61	3.1	Dangerous File Inclusion	×	No Change 🗸 🗸	> PACKAGE > AUDITOR STATUS
2~	calendar.php : 39 🗇	61	3.2	Dangerous File Inclusion	×	Severity	> AUDITOR STATUS > FALSE POSITIVE CHALLENGE
	header.php : 35 🗗					No Change 🗸	> RELEASE
	header.php : 41 🗗					Comment	> OWASP 2014 MOBILE TOP 10
	index.php : 106						> OWASP 2017
	index.php : 369 🗗					SUBMIT CHANGES	apply all checked
	share.php : 20						
	share.php : 21 🗗					CLEAR SELECTIONS	
	testStart.php : 102 🗗						
	Dangerous File Inc						

5. Perform the following tasks to edit audit fields:

Task	Description
Manually edit audit	In the audit panel, edit the fields as needed. The following fields are
fields	available for editing: Assigned User, Developer Status, Auditor

Task	Description				
	Status, Severity, and Comments.				
Copy audit details from one issue to	 a. In the issues panel, click View Audit Details in the row of the issue that you want to copy. 				
other issues	The Issue ID window appears.				
	Issue ID: 236519				
	Assigned User Smith, James				
	Developer Status Open				
	Auditor Status Pending Review				
	Severity Critical Latest Comment Comment				
	Audit and Comment History SELECT ALL				
	Yeu-Li.Huang@microfocus.com 2023/07/13 08:52:28 AM Comment				
	Yeu-Li.Huang@microfocus.com 2023/07/13 08:54:30 AM Changed user to 'SmithALead2'				
	Include Attachments The selected issue does not have any attachments.				
	COPY AUDIT DETAILS CANCEL				
	b. Select the audit and comment entries that you want to copy.				
	c. Select the Include Attachments check box to copy all attachments.				
	d. Click Copy Audit Details.				
	You are redirected to the Issues page. The audit values, along with selected audit entries, comments, and attachments, are applied to the other selected issues.				
	Important! Selected issues must have matching instance identifiers, otherwise you will not be able to proceed with copying audit details.				

6. Click Submit Changes.

The Issues page refreshes with your issue changes.

Related Topics

"Submitting Issues to the Bug Tracker" on page 347

Uploading Screenshots

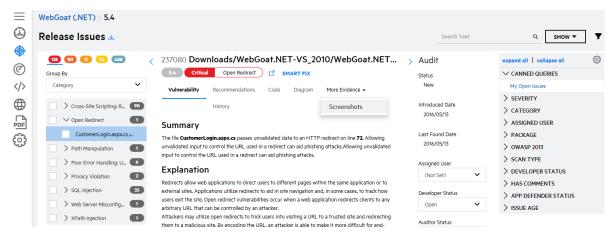
You can upload screenshots for an issue through the Application Issues or Release Issues page.

- Supported file types are.jpg, .gif, and .png.
- Files must be no larger than 3 MB.

There are two methods for uploading a screenshot: upload a saved file or copy and paste the image into the modal window.

To upload a screenshot for an issue:

1. In the issues detail panel, select the **More Evidence** tab > **Screenshots**.



2. Click +Add Screenshot.

The Screenshot modal window appears.

Screenshot	×
Upload Screenshot Copy and Paste Screenshot	
Description	
creenshot	
	UPLOAD

- 3. Choose one of the following ways to upload the screenshot:
 - To upload a file:
 - i. Select the **Upload Screenshot** tab.
 - ii. (Optional) Type a description of the file.

- iii. Click ... and browse to and select a screenshot.
- iv. Click Upload.
- To copy and paste the screenshot:
 - i. Select the Copy and Paste Screenshot tab.
 - ii. (Optional) Type a description of the file.
 - iii. Copy an image to your clipboard.
 - iv. Select the box and press **Crtl+V** to paste the image from the clipboard.
 - v. Click **Upload**.

The uploaded screenshot details and icons for viewing, saving, and deleting the screenshot appears in the tab.

lcon	Description
۲	View the screenshot in the browser.
<u></u>	Open the screenshot or save it to your local system.
×	Delete the screenshot.

Auditing Issue Remediation

Fortify on Demand enables an organization's development and security teams to audit issue remediation, where different user roles participate in the issue remediation workflow. Users with the **Edit Issues** permission, typically the development team, receive the issues and decide whether to remediate them or not. Users with the **Audit Issues** permission, typically the security team, validate the issues after the development team is finished and decide whether to suppress them or not. Users with the **View Issues** permission can view issues, but cannot make any changes.

This section contains the following topics:

Audit Workflow for Auditors	204
Audit Workflow for Developers	205

Audit Workflow for Auditors

The following procedures describes the typical workflow that a security team follows for assigning new issues and reviewing closed issues.

Auditors from the security team need the Audit issue permission, which allows editing of the **Auditor Status** and **Severity** fields.

Assigning a New Issue

A new issue arrives in the queue with the following default values:

- Developer Status: Open
- Users: (Not Set)
- Auditor Status: Pending Review
- Severity: Fortify on Demand-ranked default

The security team reviews the issue and assigns it to a developer for remediation.

To assign a new issue to a developer for remediation:

- 1. Review an issue that has the **Developer Status** set as **Open**.
- 2. If needed, select a different issue severity from the **Severity** list. For more information on issue severity, see "Priority Order" on page 18.
- 3. Select the developer to be assigned the issue from the **User** list.

Reviewing Closed Issues

After working on the issue, the developer changes the **Developer Status** to a closed state (**Remediated**, **Will Not Fix**, **Third Party Component**). The issue then returns to the security team issue queue for auditing.

To review a closed issue:

- 1. Audit the change made to the closed issue.
- 2. Based on your assessment of the change, decide whether to suppress or not suppress the issue and select the corresponding reason from the **Auditor Status** list.
 - Not Suppressed: Remediation Required, Remediation Deferred, Risk Mitigated
 - Suppressed: Risk Accepted, Not an Issue
- 3. If you selected **Remediation Required**, reassign the issue to a developer.
- 4. Add any supporting comments.

Audit Workflow for Developers

The following procedures describe the typical workflow a development team follows for remediating and closing an issue.

Developers from the development team need the Edit issue permission, which allows editing of the **Developer Status** and **User** fields.

Remediating an Issue

The security team assigns an open issue to a developer for remediation.

To remediate an issue:

- 1. Set the Developer Status to In Remediation.
- 2. Review the issue and perform one of the following actions:

- Remediate the issue.
- Do not remediate the issue.

Closing an Issue

To close an issue:

1. Once you have finished working on the issue, set the **Developer Status** to **Remediated**, **Will Not Fix**, or **Third Party Component**.

The issue is closed at this point.

- 2. Add any supporting comments.
- 3. Select the auditor to review the issue from the **User** list.

Audit Templates

Audit templates allow audit decisions to be systematically applied to static, dynamic, mobile, and open source scans. An audit template consists of custom filters that either suppress issues or change issue severity across all scans of the specified type.

An audit template can be created for each scan type at the global and application levels. Security Leads can manage global audit templates; users with the **Audit Issues** permission can manage audit templates for applications to which they have access.

Important! Audit template is an advanced feature and can lead to significant changes in vulnerability metrics and reporting. Fortify strongly recommends that you review the documentation before using audit templates. If you have additional questions, contact the support team.

This section contains the following topics:

Creating a Global Audit Template	206
Creating an Application Audit Template	209
Creating an Application Audit Template Filter for an Issue	212
Audit Template Usage and Examples	214

Creating a Global Audit Template

Security Leads can manage global audit templates. Global audit templates apply to all scans of the specified type across the tenant.

Audit templates are subjected to the following conditions:

- Audit template filters are case insensitive.
- Newly created or modified audit template filters are applied to scans published moving forward.

To create a global audit template:

1. Select the **Administration** view.

The User Management page appears.

2. Click **Audit Tools**.

The Advanced Audit Tools page appears.

- 1			
=	Advanced Audit Tools ®		
88 ©	Global Audit Template Dataflow Cleanse Rules		
	Audit templates allow audit decisions to be systematically applied to static, dynamic or mobile scans. Global audit templates consist of customizable filters that	+ ADD FILTER	SAVE
٢ <u>٠</u>	either suppress or change the severity of issues across all scans of the selected type. The filters are aggregated sequentially in the order specified to create a single overall set of audit decisions, which are applied automatically when a scan is published.		
	Audit templates are an advanced feature and can lead to significant changes in vulnerability metrics and reporting. We strongly encourage users to review the		
5	documentation before creating or modifying audit templates and to contact our support team if you have questions.		
	Scan Type:		
_	Static 🗸		
÷			
5			
U			
l l			

- 3. On the **Global Audit Template** tab, select the scan type to which the global audit template will be applied from the **Scan Type** list.
- 4. Perform the following steps to add a filter. You can add multiple filters.

a. Click Add Filter.

A blank filter appears.

∷ If	(Choose One)	•	(Choose One)	• Va	alue		×
Then	(Choose One)	•				т 	

- b. Specify the filter conditions.
 - i. In the **IF** row, select an issue attribute or a custom attribute for which to filter:

Note: Static, dynamic, and mobile issue attributes are set by Fortify Software Security Content. Open source issue attributes are set by Sonatype.

Field	Scan Type	Description
Severity	Static, dynamic, mobile, open source	Issue severity

Field	Scan Type	Description
Rule ID	Static, dynamic, mobile, open source	A unique identifier for the rule that identified an issue. You can find the Rule ID on the Vulnerability tab of the issue details panel.
Kingdom	Static, dynamic, mobile	Seven Pernicious Kingdoms classification
Category	Static, dynamic, mobile	Vulnerability category, which contains one or more rule IDs. A filter based on a category will be applied to all rule IDs belonging to that category.
<custom Application Attribute></custom 	Static, dynamic, mobile	Custom attributes in your tenant (picklist, text, and boolean)
URL	Dynamic, mobile	Issue URL
Body	Dynamic, mobile	HTTP message body
Headers	Dynamic, mobile	HTTP request header
Parameters	Dynamic, mobile	HTTP query parameters
Component Name	Open source	Component name
Component Version	Open source	Component version

ii. Select one of the following operators:

Operator	Description
Contains	Searches for results that contain the specified value

Operator	Description
Does Not Contain	Searches for results that do not contain the specified value
Equals	Searches for an exact match of the specified value
Does Not Equals	Searches for results that do not match the specified value

iii. Enter the value for the issue attribute. Wildcards are not accepted.

Note: If you previously selected a custom picklist or boolean attribute and the **Equals** operator, the values are prepopulated.

- iv. If needed, click + to create additional filter conditions.
- v. Select And or Or to combine multiple filter conditions
- c. In the **THEN** row, select one of the following audit actions to apply to matching results:

Operator	Description
Suppress	Suppresses matching results
Set Severity	Sets issue severity of matching results to the specified value

- 5. To rearrange the location of a filter, click **:** and drag the filter to your desired slot.
- Once you are done adding and arranging filters, click Save.
 The global audit template is saved.

Related Topics:

For information on creating an application audit template, see "Creating an Application Audit Template" below.

Creating an Application Audit Template

Users with the **Audit Issues** permission can manage audit templates for applications to which they have access. An application audit template applies to all scans of the specified type for the application.

Audit templates are subjected to the following conditions:

- Audit template filters are case-insensitive.
- Newly created or modified audit template filters are applied to scans published moving forward.

To create an application audit template:

1. Select the **Application** view.

Your Applications page appears.

2. Click the name of the application for which you want to create an application audit template.

3. Click Audit Tools.

The Advanced Audit Tools page appears.

=	WebGoat (.NET)
	Advanced Audit Tools ®
•	Application Audit Template Application Datatiow Cleanse Rules
	Audit templates allow audit decisions to be systematically applied to stallic, dynamic or mobile scans. Application audit templates consist of customizable filters that either suppress or change the sevenity of issues across all scans of the selected type for this application. Global audit template filters, and then application for the selected type for this application. Global audit template filters, and then application for the selected type for this application. Global audit template filters, and then application sequentially when as scan is publiched. ADD FILTER starter are applied automatically when as scan is publiched. Additer templates and to significant changes in vulnerability metrics and reporting. We strongly encourage users to review the documentation before creating or modifying audit templates and to contact our support team if you have questions.
یک کہ ا	Scan Type: Static V

- 4. On the **Application Audit Template** tab, select the scan type to which the application audit template will be applied from the **Scan Type** list.
- 5. Perform the following steps to add a filter. You can add multiple filters.

a. Click **Add Filter**.

A blank filter appears.

∷ If	(Choose One)	▼ (Choose One)	▼ Velue] +	×
Then	(Choose One)	·			

- b. Specify the filter conditions.
 - i. In the **IF** row, select one of the following issue attributes for which to filter:

Note: Static, dynamic, and mobile issue attributes are set by Fortify Software Security Content. Open source issue attributes are set by Sonatype.

Field	Scan Type	Description
Severity	Static, dynamic, mobile, open source	Issue severity.
Rule ID	Static, dynamic, mobile,	A unique identifier for the rule that identified an issue. You can find the Rule ID on the Vulnerability tab when viewing issue details.

Field	Scan Type	Description
	open source	
Kingdom	Static, dynamic, mobile	Seven Pernicious Kingdoms classification.
Category	Static, dynamic, mobile	Vulnerability category, which contains one or more rule IDs. A filter based on a category will be applied to all rule IDs belonging to that category.
File	Static	Full file path
Package	Static	Package or namespace
Source	Static	Dataflow source function
Sink	Static	Dataflow sink function
URL	Dynamic, mobile	Issue URL
Body	Dynamic, mobile	HTTP message body
Headers	Dynamic, mobile	HTTP request header
Parameters	Dynamic, mobile	HTTP query parameters
Component Name	Open source	Component name
Component Version	Open source	Component version

ii. Select one of the following operators:

Operator	Description
Contains	Searches for results that contain the specified value

Operator	Description
Does Not Contain	Searches for results that do not contain the specified value
Equals	Searches for an exact match of the specified value
Does Not Equals	Searches for results that do not match the specified value

- iii. Enter the value for the issue attribute. Wildcards are not accepted.
- iv. If needed, click + to create additional filter conditions.
- v. Select **And** or **Or** to combine multiple filter conditions .
- c. In the **THEN** row, select one of the following audit actions to apply to matching results:

Operator	Description
Suppress	Suppresses matching results
Set Severity	Sets issue severity of matching results to the specified value

- 6. To rearrange the location of a filter, click **:** and drag the filter to your desired slot.
- Once you are done adding and arranging filters, click Save. The application audit template is saved.

Related Topics:

For information on creating a global audit template, see "Creating a Global Audit Template" on page 206.

Creating an Application Audit Template Filter for an Issue

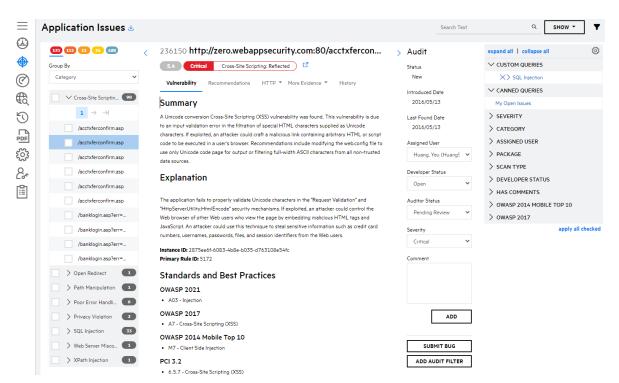
In addition to creating an application audit template from the ground up, users with the **Audit Issues** permission can create application audit template filters for an issue from the Issues page. This enables auditors to easily apply audit decisions to issues while reviewing them.

To create an application audit template filter for an issue:

1. Select the **Applications** view.

Your Applications page appears.

- 2. Click the name of the application that you want to audit.
 - The Application Overview page appears.
- 3. Navigate to the Application Issues or Release Issues page.



4. In the audit panel, click Add Audit Filter.

The Audit Template window appears.

- 5. Perform the relevant task:
 - If the selected issue has existing filters that apply, those filters are displayed. You can edit the filters.

Note: If multiple filters apply and one of them is a suppression, only that filter is displayed.

Audit Template		×
The following filter(s) already exist in your application audit templat	te.	
If Category Equals cross-site scripting: reflected Then Set Severity To High		
	EDIT FILTER(S)	CLOSE

i. Click Edit Filter(s).

You are redirected to the Application Audit Template page.

- ii. Edit the existing filters as necessary.
- If the selected issue does not have any filters that apply, you can create a new filter from a list of predefined conditions that apply to the issue.

Audit Templat	e		×
Audit templates consis when a scan is publishe		uppress or change the severity of issue	s automatically
Apply Filter when all of	the selected conditions apply.		
Category Equ	als Cross-Site Scripting: Reflected		
Rule ID Equals	5172		
Severity Equa	s Critical		
Kingdom Equa	is Input Validation and Represent	ation	
-	tp://zero.webappsecurity.com:80		
	sPhrase=%u0031%u0032%u0033% 073%u0063%u0072%u0069%u007(u0034%u0035&)%u0074%uFF1E%u0061%u006C%u00	65%00072%00074
		32%u0030%u0077%u0061%u0073%u0	
Perform the following a	action-		
 Suppress 			
Set Severity	(Choose One)	~	
		CREATE FILTER	CLOSE

- i. Select the filter conditions. Multiple conditions are joined with the AND operator.
- ii. Select the audit action.
- iii. Click **Create Filter**. Your application audit template filter is saved.

Audit Template Usage and Examples

Audit template filters are aggregated sequentially in the order in which they appear. Global audit templates filters are aggregated first, then application audit template filters, to create a single overall set of audit decisions that are applied automatically when a scan is published. Issue changes as a result of audit templates appear in the **History** tab of the issue details panel as **Audit** type events. Global audit and application audit changes are logged separately.

In general, Fortify recommends using category-based filters over rule-based filters, with the exception of a few scenarios where using rule-based filters might be more appropriate. For example, you might want to use rule ID-based filters to handle different remediation policies around SSL/TLS checks in dynamic scans.

As changes are made to categories and rules with each security content update, it is important to review your filters after each security content update and update the filters as necessary:

- New categories might be added.
- Category names might be changed. You will need to update any category-based filters to reflect the changed names.
- New rules might be added to categories. Existing category filters will also apply to new rules. Note that new rules might cover new, critical vulnerabilities that are distinctly different from existing rules in a category.
- Existing rules might be updated to reflect new guidance and industry standards. For example, the severity given to a vulnerability might increase due to new information about the vulnerability.

For more information on category and rule changes, see the Fortify Software Security Content quarterly updates from Fortify Software Security Research (SSR). You can access them from the Help Center.

The following examples show several filter combinations and how they are applied.

Example 1:

Audit template filters:

1. If Severity Equals Critical, then Set Severity to High

2. If Severity Equals Critical, then Set Severity to Medium

Result: Critical issues are set to Medium for the selected scan type.

Example 2:

Audit template filters:

1. If Severity Equals Critical, then Set Severity to High

2. If Severity Equals High, then Set Severity to Medium.

Result: Critical issues are set to High, High issues are to set Medium for the selected scan type.

Example 3:

Audit template filter: If Rule ID Equals 11516, then Suppress.

Result: Issues with rule ID 1156 are suppressed for the selected scan type

Example 4:

Global audit template filter: If Severity Equals Critical, then Set Severity to High

Application audit template filter: If Severity Equals Critical, then Set Severity to Medium

Result: Critical issues are set to High for all scans of the selected type, but Critical issues are set to Medium for scans of the selected type for the application above.

Dataflow Cleanse Rules

Dataflow cleanse rules describe validation logic and other actions that render tainted data (usercontrolled input) cleansed. Dataflow cleanse rules are incorporated in a static scan to help Fortify Static Code Analyzer recognize cleansing functions. As a result, dataflow cleanse rules help prevent false positives around dataflow issues.

Dataflow cleanse rules can be created at the global and application levels. Security Leads can manage global dataflow cleanse rules; users with the **Audit Issues** permission can manage dataflow cleanse rules for applications to which they have access.

Important! Dataflow cleanse rule is an advanced feature and can lead to significant changes in vulnerabilities found in a scan. Fortify strongly recommends that you review the documentation

before using dataflow cleanse rules. If you have additional questions, contact support.

This section contains the following topics:

Creating a Global Dataflow Cleanse Rule	216
Creating an Application Dataflow Cleanse Rule	218
Dataflow Cleanse Rule Usage and Examples	220

Creating a Global Dataflow Cleanse Rule

Security Leads can manage global dataflow cleanse rules. Global dataflow cleanse rules apply to all static scans in the tenant.

Dataflow cleanse rules are subjected to the following conditions:

- Dataflow cleanse rules are case-sensitive and are restricted to alphanumeric characters.
- Dataflow cleanse rules are applied to scans that are started moving forward.

To create a global dataflow cleanse rule:

1. Select the **Administration** view.

The User Management page appears.

2. Click Audit Tools.

The Advanced Audit Tools page appears.

3. Select the Dataflow Cleanse Rules tab.

≡	Advanced Audit Tools ®	
88 []	Global Audit Template Dataflow Cleanse Rules	
<u>نې</u>	Dataflow Cleanse Rules are incorporated into the static scan to help Fortity SCA recognize cleansing functions and prevents false positives around dataflow issues.	+ ADD RULE
	Dataflow Cleanse Rules are an advanced feature and can lead to significant changes in vulnerabilities found. We strongly encourage users to review the documentation before creating or modifying Custom Rule Templates and to contact our support team if you have questions.	
5	There are no items to display.	
Ð		
\mathbb{O}		
l l		

- 4. Perform the following steps to add a rule. You can add multiple rules.
 - a. Click **Add Rule**.

The Add Rule window opens.

Add Rule		×
Language (Choose One) V	Category (Choose One)	~
Package Name 🜖	Data Validation () (Choose One)	~
Class Name 🚯		
Function Name 9		
	SA\	/E CANCEL

b. Complete the fields as needed. Fields are required unless otherwise noted.

Field	Description
Language	Select the technology stack.
Package Name	(Optional) Type the name of the package or namespace that contains the validation function. If you do not specify a package name, the rule only matches functions that are not inside a package.
Class Name	(Optional) Type the name of the class that contains the validation function. If you do not specify a class name, the rule only matches functions that are not inside a class. To specify a nested class, use the dot notation (for example, OuterClass.NestedClass).
	Note: For .NET languages, the convention for the class name of a generic class is to append the class name with an @ and the number of type parameters. Example: for System.Func <t, tresult="">, the class name would be Func@2.</t,>
Function Name	Type the name of the validation function.
Category	Select the vulnerability category that is remediated by the validation function.

Note: Rules do not apply against interfaces or super classes.

Field	Description
Data	Select the data that has been validated by the function:
Validation	<pre>° Return Value: use this option to refer to value in value = web.getWebInput(foo, bar)</pre>
	$^\circ$ Object Function : use this option to refer to web in
	<pre>value = web.getWebInput(foo, bar) or object in object = new MyObject()</pre>
	• Argument : use this option when refering to
	arguments of the function. Arguments are indexed
	beginning with 0. For example, specify 1 to refer to
	<pre>bar in value = web.getWebInput(foo, bar)</pre>

Once you are done adding rules, click Save.
 The global dataflow cleanse rules are saved.

Creating an Application Dataflow Cleanse Rule

Users with the **Audit Issues** permission can manage dataflow cleanse rules for applications to which they have access. Application dataflow cleanse rules apply to all static scans for the application.

Dataflow cleanse rules are subjected to the following conditions:

- Dataflow cleanse rules are case-sensitive and are restricted to alphanumeric characters.
- Dataflow cleanse rules are applied to scans that are started moving forward.

To create an application dataflow cleanse rule:

1. Select the **Application** view.

Your Applications page appears.

- 2. Click the name of the application for which you want to create an application audit template.
- 3. Click Audit Tools.

The Advanced Audit Tools page appears.

4. Select the **Dataflow Cleanse Rules** tab.

₹	WebGoat (.NET)
٨	Advanced Audit Tools ®
⊕ ⊘	Application Audit Template Application Dataflow Gense Rules
€	Dataflow Cleanse Rules are incorporated into the static scan to help Fortify SCA recognize cleansing functions and prevents false positives around dataflow issues.
U	Dataflow Cleanse Rules are an advanced feature and can lead to significant changes in vulnerabilities found. We strongly encourage users to review the documentation before creating or modifying Custom Rule Templates and to contact our support team if you have questions.
PDF	There are no items to display.
ŝ	
2*	

- 5. Perform the following steps to add a rule. You can add multiple rules.
 - a. Click Add Rule.

The Add Rule window opens.

Add Rule		×
Language (Choose One)	Category (Choose One)	~
Package Name ()	Data Validation () (Choose One)	~
Class Name 🕄		
Function Name 🜖		
	SAVE	CANCEL

b. Complete the fields as needed. Fields are required unless otherwise noted.

Note: Rules do not apply against interfaces or super classes.

Field	Description
Language	Select the technology stack.
Package Name	(Optional) Type the name of the package or namespace that contains the validation function. If you do not specify a package name, the rule only matches functions that are not inside a package.
Class Name	(Optional) Type the name of the class that contains the validation function. If you do not specify a class name, the rule only matches functions that are not inside a class. To specify a nested class, use the dot notation (for example, OuterClass.NestedClass).

Field	Description
	Note: For .NET languages, the convention for the class name of a generic class is to append the class name with an @ and the number of type parameters. Example: for System.Func <t, tresult="">, the class name would be Func@2.</t,>
Function Name	Type the name of the validation function.
Category	Select the vulnerability category that is remediated by the validation function.
Data Validation	 Select the data that has been validated by the function: Return Value: use this option to refer to value in value = web.getWebInput(foo, bar) Object Function: use this option to refer to web in value = web.getWebInput(foo, bar) or object in object = new MyObject() Argument: use this option when refering to arguments of the function. Arguments are indexed beginning with O. For example, specify 1 to refer to bar in value = web.getWebInput(foo, bar)

Once you are done adding rules, click Save.
 The application dataflow cleanse rules are saved.

Dataflow Cleanse Rule Usage and Examples

Global and application dataflow cleanse rules are aggregated into a single set of rules that are applied during a scan. Issues that are removed based on rules do not appear in the FPR.

The following examples show several dataflow cleanse rules and how they are applied.

Example 1:

```
Language: Java
Package Name: com.fortify.appsec
Class name: Validation
Function Name: validateAlphaNumeric
```

Category: SQL Injection

Data Validation: Return Value

Result: The return value of the method is considered cleansed and will not be flagged as a SQL Injection issue.

Example 2:

Language: Java
Package Name: java.util
Class name: Map
Function Name: clear
Category: SQL Injection
Data Validation: Object Function
Result: The data is considered cleansed after a call to

Result: The data is considered cleansed after a call to the Map.clear() method and will not be flagged as a SQL Injection issue.

Requesting a Remediation Scan

After changes have been made to fix the issues identified in the initial scan, you can request a remediation scan to verify whether the issues have been fixed. Assessments include one or more remediation scans:

- Single assessments include one remediation scan.
- Subscriptions include unlimited remediation scans during the remediation scan period.

Fortify on Demand typically limits a remediation scan to 30 days after the initial scan. Exceptions are noted in your contract.

Request a remediation scan by selecting **<assessment_type> - Remediation** on the Scan Setup page. The remediation scan must be performed on the same application. For example, if the initial scan was done on the pre-production site, the remediation scan must also be on the pre-production site. A remediation scan takes less time than a full initial scan.

Note: For a dynamic scan, the following fields are locked to the values specified in the initial scan: Dynamic Site URL, Environment Facing, Scan entire host, Restrict scan to URL directory and subdirectories, Allow HTTP (:80) and HTTPS (:443), Allow form submissions, and Exclude URLs which contain <*exclusion*>.

Chapter 6: Dashboards and Reports

Fortify on Demand delivers assessment results in a variety of formats for viewing and analyzing data.

Dashboards provide a visual display of key metrics. Users can configure multiple dashboards to display data that is relevant to their needs. While dashboards are useful for general summaries, users can get a detailed view of assessment results through reports. Fortify on Demand provides a comprehensive and customizable suite of reports.

This section contains the following topics:

Dashboards	2
Reports	3

Dashboards

A dashboard is made up of individual tiles that each present a specific facet of data as a visual element. You are initially provided with one of the following default dashboard configurations based on your user role:

- Development dashboard for Developer, Lead Developer, and Application Lead roles
- Security dashboard for Security Lead and TAM roles
- Management dashboard for Executive and Reviewer roles
- Management dashboard for custom roles

You can edit the default dashboard as well as create additional dashboards.

This section contains the following topics:

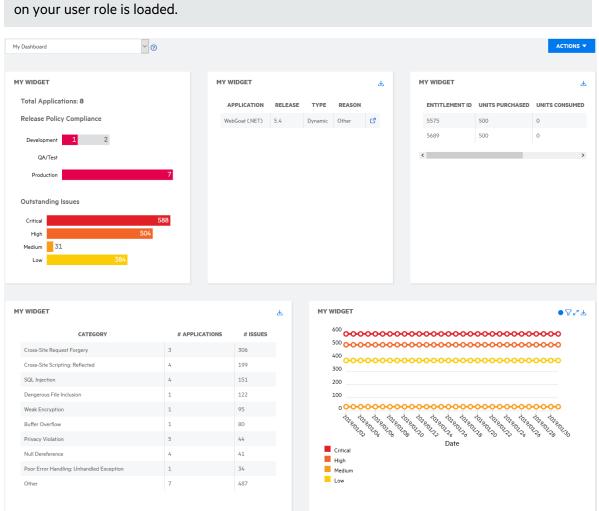
Viewing Dashboards	
Dashboard Graph Types	
Creating a Dashboard	
Editing a Dashboard	
Deleting a Dashboard	231

Viewing Dashboards

To view your dashboards:

1. Select the **Dashboard** view.

The dashboard page appears. It displays the last dashboard that was loaded.



Note: If you have not yet configured a dashboard, a default dashboard configuration based on your user role is loaded.

2. Select the dashboard that you want to view from the drop-down list.

The selected dashboard is loaded.

The following table describes how to navigate the dashboard page.

Task	Action
Create a dashboard	Select Actions > New Dashboard . For more information, see "Creating a Dashboard" on page 227.
Edit the dashboard	Select Actions > Edit Dashboard . For more information, see "Editing a Dashboard" on page 229.
Generate a PDF of the dashboard	Select Actions > Print .

Display or hide data point markers	Click • in a trending chart tile.
View filters applied to a tile	Click 7.
Export data that makes up a tile	Click . A .csv file is saved locally to the folder specified in your browser settings.
View details of a scan	Click 🖻 in a list grid tile.
Expand a tile	Click \mathbb{R}^{n} in a trending chart tile.

Dashboard Graph Types

The following tile types are available in a dashboard:

- Gauge
- List Grid
- Summary
- Trending Chart

Gauge

The **Gauge** tile is a gauge graph summarizing one of the following data items: assessed releases, auditor status, developer status, entitlement consumption, issue assignment, and security compliance.

Data Item Type	Description
Assessed Releases	Assessment state of issues
Auditor Status	Auditor status of issues
Developer Status	Developer status of issues
Entitlement Consumption	Usage of active entitlements
Issue Assignment	Assignment state of issues
Security Compliance	Policy compliance status across releases

User Guide Chapter 6: Dashboards and Reports

SECURITY POLICY COMPLIA	NCE
31.64 %	10.91 %
	57.45 %
Failed (87 Releases)	
Passed (30 Releases) Unassessed (158 Releases)	

List Grid

The **List Grid** tile is a list or grid view of one of the following data items: active entitlements, canceled scans, completed scans, in progress scans, most prevalent issues, my issues, paused scans, and scheduled scans. For scans, the List Grid also contains links to the relevant Scan Setup page or Scans page.

Data Item Type	Description
Active entitlements	Active entitlements
Canceled scans	Scans that were canceled
Completed scans	Scans that were completed
In progress scans	Scans currently in progress
Most prevalent issues	Most prevalent issues across all applications
My issues	Issues assigned to the current user account
Paused scans	Scans paused by the testing team
Scheduled scans	Scans that have been scheduled

ъ ^р Р	AUSED SCANS				₹
	APPLICATION	RELEASE	TYPE	REASON	
	WebGoat (.NET)	5.4	Dynamic	Other	C7

Summary

The **Summary** tile is a quick summary of the security risk of your releases. It shows the total number of applications in the portfolio and the following information about development, QA, and production releases: security policy compliance and outstanding issues (issues that are not fix validated or suppressed).

APPLICATION SECURITY PROGRAM
Total Applications: 8
Release Policy Compliance
Development 1 2
QA/Test
Production 7
Outstanding Issues
Critical 588
High 504
Medium 31
Low 384

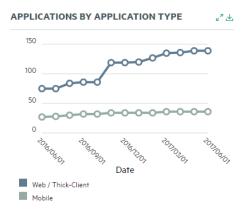
Trending Chart

The **Trending Chart** tile is a line graph of one of the following data items over time: applications, entitlements, issues, releases, and scans. Data series are grouped by a specified attribute.

Data Item Type	Description
Applications	Number of applications, grouped by an application attribute
Entitlements	Number of entitlement units, grouped by units purchased, consumed, or available
lssues	Number of issues, grouped by an issue attribute
Releases	Number of releases, grouped by an application or release attribute
Scans	Number of scans, grouped by the scan status

Note: Data points for all items are measured additively except for scans.

User Guide Chapter 6: Dashboards and Reports



Creating a Dashboard

You can create additional dashboards for organizing different facets of data. You can have up to 10 dashboards.

To create a dashboard:

1. Select the **Dashboard** view.

The dashboard page appears. It displays the last dashboard that was loaded.

Dashboard	0									ACTIONS
WIDGET		MY WIDGET				٤		MY WIDGET		
Total Applications: 8		APPLICATION	RELEASE	ТҮРЕ	REASON			ENTITLEMENT ID	UNITS PURCHASED	UNITS CONSUME
Release Policy Compliance		WebGoat (.NET)	5.4	Dynamic	Other	C ²		5575	500	0
Development 1 2								5689	500	0
QA/Test								<		
Production	7									
Dutstanding Issues										
Critical	588									
High 50	94									
Medium 31										
Low 384										
Low 384										
Low 384										
Low 384			Ŧ	MYW	IDGET					●▽⊭
	# APPLICATIO	DNS # ISSUES	¥	6	⁵⁰⁰ 000-	00000		>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	00000000	• 7 ** • 00000
WIDGET	# APPLICATIO	DNS # ISSUES 306	Ŧ	6	⁵⁰⁰ 000	00000		××××××××××××××××××××××××××××××××××××××	00000000	0000
WIDGET			Ŧ	6 5 4		00000		,,,,,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0000000	0000
WIDGET CATEGORY Cross-Site Request Forgery	3	306	÷	6 5 4 3	⁵⁰⁰ 000 500 000	00000		00000000	0000000	0000
WIDGET CATEGORY Cross-Site Request Forgery Cross-Site Scripting: Reflected	3	306 199	ą	6 5 4 3 2		00000		00000000	0000000	0000
WIDGET CATEGORY Cross-Site Request Forgery Cross-Site Scripting: Reflected SQL Injection	3 4 4	306 199 151	ά.	6 5 4 3 2		00000		>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	00000000	00000
WIDGET CATEGORY Cross-Site Request Forgery Cross-Site Scripting: Reflected SQL Injection Dangerous File Inclusion	3 4 4 1	306 199 151 122	4	6 5 4 3 2		00000		00000000	00000000	00000
WIDGET CATEGORY Cross-Site Request Forgery Cross-Site Scripting: Reflected SQL Injection Dangerous File Inclusion Weak Encryption	3 4 4 1 1	306 199 151 122 95	ά	6 5 4 3 2 1		00000		00000000	00000000	00000
WIDGET CATEGORY Cross-Site Request Forgery Cross-Site Scripting: Reflected SQL Injection Dangerous File Inclusion Weak Encryption Buffer Overflow	3 4 4 1 1 1	306 199 151 122 95 80	Ŧ	6 5 4 3 2 1	000 000 000 000 000 000 000 000 00 0000	00000		××××××××××××××××××××××××××××××××××××××	00000000	00000
WIDGET CATEGORY Cross-Site Request Forgery Cross-Site Scripting: Reflected SQL Injection Dangerous File Inclusion Weak Encryption Buffer Overflow Privacy Violation	3 4 4 1 1 1 1 5	306 199 151 122 95 80 44	Υ	6 5 4 3 2 1		00000		××××××××××××××××××××××××××××××××××××××	00000000	00000

2. Select Actions > New Dashboard.

The Create a Dashboard window opens.

ở Create a Dashboard	×
Dashboard Details	
Dashboard Name	
Dashboard Layout Image: Blank Default	
Copy from existing Dashboard	SAVE

- 3. In the **Dashboard Name** field, type a name for the new dashboard.
- 4. Select the initial layout of the new dashboard:

- Blank: start with a blank dashboard
- Default: use the default dashboard configuration for your user role
- Copy from existing Dashboard: copy the layout of an existing dashboard
- 5. Click **Save**.

The new dashboard appears.

Editing a Dashboard

You can edit a dashboard by adding, editing, rearranging, and deleting rows and tiles. A dashboard can have up to ten tiles with a maximum of three tiles per row.

To edit a dashboard:

1. Select the **Dashboard** view.

The dashboard page appears. It displays the last dashboard that was loaded.

	3									
MY WIDGET	M	Y WIDGET				Ł		MY WIDGET		لا
Total Applications: 8		APPLICATION	RELEASE	ТҮРЕ	REASON			ENTITLEMENT ID	UNITS PURCHASED	UNITS CONSUMED
Release Policy Compliance		WebGoat (.NET)	5.4	Dynamic	Other	C ²		5575	500	0
Development 1 2								5689	500	0
QA/Test								۲		>
Production	7									
	_									
Outstanding Issues										
Critical	588									
High 504										
Medium 31										
MY WIDGET			Ŧ	MY WI	DGET					●४४३
		4 100 1100	Ŧ							
CATEGORY	# APPLICATIONS		¥	60	⁰⁰ 000	0000	000	00000000 00000000	00000000	0000
	# APPLICATIONS	# ISSUES 306 199	¥	60 50 40	⁰⁰ 000 ⁰⁰ 000	0000	000	00000000	00000000 00000000	0000
CATEGORY Cross-Site Request Forgery	3	306	₽	60 50		0000	000	00000000	00000000	0000
CATEGORY Cross-Site Request Forgery Cross-Site Scripting: Reflected	3	306 199	ځ	60 50 40 30 20		0000	000	00000000	00000000	0000
CATEGORY Cross-Site Request Forgery Cross-Site Scripting: Reflected SQL Injection	3 4 4	306 199 151	ځ	60 50 40 30 20 10		0000	000	0000000	00000000	00000 00000
CATEGORY Cross-Site Request Forgery Cross-Site Scripting: Reflected SQL Injection Dengerous File Inclusion	3 4 4 1	306 199 151 122	±	60 50 40 30 20 10		0000	000	0000000	00000000	00000 00000
CATEGORY Cross-Site Request Forgery Cross-Site Scripting: Reflected SQL Injection Dangerous File Inclusion Weak Encryption	3 4 4 1 1	306 199 151 122 95	ځ	60 50 40 30 20 10		0000	000	0000000	00000000	00000 00000
CATEGORY Cross-Site Request Forgery Cross-Site Scripting: Reflected SQL Injection Dangerous File Inclusion Wask Encryption Buffer Overflow Privacy Violation Null Dereference	3 4 4 1 1 1 5 4	306 199 151 122 95 80 44 41	ځ	60 50 30 20 10		0000	000	••••••••••••••••••••••••••••••••••••••	00000000	00000 00000
CATEGORY Cross-Site Request Forgery Cross-Site Scripting: Reflected SQL Injection Dangerous File Inclusion Weak Encryption Buffer Overflow Privacy Violation	3 4 4 1 1 1 1 5	306 199 151 122 95 80 44	±.	60 50 20 10	00 00 00 00 00 00 00 00 00 00 00 00 00	0000	000	••••••••••••••••••••••••••••••••••••••	00000000	00000 00000

- 2. Select the dashboard that you want to edit from the drop down list.
- 3. Select Actions > Edit Dashboard.

The dashboard refreshes in edit mode.

Befault	0			RESET TO DEFAULT	SAVE CANCE	LXDELETE
						×
	$\nabla \times$		$\nabla \times$			×
Tile Name Portfoli	o Summary	Tile Name Paused Scans		Tile Name Active Entitlem	ents	
Tile Type Summa	ry	Tile Type List Grid	~	Tile Type List Grid		~
Type Portfol	io 💙	Type Paused Scans	Y	Type Active Entitlen	ients	~
		ADI	ROW			

4. Perform one or more following tasks to edit the dashboard:

Task	Procedure
Add a tile	a. Perform one of the following actions:
	$^{\circ}$ Click + in a row to add a tile (if available).
	• Click Add Row to add a tile in a new row (if available).
	Note : Each row can contain up to a maximum of three tiles.
	b. In the Tile Name field, type a name for the tile.
	c. Select the tile type from the Tile Type list. For a description of the tile types, see "Dashboard Graph Types" on page 224.
	d. Perform the relevant action based on the tile type you selected.
	 If you selected Gauge, select the data item to be represented from the Type list.
	 If you selected List Grid, select the data item to be represented from the Type list.
	 If you selected Summary, select the data item to be represented from the Type list. The current available value is Portfolio.
	 If you selected Trending Chart, select the data item to be represented from the Data Type list, select the time period of the graph from the Resolution list, and select the attributes by which to group the data from the Group By lists.

	e. If applicable, click ⊽ and select the filter values to be applied. The filters that are available depend on the data item type selected.
Edit a tile	Choose an existing tile to edit and update the fields as needed.
Move a row/tile	Click 🗄 and drag the row/tile to the desired slot.
	Note: You can move a tile within a row, but you cannot move a tile to another row.
Delete a row/tile	Click x next to the row/tile.
Reset dashboard to the default configuration	Click Reset to Default .
Return to the view mode without saving changes	Click Cancel .

5. Click **Save**.

The dashboard refreshes with your changes.

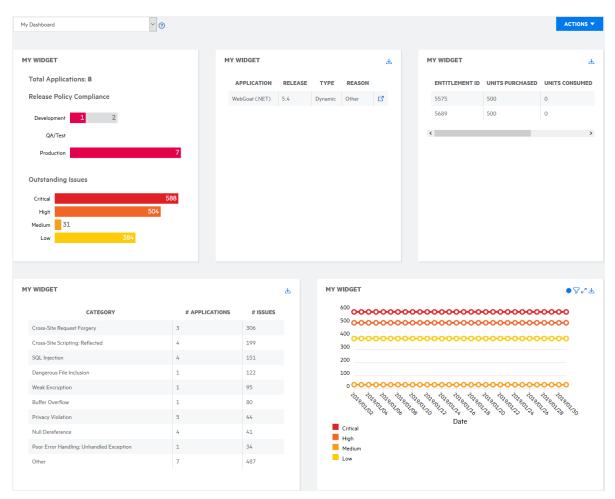
Deleting a Dashboard

To delete a dashboard, you must have at least one other dashboard. If you want to delete your only dashboard, you will need to first create another one.

To delete a dashboard:

1. Select the **Dashboard** view.

The dashboard page appears. It displays the last dashboard that was loaded.



- 2. Select the dashboard that you want to delete from the drop down list. The selected dashboard is loaded.
- 3. Select Actions > Edit Dashboard.

The dashboard refreshes in edit mode.

ult	0			RESET TO DEFAULT	SAVE	CANCEL	X DELE
:	$\nabla \times$		$\nabla \times$				×
Tile Name Portfolio Summary		Til e Name Paused Scans		Tile Name Active Entitlen	ients		
Tile Type Summary	~	Tile Type List Grid	~	Tile Type List Grid			~
Type Portfolio	~	Type Paused Scans	~	Type Active Entitle	ments		~
Portfolio	~	Paused Scans	~	Active Entitle	ments		~
		ADD ROW					

4. Click Delete.

A confirmation message appears.

5. Click **Yes**.

The dashboard is deleted.

Reports

Fortify on Demand offers the ability to generate detailed reports of assessment results. You can generate the following types of reports:

- Pre-defined system reports
- Custom reports
- Data exports of applications, releases, scans, issues, or entitlement consumption
- Vendor reports if you are using the Vendor Management feature

Note: Open source component reports are available through the Fortify on Demand report functionality. You can use the Open Source Component system template to generate a report. The template includes the following modules:

- Open Source Bill-of-Materials: a complete list of the components detected in your application
- Vulnerable Open Source Components: a list of components with known security issues

This section contains the following topics:

Viewing Reports	234
Generating a Report	237
Scheduling Auto-Generated Reports	241

Templates	
Data Exports	

Viewing Reports

There are two ways to view reports in the portal. One way is to go through the **Reports** view, where you can view all reports generated for all applications and releases in your tenant. The other way is to go through the **Applications** view, where you can drill down into each application and view reports pertaining to a specific application or release.

This section contains the following topics:

Viewing All Reports	
Viewing Application Reports	
Viewing Release Reports	236

Viewing All Reports

Your Reports page is the default landing page of the Report view, where you can view reports for all your applications at the tenant level.

To view reports at the tenant level:

1. Select the **Reports** view.

Your Reports page appears. The page displays the application and release that the report is for, the date and time of report creation, the report type, the status of the report generation, and the user who generated the report.

I found Display: 23 REPORT NAME APPLICATION RELEASE CREATED DATE REPORT TEMPLATE LANGUAGE STATUS CREATED BY		Your Reports						Search Text		۹	H NEW R	EPORT
				DELEACE		DEDODT TEMPI ATE	LANCHACE	CTATIC	CREATED BY	Display	25 5	100
WebGoat (NET) Static Summary WebGoat (NET) 54 2017/11/09 04/3504 PM Static Summary English Completed HuangTam 🔥 🖡	SV I	REPORT HAPIE	AFFEICATION	RELEASE	CREATED DATE	REPORT TEMPEATE	LANGUAGE	314103	CREATED BT			
		WebGoat (.NET) Static Summary	WebGoat (NET)	5.4	2017/11/09 04:13:04 PM	Static Summary	English	Completed	HuangTam	d	s 🖻 🕽	×

The following table describes how to navigate Your Reports page.

Task	Action
Create a report	Click +New Report .
Download a report	Click 🕹. The report is downloaded to the local folder specified in your browser settings.
Share a report with a tenant	Click . Sharing a report is available if you have established a relationship with another tenant. See "Vendor Management" on page 311.

Task	Action
	Note: Sharing a report that contains multiple releases is currently not available.
Delete a report	Click ×.
Search the reports list	Type a keyword or phrase in the Search Text field and click Enter . To remove the search results, Click the X .
	For information on using the Search Text box, see "Searching Applications and Releases" on page 78.

Viewing Application Reports

You can view reports for a selected application.

To view reports for an application:

1. Select the **Applications** view.

Your Applications page appears.

2. Click the name of the application for which you want to view reports.

The Application Overview page appears.

≡	WebGoat (.NET)							
() () () () () () () () () () () () () (Policy Compliance ★☆☆☆☆ FAIL view	Issues In Production CRITICAL 135	нісн 151		MEDIUM 11		low 74	
U	Releases				Search Text	٩	+ NEW RELEASE	7
CH 303	1 found						Display: 25	50 100
2~	START SCAN RELEASE	COPY STATE SOURCE RELEASE SDL	C STATUS POLICY COMPLIANCE	# ISSUES	5	STATIC	OPEN SOURCE	DYNAMIC
	START SCAN ▷ 5.4	Pro	roduction	CRITICAL HIGH	MEDIUM LOW	\odot	Θ	\otimes

3. Click **Reports**.

The Reports page, displaying all reports for the application.

\equiv	WebGoat (.NET)											
(∆) ⊕	Reports					Search Text		Q () SCH	EDULE AUTO-REPOR	т +	NEW REPORT	
¢ Ø	1 found									Display:	25 50 10	0
Ð	REPORT NAME	APPLICATION	RELEASE	CREATED DATE	REPOR	T TEMPLATE	LANGUAGE	STATUS	CREATED BY			
Ð	WebGoat (.NET) Static Summary	WebGoat (.NET)	5.4	2017/11/09 04:13:04 PM	Static Summ	пагу	English	Completed	HuangTam	¥	∎ ×	
PDF												
÷												
2~												

4. Select a report from the list.

Viewing Release Reports

You can drill down into an application and view reports for a selected release.

To view reports for a release:

1. Select the **Applications** view.

Your Applications page appears.

2. Click **Your Releases**.

Your Releases page appears.

3. Click the name of the release that you want to view reports for.

The Release Overview page appears.

							-
Release Details						show -	START SCA
Policy Compliance	Issues				Scan Status		
* \$ \$ \$ \$ \$	CRITICAL	HIGH	MEDIUM	LOW	STATIC	OPEN SOURCE	DYNAMIC
FAIL VIEW 1 EDIT	135	151	11	74	COMPLETED	NOT STARTED	
Recommendations Analysis	Smart Fix						
Recommended Issu	es To Address						
286 issues require remed	iation and verification						
284 unassigned							
284 open							
2 in remediation							
286 pending auditor review							
Application monitoring is	required by your security po	olicy for this application	n				
Trending						Group By	
5						Severity	
						Critical	
175							
175						High	

4. Click **Reports**.

The Reports page appears displaying all reports for the release.

\equiv	WebGoat (.NET) > 5.4								
(∆) ⊕	Reports				S	earch Text	٥	IMPORT REPOR	
©	1 found								Display: 25 50 100
	REPORT NAME	APPLICATION	RELEASE	CREATED DATE	REPORT TEMPLATE	LANGUAGE	STATUS	CREATED BY	
	WebGoat (.NET) Static Summary	WebGoat (.NET)	5.4	2017/11/09 04:13:04 PM	Static Summary	English	Completed	HuangTam	∓ B ×
PDF									
÷									

5. Select a report from the list.

Generating a Report

Use a pre-defined report template or a custom report template to generate a report of a release. Reports are available in PDF and HTML formats. In the event a PDF report generation fails, the HTML version is automatically provided in place of the PDF version for your convenience.

To help avoid failures when generating extremely large PDF reports, you cannot generate PDF reports that include the **Analyst Trace**, **Request/Response**, or **Issues Details** template modules and contain more than 5000 issues. Either generate HTML reports or use an alternative report template with the modules removed and/or with additional filters that reduce the issue count.

Note: To generate reports in a certain language, the language must be selected in your account settings. For more information, see "Editing Your Account Settings" on page 26.

To generate a report:

Note: The following instructions describe how to generate reports on Your Reports page. You can also generate reports on the Application Reports and Release Reports pages.

1. Select the **Reports** view.

Your Reports page appears.

2. Click **+New Report**.

The Create Report wizard appears.

3. Select Application: select the application and click Next.

eate Report							
Select Application				Search Text		c	2
Select Releases	11	found			Display:	25 50	1
Report Details			APPLICATIO	N A			
Report Template		iGoat Android (JAVA)					Q X 50 100
Summary		iGoat iOS (Objective-C)					
		Jeopardy (PHP)					
		Open Source					
		OpenSSL (C Source)					
		Rubix (JAVA-No Source)					
		Swagger Petstore					
) WebGoat					
		WebGoat (.NET)					
		Zero					
		\$					

4. **Select Releases**: select the releases and click **Next**. If you select multiple releases, a report will be generated for each release and the reports will be packaged in a zip file.

Create Report				×
✓ Select Application			Search Text	۹ 🗙
Select Releases	2 found		Display:	25 50 100
Report Details	SELECT ALL			
Report Template		RELEASE	s~	
Summary	3.1			
	3.2			
		В	ACK NEXT	

5. **Report Details**: complete the fields and click **Next**. Fields are required unless otherwise noted.

Create Report			×
 Select Application Select Releases Report Details Report Template Summary 	Report Name		
Commonly (File Type PDF		~
	BACK	NEXT	

Field	Description
Report Name	Provide the name of the report.
Notes	Provide notes for the report.
File Type	Select the file type of the report: PDF , HTML .

6. **Report Template**: select a report template type and click **Next**.

- System report templates appear in blue; custom report templates appear in black.
- If your release has only static issue data, only static report templates are available.
- If your release has only dynamic issue data, only dynamic report templates are available.

eate Report		×
	Report Template	
 Select Application 	Custom Static Summary	-
✓ Select Releases	FISMA Compliance Hybrid Comprehensive	
✓ Report Details	Hybrid Issue Detail Hybrid Summary	
Report Template	Mobile Issue Detail Mobile Summary	
Summary	Open Source Issue Breakdown PCI 2.0 DSS Compliance PCI 3.0 DSS Compliance PCI 3.1 DSS Compliance PCI 3.2 DSS Compliance	
	PCI 4.0 DSS Compliance PCI SSF 1.2 DSS Compliance STIG 4.11 Compliance STIG 5.1 Compliance	
	STIG 5.2 Compliance Static Analysis Trace	
	Static Comprehensive Static Issue Detail Static Summary	
	Static Summary	
	BACK	NEXT GENERATE

7. **Summary**: review the summary of the report and click **Generate**.

Create Report		Х
 Select Application Select Releases Report Details Report Template Summary 	Report Name Jeopardy Static Summary Notes File Type PDF Application Jeopardy (PHP) Releases 3.1 Report Template Static Summary	
	BACK	NEXT GENERATE

You are redirected to the Reports page. The report is available once the "Completed" status appears.

Note: You can click \mathbf{X} to delete a report while it is still being generated.

- 8. Click 🞍 in the row of the report once it has been generated.
- 9. A PDF or zip file (depending on the file type) is saved to the folder specified in your browser settings.

Scheduling Auto-Generated Reports

If you plan to run multiple assessments on the same application and you would like to generate the same reports each time, you can save time by using the auto-generated report function.

To schedule an auto-generated report:

1. Select the **Applications** view.

Your Releases grid appears, displaying a list of your releases.

	You	r Releases						Search Text		Q + N	EW APPLICATION EXPORT] T
⊞ 	All	9 Developm	ent 2 QA/Test	0 Pro	duction 7	Retired o						
	9 fou	nd							Display: 25	50 100	expand all collapse all	٢
	SELEC	TALL									V APPLICATION TYPE	
		START SCAN	APPLICATION	RELEASE	SDLC STATUS	APPLICATION CREATED DATE		# IS:	SUES		Mobile	2
		START SCAN ▷	WebGoat (.NET)	5.4	Production	2016/05/13	CRITICAL 135	HIGH	MEDIUM	LOW 74	Web / Thick-Client BUSINESS CRITICALITY DYNAMIC SCAN STATUS	7
		START SCAN D	Jeopardy (PHP)	3.1	Production	2016/05/13	CRITICAL 160	HIGH 5	MEDIUM	LOW 147	MOBILE SCAN STATUS PASS/FAIL	
		START SCAN D	Jeopardy (PHP)	3.2	Development	2016/05/13	CRITICAL 160	HIGH	MEDIUM	LOW 147	> STAR RATING > SCAN TYPE	
		START SCAN ▷	Zero Security (COBOL)	12.6.8	Production	2016/05/13	CRITICAL 11	HIGH 4	MEDIUM	LOW	> APPLICATION CREATED DATE	
		START SCAN ▷	OpenSSL (C Source)	1.0.2a	Production	2016/05/13	CRITICAL 64	HIGH 156	MEDIUM	LOW		
		START SCAN ▷	Rubix (JAVA-No Source)	0.1	Production	2016/05/13	CRITICAL 1	HIGH 7	MEDIUM	LOW		
		START SCAN ▷	iGoat Android (JAVA)	2.4	Production	2016/05/13	CRITICAL 43	HIGH	MEDIUM 18	LOW 15		

- 2. Click the name of the application you want to schedule auto-generated reports for.
- 3. Click **Reports**.

The Reports page appears.

4. Click Schedule Auto-Report.

The Schedule an Auto-Generated Report modal window appears.

Please select a report template that will be scheduled to a	uto-generate a
report once a Static scan completes for this application.	
(Report not Scheduled)	~
Please select a report template that will be scheduled to a report once a Dynamic scan completes for this application	-
(Report not Scheduled)	~
SDLC Status	
SDEC Status	
Development OA/Test Develoption	
Development QA/Test Production	
File Type:	~
File Type: PDF Email Report Upon Completion	~
File Type: PDF Email Report Upon Completion	~
File Type: PDF Email Report Upon Completion	~
File Type: PDF Email Report Upon Completion	~

- 5. Select the report template that will be used to generate a report upon completion of a static scan.
- 6. Select the report template that will be used to generate a report upon completion of a dynamic or mobile scan.
- 7. Select the SDLC status check box(es) that will trigger the report generation.
- 8. Select the report file type from the **File type** list.
- To automatically distribute the reports to specified recipients, select Email Report Upon Completion and in the Notification List field, type the email addresses that will receive the reports.
- 10. Click Save.

Your auto-generated report settings are saved.

Templates

Users with the Create Report permission can view, create, edit, and delete templates.

The Templates page displays a list of existing report templates, with links for viewing, copying / editing, and deleting templates. There are two types of report templates: system and custom.

System report templates exist for Application Monitoring, Static, Dynamic, Hybrid, and Mobile reports as well as ones for PCI, STIG, and FISMA compliance reports. System templates can be copied and suppressed, but not edited or deleted.

Fortify on Demand provides a **Template Wizard** for creating custom report templates. You can configure the report modules and filters to include in the template and use it to generate reports containing the information most useful to your organization. The custom report templates can be edited and deleted.

Use case: If your report is for high-level management review and the people reading it do not want to see the details of your security assessment, you can select the **Static Summary** template. It includes: a title page, an executive summary, an issue breakdown, a list of issues by analysis type, and the OWASP Top 10. It does not include PCI reporting, comments on the issue details, or an analysis trace report (unless you add those).

This section covers the following topics:

Creating a Custom Report Template	243
Editing a Custom Report Template	245
Deleting a Custom Report Template	246
Suppressing a System Report Template	.246

Creating a Custom Report Template

You can create a custom report template by either creating a report template from scratch or starting with one of the system template and modifying it to suit your needs.

To create a custom report template:

- 1. Select the **Reports** view.
- 2. Click the **Templates** icon.
 - The Templates page appears.
- 3. Perform one of the following actions:
 - Click **+New Template** to create a template from scratch.
 - Click the 🗈 icon in the desired system template row to clone the template.

The Add/Edit Report Template wizard appears.

4. Template Details: in the Template Name field, type the name of the new template and click Next.



5. **Filters**: select the desired filters and click **Next**. Fields are required unless otherwise noted.

V ISSUE STATUS

Field	Description
Scan Type	Scan type
Severity	(Optional) Severity of the issues
Issue Status	(Optional) Status of the issues (New , Existing , Reopen)
Developer Status	(Optional) Developer status of the issues
Auditor Status	(Optional) Auditor status of the issues
lssue Age	(Optional) Days since the issues were first introduced
Category	(Optional) Vulnerability category of the issues
Is Suppressed	(Optional) Suppression state of issues (default value is False)

- 6. **Modules**: select the report modules to include in the template and click **Next**.
 - Drag the modules that you want to include from the **Available Modules** column to the **Report Layout** column. The modules that are available depend on the selected scan type.
 - Drag and drop items in the **Reports Layout** column to change the order of the modules in the generated report.

 Template Details 	Available Mo	odules	Report Lay	/out	
/ Filters	∷ An	alysis Traces	^		\sim
Modules		Appendix			
Summary	E Continuous Ap	plication Monitoring D			
	E Continuous Ap	plication Monitoring S			
	E DISA Executiv	ve Summary STIG 4.11			
	BISA Execut	ive Summary STIG 5.1			
	B DISA Issue 8	Breakdown STIG 4.11			
		Breakdown STIG 5.1			
	B DISA Tit	le Page STIG 4.11			
	🗄 🛛 DISA Ti	tle Page STIG 5.1			
	🗄 Dynamic F	Request & Response			
	: Exec	utive Summary			
		xecutive Summary			
			v		\checkmark

7. **Summary**: review the summary of the template and click **Save**.

Add/Edit Report Tem	blate			×
 ✓ Template Details ✓ Filters ✓ Modules Summary 	Template Details Template Name Custon Static Summary Modules Title Page Executive Summary Static File Listing Issue Breakdown OWASP 2013 Top 10 Issue Breakdown Static Structure Appendix	Filters Scan Type Static Critical High Medum Low Is Suppressed False		
		BACK	NEXT	SAVE

The custom report template appears in the template list. If necessary, run a search of the name to find the template.

Editing a Custom Report Template

You can edit an existing custom report template through the Add/Edit Report Template wizard.

To edit a custom report template:

- 1. Select the **Reports** view.
- 2. Click **Templates**.

The Templates page appears.

 Click the *i* icon in the row of the template that you want to edit. The Add/Edit Report Template wizard appears. 4. Edit the fields in each step of the wizard as needed. For more information, see "Creating a Custom Report Template" on page 243

Note: Removal of deprecated modules is permanent and cannot be undone after the template is saved.

5. Click Save.

The template changes are saved.

Deleting a Custom Report Template

You can delete any of your custom report templates in your tenant.

To delete a custom report template:

- 1. Select the **Reports** view.
- 2. Click **Templates**.

The **Templates** page appears.

- 3. Locate the custom template that you want to delete in the template list.
- 4. Click the \times icon in the template row.

A confirmation message appears.

5. Click **Yes** to delete the template.

Suppressing a System Report Template

Security Leads can prevent users in the portal from viewing or using a system report template in report generation by suppressing the system template.

- 1. Select the **Reports** view.
- 2. Click **Templates**.

The **Templates** page appears.

3. Click the ø icon next to the system template that you want to suppress.

A confirmation message appears.

4. Click **Yes** to confirm the system report template suppression.

The system report template is shown as suppressed. You can click the r icon to restore the system report template to users in the portal.

Data Exports

A data export is a complete list of relevant data for a specific category (applications, releases, scans, issues, or entitlement consumption) across the tenant. Users with the Export Data permission can generate data exports. The data export is provided as a CSV file.

This section covers the following topics:

Viewing Data Exports

To view data exports:

1. Click the **Reports** view.

Your Reports page appears

2. Click Data Export.

The Data Export page appears.

	ta Export			+ NEW 1	+ NEW DATA EXPORT	
44 fo	44 found		Display:	25 50 100		
	NAME	ТҮРЕ	CREATED BY	NEXT RUN DATE		
>	All Application Releases - 2015-11-05 14h50m50s		TenantUser		× Ø Þ	
>	All Application Releases - 2015-11-05 14h57m00s	Application Releases Export	TenantUser		× Ø Þ	
>	All Application Releases - 2016-05-16 21h38m33s	Application Releases Export	kristine_tam		× 0 Þ	
>	All Application Releases - 2016-07-27 09h43m03s	Application Releases Export	katrina_seclead		× 0 Þ	
>	All Application Releases - 2016-07-27 09h46m15s	Application Releases Export	katrina_seclead	2017/12/03	× Ø Þ	
>	All Application Releases - 2016-07-30 05h40m45s	Application Releases Export	carla_seclead		× ∅ Þ	
\geq	All Application Releases - 2016-10-18 22h11m33s	Application Releases Export	edz_tam		× 0 Þ	
>	All Application Releases - 2017-02-01 08h24m55s	Application Releases Export	AuUser		× 0 Þ	
>	All Application Releases - 2017-11-04 21h50m09s	Application Releases Export	HuangTam		× 0 Þ	
>	All Application Releases - UAT test	Application Releases Export	danika_tam		× 0 Þ	
>	All Applications - [Current Releases] - 2015-03-10 10h55m52s	Application Export	DerekTam		ר	

The following table describes how to navigate the Data Export page.

Task	Action			
Create a data export template	Click +Create Data Export . For more information, see "Creating a Data Export Template" on the next page.			
Generate a data export using an existing template	Click ▷ in the row of a template. For more information, see "Generating a Data Export" on page 252.			
Edit a data export template	Click 🖉 in the row of a template.			
Delete a data export template	Click $ imes$ in the row of a template. You cannot delete a template if it has an existing data export.			
View generated data exports for a template Click > in the row of a template to view files that hav generated in the last three months for the template.				
	Al Application Releases - 2017-11-08 2016/9/m20s.cv Al Application Releases - 2017-11-08 2016/9/m20s.cv Crasted Date:2017/11/08 X 3			

Task	Action
Delete a data export	Click \times in the row of a data export. If a data export is still running, it will be canceled.
Download a data export file	Click 🛃 in the row of a data export.

Creating a Data Export Template

A data export template is used as a basis for generating data exports. You can apply filters as well as schedule recurring data exports.

To create a data export template:

1. Click the **Reports** view.

Your Reports page appears

2. Click Data Export.

The Data Export page appears.

Cpf	Dat	a Export			+ NEW 0	ATA EXPORT
₽F }	44 fo	und			Display:	25 50 100
sv		NAME	TYPE	CREATED BY	NEXT RUN DATE	
<u>sv</u>]	>	All Application Releases - 2015-11-05 14h50m50s		TenantUser		× Ø Þ
	>	All Application Releases - 2015-11-05 14h57m00s	Application Releases Export	TenantUser		× Ø Þ
	>	All Application Releases - 2016-05-16 21h38m33s	Application Releases Export	kristine_tam		$\times \mathrel{\mathbin{о}} \triangleright$
	>	All Application Releases - 2016-07-27 09/t43m03s	Application Releases Export	katrina_seclead		× Ø Þ
	>	All Application Releases - 2016-07-27 09h46m15s	Application Releases Export	katrina_seclead	2017/12/03	$\times \mathscr{O} \triangleright$
	>	All Application Releases - 2016-07-30 05h40m45s	Application Releases Export	carla_seclead		$\times \mathrel{\mathbin{о}} \triangleright$
	>	All Application Releases - 2016-10-18 22h11m33s	Application Releases Export	edz_tam		$\times \mathrel{\mathbin{/}\!$
	>	All Application Releases - 2017-02-01 08h24m55s	Application Releases Export	AuUser		× Ø Þ
	>	All Application Releases - 2017-11-04 21h50m09s	Application Releases Export	HuangTam		× Ø Þ
	>	All Application Releases - UAT test	Application Releases Export	danika_tam		× 0 Þ
	>	All Applications - [Current Releases] - 2015-03-10 10h55m52s	Application Export	DerekTam		× 0

3. Click +Create Data Export.

The Data Export wizard appears.

4. Start Page: Complete the fields and click Next.

Data Export Wizard		×
Start Page	Name Applications Filtered - 2020-08-14 00h37m55s	
Filter	T	
Summary	Template Applications	~
	Schedule	
	Queue Now	
	Recurring	
	Enabled	
	BACK NEXT	

Field	Description
Name	Type the name of the data export template.
Template	 Select a data export template type: Applications - list of applications Application Releases - list of releases Scans - list of scans Issues -list of issues Entitlement Consumption - list of scans where entitlements were consumed, including deleted, canceled, and in progress scans.
	Note: Filters are not available for the Entitlement Consumption template type.
Schedule	 Select one of the following options for scheduling the data export: Queue Now - queues the data export immediately Recurring - generates the data export according to a schedule that you will specify in the wizard

When this option is selected, the **Enabled** check box is available. Select the check box to have the data export automatically generated according to the schedule (default). Otherwise, you must manually generate the data export.

5. **Filter**: select the desired filters and click **Next**. The available filters are based on the template type selected.

Data Export Wizard		×
✓ Start Page Filter Columns Schedule Summary	expand all collapse all SCAN START DATE From: 2020/08/01 Collapse all Collapse all To: Collapse all To: Collapse all To: Collapse all Collapse	
	BACK NEXT	

Note: The **Scan Start Date** filter is required for the scans data export; the **Introduced Date** filter is required for the issues data export.

6. **Columns** (available for the scans and issues data exports): select the columns to include in the data export and click **Next**.

Data Export Wizard		×
✓ Start Page ✓ Filter Columns Schedule Summary	select all unselect all invert selection ScanPauseTime IssueCountHighStatic IssueCountBPStatic Scan Status Scan Status Started By User IssueCountMediumDyn Release Description IssueCountCriticalStatic IssueCountCriticalStatic IssueCountCriticalNetwork IssueCountLowDyn SuppressedIssueCount IssueCountHighNetwork IssueCountBPNetwork IssueCountBPNetwork IssueCountLowNetwork Release Created Date	
	BACK NEXT	SAVE

7. **Schedule** (available for recurring data exports): select the repeat frequency and the day or date to generate the data export. Click **Next**.

Note: Data exports run at 24:00 server time.

Data Export Wizard		X
✓ Start Page ✓ Filter	Recur Weekly V Day of the week	
✓ Columns Schedule	Sunday Y	
Summary		
	BACK NEXT SAV	

8. Click **Next**.

9. **Summary**: review the summary of the data export and click **Save**.

The data export template appears in the data export list.

Generating a Data Export

You generate a data export using an existing data export template.

Note: A data export only contains results of completed assessments at the time the data export is generated, with the exception of the Entitlement Consumption data export.

To generate a data export:

1. Click the **Reports** view.

Your Reports page appears

2. Click Data Export.

The Data Export page appears.

≡∣	Data	a Export			+ NEW 0	DATA EXPORT
¢	44 fo	und			Display:	25 50 100
CSV		NAME	TYPE	CREATED BY	NEXT RUN DATE	
<u>(SV</u>	>	All Application Releases - 2015-11-05 14h50m50s		TenantUser		$\times \mathscr{O} \triangleright$
	\geq	All Application Releases - 2015-11-05 14h57m00s	Application Releases Export	TenantUser		× Ø Þ
	>	All Application Releases - 2016-05-16 21h38m33s	Application Releases Export	kristine_tam		$\times \mathscr{O} \triangleright$
	>	All Application Releases - 2016-07-27 09h43m03s	Application Releases Export	katrina_seclead		× Ø Þ
	>	All Application Releases - 2016-07-27 09h46m15s	Application Releases Export	katrina_seclead	2017/12/03	$\times \mathscr{O} \triangleright$
	>	All Application Releases - 2016-07-30 05h40m45s	Application Releases Export	carla_seclead		× ø Þ
	>	All Application Releases - 2016-10-18 22h11m33s	Application Releases Export	edz_tam		$\times \mathscr{O} \triangleright$
	>	All Application Releases - 2017-02-01 08h24m55s	Application Releases Export	AuUser		× Ø Þ
	>	All Application Releases - 2017-11-04 21h50m09s	Application Releases Export	HuangTam		$\times \mathscr{O} \triangleright$
	>	All Application Releases - UAT test	Application Releases Export	danika_tam		× Ø Þ
	>	All Applications - [Current Releases] - 2015-03-10 10h55m52s	Application Export	DerekTam		× 0

- Click ▷ in the row of a data export template. The data export is gueued for generation.
- Click > next to the template to view the generated data exports.
 A "Processing" status appears until the data export is available.

Note: You can click \times to cancel a long-running data export.

Click do in the row of the data export once it has been generated.
 A CSV file is saved to the folder specified in your browser settings.

Chapter 7: Administration

Administration of your tenant is performed from the portal. Access and privileges are determined by the user role.

This section contains the following topics:

Portal Management	
User Management	
Policy Management	
Single Sign-On (SSO)	
Vendor Management	

Portal Management

Security Leads can administer the portal, including configuring portal settings, configuring security, and reviewing the administration event log.

This section covers the following topics:

Configuring User Security	.253
Managing API Keys	256
Managing Attributes	260
Managing Fortify on Demand Connect Networks	265
Viewing Entitlements	267
Viewing the Administration Event Log	268

Configuring User Security

Security Leads can configure the following user security settings:

- Password reset frequency
- Maximum personal access token lifetime
- Two-factor authentication
- IP restrictions

To configure user security settings:

1. Select the **Administration** view.

The User Settings page appears.

User Guide Chapter 7: Administration

2. Click **Settings**.

The Settings page appears.

3. Select the **Security** tab.

\equiv	Settin	qs					
83		-					
	Attributes	Security	API	Application Defender	Sonatype		
88 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	Password	Days	ency (1	to 9999 days)			
	Max Pers	onal Access T	oken Li	fetime (1 to 9999 d	ays)		
	180 🜩	Days					
\rightarrow		or Authentica					
U	Enable Two	Factor Authentica	ition				
1	Email						
沙	SMS						
M C P M C P	Frequency	Every login			~		
	IP Restric	tion					
	Enable Logi	n Restriction:				Allowed IP Addr	esses:
	No					NAME	IP ADDRESS
	Allow techni Deny	ical account mana	gers (TAM	ls) access from any IP ado	dress:	+ ADD]
		ress: 15.122.106. orms are 127.0.0.		0,*, and 127.0.0.[0-255].			
	SAVE						

4. Edit the fields as needed.

Section	Procedure
Password	To specify the password reset frequency for new passwords:
Expiration	In the Pasword Reset Frequency field, specify the password reset
Frequency	frequency. The new value overrides the default value of 180 days.
Maximum	To specify the maximum personal access token lifetime for new PATs:
Personal Access	In the MAX Personal Access Token Lifetime field, specify the maximum
Token Lifetime	personal access token lifetime. The new value overrides the default value

	of 180 days.					
Two-Factor Authentication	Protect user accounts by configuring two-factor authentication. Once it is configured, all users will be required to log in using two-factor authentication.					
	To configure two-fac	ctor authentication:				
		wo Factor Authentication field, move the move the O Yes to enable two-factor authentication.				
	b. Select whether u methods.	isers can receive the login code by email, SMS, or both				
		n a user is prompted for a two factor authentication requency list: Every login, 4 hours, 8 hours, 12 s.				
IP Restrictions	Limit access to the tenant by restricting access to users logging in from particular IP addresses.					
	To restrict access to particular IP addresses:					
	 a. In the Enable Login Restriction field, move the move the slider from No to Yes to enable IP restriction. 					
	b. In the Allow technical account managers (TAMs) access from any IP address field, move the slider from No to Yes to allow a TAM to access your tenant from any IP address.					
	c. Perform the follo access to the ter	owing tasks to manage the IP addresses that have nant:				
	Task	Procedure				
	Add an IP address to the allowed list	Click +Add and type a name for the IP address (special characters are not allowed) and the IP address. Valid IP address forms are 127.0.0.1, 127.0.0.*, and 127.0.0.[0-255].				
	Remove an existing IP address from the allowed list	Click x next to an IP address in the Allow IP Addresses list.				

5. Click **Save**.

Your user security settings are saved.

Managing API Keys

API keys are used to authenticate to the Fortify on Demand API. Security Leads can manage API keys.

Note: This section covers the management of API keys. For information on using the Fortify on Demand API, see "Fortify on Demand API" on page 316

This section covers the following topics:

Creating an API Key	
API Key Roles	
Editing or Deleting an API Key	

Creating an API Key

Security Leads can create API keys.

To create an API key:

- Select the Administration view. The User Management page appears.
- 2. Click **Settings**.

The **Attributes** tab of the Settings page appears.

3. Select the **API** tab.

\equiv	Settings									
路	Attributes Security API									
<u>نې</u>	NAME	API KEY	GRANT TYPE	ROLE	LAST LOGIN DATE	LAST LOGIN IP ADDRESS	AUTHORIZED			
	ManageApplications	ee2828c6-ef1c-4ca6-8ea2-f643bdOeab78	Client Credentials	Manage Applications	2022/04/14	15.122.108.150	Yes	NEW SECRET EDIT DELETE	ASSIGN APPLICATIO	
5	ReadOnly	c6599566-be40-4612-9804-6cece1a97b83	Client Credentials	Read Only			Yes	NEW SECRET EDIT DELETE	ASSIGN APPLICATIC	
	ReadOnly for 22.1	95f2661d-3fff-4edf-bfa9-dad49290b823	Client Credentials	Read Only	2022/04/07	15.122.101.250	Yes	NEW SECRET EDIT DELETE	ASSIGN APPLICATIO	
Ð	SecurityLead	ffc06c71-2f45-4f74-a9bf-d76cb8935f7f	Client Credentials	Security Lead			Yes	NEW SECRET EDIT DELETE	ASSIGN APPLICATIC	
U	StartScans	ec527d4a-4737-4e9f-8d26-9b0aa0ae9cc2	Client Credentials	Start Scans			Yes	NEW SECRET EDIT DELETE	ASSIGN APPLICATIO	

4. Click +Add Key.

The Add/Edit Key for Application window opens.

Add/Edit Key for Application					
Application Name					
Role ^⑦ (Choose One)		•			
Authorize app to use API					
_					
		CANCEL			

5. Complete the fields. Fields are required unless otherwise noted.

Field	Description
Application Name	Name of your application.
Role	Select the role that has the appropriate API Key permissions. See "API Key Roles" below.
Authorize app to use AP	Select Yes to enable the key. Select No to disable key if it is not in use.

6. Click **Save**.

The Secret Key window opens.

- 7. Copy your Base64 encoded secret code. The secret code is only shown once.
- 8. Click Close.

The new API key appears in the API key list.

Note: By default, an API key has access to all applications. See "Editing or Deleting an API Key" on the next page for information on assigning applications to an API key.

API Key Roles

A dedicated API key is associated with a role having a predefined, unmodifiable set of permissions. API keys have access to all applications in a tenant; applications can be assigned to API keys to update application access.

The following table lists the permission set of each API key role.

Role	Permissions	Usage Example
Security Lead	All permissions	Full access to all AppSec program functionality and associated

Role	Permissions	Usage Example
		infrastructure
Manage Applications	View Third Party Apps, Manage Applications, Audit Issues, Create Reports, Start Static/Dynamic/Mobile Scans	Integration with full-featured custom or internal systems without the ability to manage users
Start Scans	View Third Party Apps, View Applications, View Issues, View Reports, Start Static/Dynamic/Mobile Scans	Continuous integration and build servers
Read Only	View Third Party Apps, View Applications, View Issues, View Reports	Data import into vulnerability management or Governance, Risk Management, and Compliance (GRC) systems

Editing or Deleting an API Key

Security Leads can perform the following tasks for API keys:

- Generate a new secret
- Edit API key settings
- Assign and unassign applications

Note: API keys with the Security Lead role have access to all applications; this cannot be changed.

• Delete API keys

To make changes to an API key:

1. Select the **Administration** view.

The User Management page appears.

2. Click **Settings**.

The **Attributes** tab of the Settings page appears.

3. Select the **API** tab.

	Settings									
88 ©	Attributes Security API									
<u>ن</u>	NAME	ΑΡΙΚΕΥ	GRANT TYPE	ROLE	LAST LOGIN DATE	LAST LOGIN IP ADDRESS	AUTHORIZED			
	ManageApplications	ee2828c6-ef1c-4ca6-8ea2-f643bd0eab78	Client Credentials	Manage Applications	2022/04/14	15.122.108.150	Yes	NEW SECRET	EDIT DELETE	ASSIGN APPLICATIO
5	ReadOnly	c6599566-be40-4612-9804-6cece1a97b83	Client Credentials	Read Only			Yes	NEW SECRET	EDIT DELETE	ASSIGN APPLICATIO
	ReadOnly for 22.1	95f2661d-3fff-4edf-bfa9-dad49290b823	Client Credentials	Read Only	2022/04/07	15.122.101.250	Yes	NEW SECRET	EDIT DELETE	ASSIGN APPLICATIO
	SecurityLead	ffc06c71-2f45-4f74-a9bf-d76cb8935f7f	Client Credentials	Security Lead			Yes	NEW SECRET	EDIT DELETE	ASSIGN APPLICATIO
5	StartScans	ec527d4a-4737-4e9f-8d26-9b0aa0ae9cc2	Client Credentials	Start Scans			Yes	NEW SECRET	EDIT DELETE	ASSIGN APPLICATIO

4. You can perform the following tasks:

Task	Procedure
Generate new secret	 a. Click New Secret. A confirmation message appears b. Click Yes. This will void the current secret.
Edit API key settings	a. Click Edit.The Add/Edit Key for Application window opens.b. Edit the fields as needed.
Delete API key	a. Click Delete.A confirmation message appears.b. Click Yes.
Assign applications to API key	 a. Click Assign Applications. b. Select the Available tab. Image: Select the Available tab. c. Perform the following actions to select applications: Select the check box next to individual applications. Select the ASSIGN check box to select displayed applications. Select the Assign All Tenant Applications check box to select all applications. You can use the search field to filter the application list. d. Click Save.

Task	Procedure	
Unassign applications from API key	a. Click Assign Applications.b. Select the Selected tab.	
	Assign Applications	×
	Unassign All Tenant Applications	arch Q
	ASSIGN APPLICATION	^
	Goat Android (JAVA)	
	IGoat IOS (Objective-C) Jeopardy (PHP)	
	OpenSSL (C Source)	
	Rubix (JAVA-No Source)	
	WebGoat	
	WebGoat (NET)	
	Zero	
	Zero Security (COBOL)	
		SAVE CANCEL
	c. Perform the following actions to remove ap	plications:
	$^\circ~$ Clear the check box next to individual ap	oplications.
	 Clear the ASSIGN check box to remove applications. 	displayed
	 Select the Unassign All Tenant Application to remove all applications. 	ations check box
	You can use the search field to filter the app	olication list.
	d. Click Save .	

Managing Attributes

Attributes provide additional information about applications; they are used as filters to help track applications, releases, and issues. Attributes are for informational purposes and do not affect the assessment process in any way.

Security Leads can add, edit, and delete attributes. System-level attributes are pre-defined and can not be deleted; certain system attributes are editable.

The following attribute types are available:

- Application attributes. Applications attributes are both system and custom attributes.
- Microservice attributes. Microservice attributes are custom attributes.
- Release attributes. Release attributes are system attributes.
- Issue attributes. Issue attributes are system attributes. The following issue attributes are editable: Auditor Status (Open), Auditor Status (Closed), Developer Status (Open), and Developer Status (Closed).

This section covers the following topics:

Adding an Attribute	
Editing an Attribute	
Deleting an Attribute	

Adding an Attribute

Security Leads can add microservice and application attributes.

To add an attribute:

1. Select the **Administration** view.

The User Settings page appears.

2. Click **Settings**.

The **Attributes** tab of the Settings page appears.

=	Settings			
88 ©	Attributes Security API			+ ADD ATTRIBUTE
<u>ن</u>	NAME	ATTRIBUTE TYPE	DATA TYPE	
	Auditor Status (Non suppressed)	Issue	Picklist (3)	EDIT
5	Auditor Status (Suppressed)	Issue	Picklist (2)	EDIT
	Developer Status (Closed)	Issue	Picklist (3)	EDIT
<u>-</u> - 권	Developer Status (Open)	Issue	Picklist (2)	EDIT
U	ImpactTest	Application	Picklist (12)	EDIT DELETE
L)	Region	Application	Picklist (4)	EDIT DELETE
Ł				

3. Click +Add Attribute.

The Attribute Definition window appears.

Attribute Definition		×
Name:		
Data Type: (Choose One)		•
Required		
Editable only by Security Leads		
	SAVE	CANCEL

4. Complete the following fields. Fields are required unless otherwise noted.

Field	Description
Name	Specify the name of the new attribute.
Attribute Type	Select the attribute type.
Data Type	Select the data type:
	• Picklist : this attribute type allows selection of a value from a list. You need to define the possible values for the attribute, which appear as a drop-down list for that attribute.
	• Text : this attribute type allows free form text. This is the best type to use if you want to assign a ticket number or other identifier that is specific to each new release.
	• Boolean : this attribute type allows selection of binary values (true/false).
	• Date : this attribute type allows selection of a date from a calendar.
	• User : this attribute type allows selection of a user from a list of all active users for the tenant.
Required	(Optional) Select the check box to designate the attribute as required.
Editable only by Security	(Optional) Select the check box to restrict its usage to Security Leads. This option supersedes the Manage Application permission.
Leads	Note: Selecting this precludes making an attribute required, as it would break the Create Application permission for non-Security Leads.

5. Click **Save**.

The new attribute appears in the attribute list.

Editing an Attribute

Security Leads can edit picklist values and certain settings for existing attributes. You can not change the attribute name or attribute type.

Note: You can edit the values of issue attributes. For the **Developer Status (Open)** attribute, the default values of **Open** and **In Remediation** are non-editable.

To edit an attribute:

1. Select the **Administration** view.

The User Settings page appears.

2. Click **Settings**.

The **Attributes** tab of the Settings page appears.

\equiv	Settings			
88 0	Attributes Security API			+ ADD ATTRIBUTE
<u>ن</u>	NAME	ATTRIBUTE TYPE	DATA TYPE	
	Auditor Status (Non suppressed)	Issue	Picklist (3)	EDIT
5	Auditor Status (Suppressed)	Issue	Picklist (2)	EDIT
	Developer Status (Closed)	Issue	Picklist (3)	EDIT
<u>-</u> 군	Developer Status (Open)	Issue	Picklist (2)	EDIT
U	ImpactTest	Application	Picklist (12)	EDIT DELETE
() J	Region	Application	Picklist (4)	EDIT DELETE
(Particular)				

3. Click **Edit** in the row of the attribute that you want to edit.

The **Attribute Definition** page displays.

Attribute Definition		×
Name:		
Region		
Data Type:		
Picklist		~
Required		
Editable only by Security Leads		
Values (one per line)	-	$+ \wedge \vee 1 \times$
Americas		~
Emea		
Apj Aus		
		-
		←
	SAVE	CANCEL

4. Edit the fields as needed. The fields vary depending on the data type.

Data Type	Available Actions
Picklist	• Click + to add a new value.
	• Use the \sim \sim to reorder the listed values.
	 Click to sort values alphabetically.
	• Click \times to remove a value from the list.
Picklist, Text,	Select or deselect the following check boxes:
Boolean, Date, User	• Required : designate the attribute as required.
User	• Editable only by Security Leads: Restrict attribute usage to Security Leads. This option supersedes the Manage Application permission.
	Note: Selecting this precludes making an attribute required, as it would break the Create Application permission for non-Security Leads.

5. Click **Save**.

Your attribute changes are saved

Deleting an Attribute

You can delete custom attributes. System-level attributes cannot be deleted.

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To delete an attribute:

1. Select the **Administration** view.

The User Settings page appears.

2. Click **Settings**.

The **Attributes** tab of the Settings page appears.

\equiv	Settings			
88 5	Attributes Security API			+ ADD ATTRIBUTE
3	NAME	ATTRIBUTE TYPE	DATA TYPE	
	Auditor Status (Non suppressed)	Issue	Picklist (3)	EDIT
5	Auditor Status (Suppressed)	Issue	Picklist (2)	EDIT
	Developer Status (Closed)	Issue	Picklist (3)	EDIT
<u>-</u> 군	Developer Status (Open)	Issue	Picklist (2)	EDIT
5	ImpactTest	Application	Picklist (12)	EDIT DELETE
ţ,	Region	Application	Picklist (4)	EDIT DELETE
Ł				

3. Click **Delete** in the row of the attribute that you want to edit.

A confirmation message appears.

4. Click Yes.

The attribute and all associated values are deleted.

Managing Fortify on Demand Connect Networks

Fortify on Demand Connect is used to establish site-to-site VPN for dynamic assessments. Security Leads can manage Fortify on Demand Connect networks, which are used to register VPN clients with the VPN server.

Note: Fortify on Demand Connect is available for preview in a sandbox environment. Contact support if you are interested in trying out Fortify on Demand Connect.

Adding a Fortify on Demand Connect Network

Security Leads can add Fortify on Demand Connect networks.

To add a Fortify on Demand Connect network:

1. Select the **Administration** view.

The User Settings page appears.

2. Click Settings.

The **Attributes** tab of the Settings page appears.

3. Select the Fortify on Demand Connect tab.



4. Click +Add Network.

The Add Network window appears.

	×
SAVE	CANCEL
	SAVE

5. Complete the following fields. Fields are required unless otherwise noted.

Field	Description
Network Name	Specify the network name.
User Name	Specify a Fortify on Demand Connect network username.
Password	Specify a Fortify on Demand Connect network password. Allowed characters are upper and lower case letters and numbers.
Confirm Password	Specify the password again.

6. Click Save.

The new network appears in the network list. The **View Docker Commands** link is available that contains the code for the docker command to run the VPN client and initialize the connection between the VPN client and the VPN server.

Deleting a Fortify on Demand Connect Network

Security Leads can delete Fortify on Demand Connect networks.

Note: Fortify on Demand Connect networks cannot be edited. If you need to update an existing network, you need to delete the network and add a new one.

To delete aFortify on Demand Connect network:

1. Select the **Administration** view.

The User Settings page appears.

2. Click **Settings**.

The **Attributes** tab of the Settings page appears.

3. Select the Fortify on Demand Connect tab.

=	Settings		
88 12	Ambutes Security API Perify an Demand Context		+ ADD NETWORK
0	NETWORK NAME	USER HAHE	
Ē	had, out	administratur	VIEW DOCKER COMMANDS DELETE
5	demo, retrack	adionatiatar	VIEW DOCKER COMMANDS DELETE
8	simil_presed	administrative	VEW DOCKER COMMANDS DELETE

4. Click **Delete** in the row of the network that you want to delete.

A confirmation message appears.

5. Click **Yes**.

The network is deleted.

Viewing Entitlements

Security Leads can view a list of expired and active entitlements for the tenant as well as add descriptions to entitlements.

To view entitlements for the tenant:

1. Select the **Administration** view.

The User Management page appears.

2. Click Entitlements.

The Entitlement page appears. The **Fortify Entitlements** tab displays Fortify on Demand entitlements; the **Sonatype Entitlements** tab displays Sonatype entitlements; the **Debricked Entitlements** tab displays Debricked entitlements.

\equiv	Entitlements						
88 5	Fortify Entitlements Sonatype	e Entitlements Debricked Entitlements					
₹ççş	3 found					Dis	play: 25 50 100
	ENTITLEMENT ID	QUANTITY PURCHASED	QUANTITY CONSUMED	START DATE	END DATE	DESCRIPTION	ACTION
5	6418	0	2	2022/05/17	2022/05/17		EDIT
	5575	500	13	2017/11/10	2024/12/31		EDIT
-Ð	5689	500	1	2018/05/03	2025/12/31	Bucket A	¢ EDIT
5							

3. You can perform the following task:

Task	Procedure
Add or edit the	Click Edit in the row of an entitlement and provide a description.
entitlement description	The description is limited to 50 characters.

Viewing the Administration Event Log

Security Leads can view the administration event log. The administration event log logs all application-related events as well as the following administration-related events:

- user login success or failure and user logout
- user creation, updates, and deletion
- group creation, updates, and deletion
- role creation, updates, and deletion
- dashboard and event log exports
- API Key and personal access token creation, updates, deletion, and new secret generation
- API authentication success or failure
- Changes to administration settings and SSO settings

To view the administration event log:

1. Select the **Administration** view.

The User Management page appears.

2. Click Event Log.

The Event Log page appears.

≡ 83	Event Log ®					Search Text	Q EXPORT Y
∽ ☑	EVENT DATE FROM: 202	2/11/28 EVENT DATE	TO: 2022/11/	29			expand all collapse all
503	2 found				Display:	25 50 100	From:
	EVENT DATE	TYPE	USER	APPLICATION	NOTES		To:
	2022/11/28 10:50:52 PM	Data Export Downloaded	HuangTam		ApplicationName = "(null)", ApplicationType = "(null)", ApplicationBusinessCriticality ReleaseName = "(null)", SUCStatus = "(null)", ReportName = "issues Filtered - 2022 - DiAdmSia.csz, ReportType = Export", ApplicationBideredfur = (null), ReleaseRe (null), ReportRedirectUli = "https://bdqa9-tenant.forthyfodqa9).ooa/nedirect/Report WebU	.1-29 directUri = "	
<u>-</u> 군	2022/11/28 10:47:36 PM	Data Export Created	HuangTam		ExportTemplateId = "2027", ExportTemplateName = "Issues Filtered - 2022-11-29 0: ExportTemplateType = "1"	lh46m54s",	
${f v}$							
-							
ţĵ							
Ś							

3. You can perform the following tasks:

Task	Action
Export the event log of the last 13 months	Click Export . A .csv file is saved locally to the folder specified in your browser settings.
Search the event log	Type a keyword or phrase in the search text field and click Enter .

Task	Action
Hide or display the filter list	Click T .
Expand or collapse filters	Click expand all I collapse all () or the arrow next to the filter name.
Remove applied filters	Click X or click Clear Filters at the top of the page. The filter is set to the last 24 hours by default.

Related Topics:

For information about viewing events related to a specific application, see "Viewing the Application Event Log" on page 54.

User Management

Security Leads and users with the Manage Users permissions can manage users in Fortify on Demand. Security Leads can perform all user administration tasks. Users with the Manage Users permissions can manage user accounts and groups, but cannot manage roles.

This section covers the following topics:

Roles and Permissions	
Users	
Groups	

Roles and Permissions

User actions in Fortify on Demand are controlled by roles. Roles are collections of permissions that specify the actions that can be performed. Each user is assigned to a specific role. Security Leads can manage roles, including assigning users to roles and creating, editing, and deleting roles.

Fortify on Demand is deployed with six default roles. Organizations can also define custom roles to better serve their needs. Custom roles can be used to align user roles with existing roles in an organization or expand or limit user responsibilities. Small organizations might want roles with increased permissions; large or highly structure organizations might want roles with more restricted permissions.

This section covers the following topics:

Permissions	27(0	
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Default Roles	274
Viewing Roles	276
Creating a Role	277
Editing a Role	278
Deleting a Role	279

Permissions

Permissions specify the actions a user can perform. Fortify on Demand permissions are divided into two types: tenant level permissions and application level permissions.

- **Tenant Level Permissions** are permissions that are applied at the tenant level, such as managing users, exporting data, and downloading tools. For a detailed list of tenant level permissions, see "Tenant Level Permissions" below.
- **Application Level Permissions** are permissions that are applied to applications, such as creating applications, starting scans, editing issues, and managing reports. For a detailed list of Application Level Permissions, see "Application Level Permissions" on page 272.

Tenant Level Permissions

The following table lists the tenant level permissions that are available for a role. Any tenant level permission except Administration, which is tied to the Security Lead role, can be assigned to a custom role.

Category	Permissions	Actions Allowed
Administration	N/A (limited to Security Leads)	Manage security policies
		Manage attributes
		Configure user security
		Manage API keys
		Configure SSO
		• View administration event log
		Manage roles
		• Manage global audit templates
		• Download static scan payload
		for all applications
Application	• Manual - Applications are not assigned	Determined by the application
Access	by default. Applications must be	level permissions assigned to the
	assigned to a user or group.	role
	If Manual is selected, Manage Users,	

Category	Permissions	Actions Allowed
	 Export Data, Vendor Management, are set to Deny. All - Access to all applications. No restrictions on tenant level permissions. 	
Manage Users	Deny, Allow (requires Application Access be set to All)	 Add, edit, and delete users (only Security Leads can edit other Security Leads) Export user data Manage groups Assign training courses to users View training report
Export Data	Deny, Allow (requires Application Access be set to All)	 View Data Exports tab Create data exports Edit data export templates Delete data export templates Generate data exports Download data exports Delete data export files
Vendor Management	Deny , Allow (requires Application Access be set to All)	Verify and Approve VendorRequest to be VendorPublish Report to Vendor
Download Tools	Deny, Allow	View Tools page
Access Training	Deny, Allow	Take training courses
View Third Party Apps	Deny, Allow	View open source components in use across all applications
Configure Webhooks	Deny, Allow (requires Application Access be set to All)	Manage webhooks

Application Level Permissions

The following table lists the application level permissions that are available for a role. Any application level permission can be assigned to a custom role.

Category	Permissions	Actions Allowed
Applications	View, Manage,	View
	Create	View issues, scans, and reports
		• View Application Monitoring configuration and risk profile
		Download scan results (FPRs and SBOMs)
		Manage
		All View permission actions
		• Edit application settings (except for application name)
		View users assigned to application
		Create release
		Edit release settings
		Delete release
		 Configure Application Monitoring and cancel Application Monitoring scan
		View and export application event log
		Import scan results (FPRs and SBOMs)
		Create
		All Manage permission actions
		Create new application
		Edit application name
		Delete application
lssues	View, Edit, Audit	View
		Add and delete screenshot
		Export the issues list
		Edit

Category	Permissions	Actions Allowed
		 All View actions Edit Assigned User and Developer Status fields, add comment Submit bug Audit All Edit actions Edit Severity and Auditor Status fields Create and edit application audit template
Reports	View, Create	View View main reports Download main reports View vendor reports Download vendor reports Export tenant dashboard Export Your Releases page Create Create reports Delete reports View report templates Create report templates Edit report templates
Start Dynamic Scans	Deny, Configure, Allow	Configure • Edit Dynamic Scan Setup page Allow • Schedule dynamic scan • Cancel dynamic scan
Start Static Scans	Deny, Configure, Allow	ConfigureEdit Static Scan Setup page

Category	Permissions	Actions Allowed
		 Allow Upload static scan payload Cancel static scan Download static scan payload for assigned applications
Start Mobile Scans	Deny, Configure, Allow	Configure Edit Mobile Scan Setup page Allow Schedule mobile scan Cancel mobile scan
Consume Entitlements	Deny, Allow	Consume entitlements when starting a scan

Default Roles

Fortify on Demand is configured with six default roles. Default roles can be edited or deleted with the exception of the Security Lead and Developer roles.

- **Security Lead**—Full access. The Security Lead has access to all applications and can perform all tasks, including creating applications and releases, working with data, auditing issues, and managing reports. The Security Lead is the only role that has the Administration permission, which includes the ability to manage roles, security policies, and other administrative settings.
- **Developer**—Limited access. The Developer has access to applications assigned to the user. The Developer can work with issue data and manage reports. The Developer is the default role for new users.
- Lead Developer—Medium-level access. The Lead Developer can create new applications, but only has access to applications assigned to the user. The Lead Developer can work with issue data, start scans, and manage reports.
- **Application Lead**—Medium-level access. The Application Lead has the same access as the Lead Developer, plus the ability to audit issues.
- **Executive**—Read-only access. The Executive has read-only access to applications assigned to the user.
- **Reviewer**—Read-only access. The Reviewer has read-only access to all applications.

The following table lists the permission set for each default role.

Permission	Security Lead	Developer	Lead Developer (Editable)	Application Lead (Editable)	Executive (Editable)	Reviewer (Editable)		
Tenant Level Permissions								
Administration	Х							
Application Access	All	Manual	Manual	Manual	Manual	All		
Manage Users	Х							
Export Data	Х							
Vendor Management	Х							
Download Tools	Х	X	X	X				
Access Education	Х	X	X	X	X	x		
View Third Party Apps	Х							
Configure Webhooks	Х							
Application Lev	el Permissi	ons						
Applications	Create	View	Create	Create	View	View		
lssues	Audit	Edit	Edit	Audit	View	View		
Reports	Create	Create	Create	Create	View	View		
Start Dynamic Scans	Start	Deny	Start	Start	Deny	Deny		
Start Static Scans	Start	Deny	Start	Start	Deny	Deny		
Start Mobile Scans	Start	Deny	Start	Start	Deny	Deny		

Permission	Security Lead	Developer	Lead Developer (Editable)	Application Lead (Editable)	Executive (Editable)	Reviewer (Editable)
Configure Build Server	X					
Consume Entitlements	X	X	X	Х	X	Х

Viewing Roles

To view the roles in your tenant:

1. Select the **Administration** view.

The User Management page appears.

2. Select the **Roles** tab.

	User Management			
<mark>88</mark> ☑	Users Roles Groups		③ Search Text	Q + ADD ROLE
₹ Çî	6 found			Display: 25 50 100
	ROLE NAME	ASSIGNED USERS	APPLICATION ACCESS	
⊡ -{>	Application Lead	1	Manual	EDIT VIEW USERS DELETE
5	Developer	0	Manual	EDIT VIEW USERS DELETE
49 1	Executive	0	Manual	EDIT VIEW USERS DELETE
~ <u>~</u>	Lead Developer	0	Manual	EDIT VIEW USERS DELETE
	Reviewer	0	All	EDIT VIEW USERS DELETE
	Security Lead	2	All	EDIT VIEW USERS DELETE
	Security Lead	2	All	EDIT VIEW USERS

The following table describes how to navigate the **Roles** tab.

Task	Action
Search the role list	Type a keyword or phrase in the search field and press Enter . To remove the search results, remove the text from the search field and press Enter .
Create a role	Click Add Role . For more information, see "Creating a Role" on the next page.
View users assigned to a role	Click View Users in the action column.
Edit a role	Click Edit in the action column. For more information, see "Editing a Role" on page 278.

Task	Action
Delete a role	Click Delete in the action column. For more information, see "Deleting a Role" on page 279.

Creating a Role

To create a role:

1. Select the **Administration** view.

The **User Management** page appears.

2. Select the **Roles** tab.

≡	User Management			
<mark>88</mark> ☑	Users Roles Groups		③ Search Text	Q + ADD ROLE
₹ Çî	6 found			Display: 25 50 100
	ROLE NAME	ASSIGNED USERS	APPLICATION ACCESS	
≞ -Ð	Application Lead	1	Manual	EDIT VIEW USERS DELETE
5	Developer	0	Manual	EDIT VIEW USERS DELETE
19 19	Executive	0	Manual	EDIT VIEW USERS DELETE
	Lead Developer	0	Manual	EDIT VIEW USERS DELETE
	Reviewer	0	All	EDIT VIEW USERS DELETE
	Security Lead	2	All	EDIT VIEW USERS DELETE

3. Click + Add Role.

The Add/Edit Role window appears.

Add/Edit Role ^⑦						×
Role Name]				
Tenant Level Permissi	ons		Application Level Perm	nissions		
Application Access	Manual	All	Applications	View	Manage	Create
Manage Users		Deny	Issues	View	Edit	Audit
Export Data		Deny	Reports	View		Create
Vendor Management		Deny	Start Dynamic Scans		Den	У
Download Tools		Deny	Start Static Scans		Den	У
Access Training		Deny	Start Mobile Scans		Den	y
View Third Party Apps		Deny				
				S	AVE	CANCEL

4. In the **Role Name** field, type the name of the new role.

- 5. Select tenant and application level permissions for the role. For more information on specific permissions, see "Permissions" on page 270.
- 6. Click **Save**.

The new role appears in the role list.

Editing a Role

To edit a role:

1. Select the **Administration** view.

The User Management page appears.

2. Select the **Roles** tab.

	User Management			
<mark>88</mark> ☑	Users Roles Groups		② Sea	rch Text Q + ADD ROLE
₹	6 found			Display: 25 50 100
	ROLE NAME	ASSIGNED USERS	APPLICATION ACCESS	
⊡ -Ð	Application Lead	1	Manual	EDIT VIEW USERS DELETE
5	Developer	0	Manual	EDIT VIEW USERS DELETE
1 1 1	Executive	0	Manual	EDIT VIEW USERS DELETE
	Lead Developer	0	Manual	EDIT VIEW USERS DELETE
	Reviewer	0	All	EDIT VIEW USERS DELETE
	Security Lead	2	All	EDIT VIEW USERS DELETE

3. Click **Edit** in the row of the role that you want to edit.

? \times Add/Edit Role Role Name **Tenant Level Permissions Application Level Permissions** Application Access All Applications Manage Manage Users Edit Audit Issues Export Data Reports Vendor Management Start Dynamic Scans Download Tools Start Static Scans Access Training Start Mobile Scans View Third Party Apps SAVE CANCEL

The Add/Edit Role modal window appears.

Note: The permission sets of the Security Lead and Developer roles cannot be edited.

- 4. Edit the fields as needed.
- 5. Click Save

The role changes are saved.

Deleting a Role

The Security Lead and Developer roles and roles to which users are assigned cannot be deleted.

To delete a role:

1. Select the **Administration** view.

The **User Management** page appears.

2. Select the **Roles** tab.

≡	User Management			
<mark>88</mark> ☑	Users Roles Groups		0	Search Text Q + ADD ROLE
v S S S S S S	6 found			Display: 25 50 100
	ROLE NAME	ASSIGNED USERS	APPLICATION ACCES	S
⊡ -Ð	Application Lead	1	Manual	EDIT VIEW USERS DELETE
5	Developer	0	Manual	EDIT VIEW USERS DELETE
1 1 1	Executive	0	Manual	EDIT VIEW USERS DELETE
	Lead Developer	0	Manual	EDIT VIEW USERS DELETE
	Reviewer	0	All	EDIT VIEW USERS DELETE
	Security Lead	2	All	EDIT VIEW USERS DELETE

3. Click **Delete** in the row of the role that you want to delete.

A confirmation message appears.

4. Click **Yes**.

The role is deleted.

Users

Users with the Manage Users permissions can manage users and groups.

This section covers the following topics:

Viewing Users	279
Creating a User	
Editing a User Account	
Managing Application Assignment to a User	
Deleting a User Account	

Viewing Users

To view the users in your tenant:

1. Select the **Administration** view.

The **Users** tab of the User Management page appears.

	Use	Jser Management											
8 8 ⊡	User	Roles (Groups						Search Tex	•	۹	EXPORT + AD	DD USER
ŝ	6 fou											Display: 25	50 100
	SELEG	USER NAME	FIRST NAME	LAST NAME	EMAIL	PHONE NUMBER	ROLE NAME	STATUS	LAST LOGIN DATE				
5		BrownD	Bob	Brown	yeu-li.huang@microfocus.com		Developer	Inactive	2020/02/17	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATIONS	DELETE
		HuangE2	Edward	Huang	huange2@fod.com		Executive	Active	2020/11/04	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATIONS	DELETE
Ð		HuangLDev2	julie	Huang	julieh@fod.com		Lead Developer	Inactive	2019/07/25	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATIONS	DELETE
Ū		HuangR2	Cony	Huang	huangr2@fod.com		Reviewer	Active	2020/11/04	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATIONS	DELETE
્ર ટ્વે		HuangSLead2	Sally	Huang	sallyh@fod.com		Security Lead	Active	2021/03/10	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATIONS	DELETE

The following table describes how to navigate the **Users** tab.

Task	Action
Search the user list	Type a word or phrase in the search field and press Enter . To remove the search results, remove the text from the search field and press Enter .
Export the user list.	Click Export . A CSV file containing details of all users is saved locally to a folder specified in your browser settings.
Add a user	Click Add User . For more information, see "Creating a User " below.
Assign and unassign applications	Click Assign Applications in the action column. For more information, see "Managing Application Assignment to a User" on page 283.
View applications assigned to a user	Click View Applications in the action column.
Edit a user	Click Edit in the action column. For more information, see "Editing a User Account" on page 282.
Delete a user	Click Delete in the action column. For more information, see "Deleting a User Account" on page 286.

Creating a User

To create a user:

1. Select the **Administration** view.

The **Users** tab of the User Management page appears.

	Use	r Manage	ement										
8 8 ⊡	Users	Roles	Groups						Search Tex	t	٩	EXPORT + A	DD USER
E S S S S S S S S S S S S S S S S S S S	6 fou											Display: 25	50 100
	SELEC	USER NAME	FIRST NAME	LAST NAME	EMAIL	PHONE NUMBER	ROLENAME	STATUS	LAST LOGIN DATE				
5		BrownD	Bob	Brown	yeu-li.huang@microfocus.com		Developer	Inactive	2020/02/17	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATIONS	DELETE
		HuangE2	Edward	Huang	huange2@fod.com		Executive	Active	2020/11/04	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATIONS	DELETE
Ð		HuangLDev2	julie	Huang	julieh@fod.com		Lead Developer	Inactive	2019/07/25	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATIONS	DELETE
D		HuangR2	Cony	Huang	huangr2@fod.com		Reviewer	Active	2020/11/04	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATIONS	DELETE
્યુપિ		HuangSLead2	Sally	Huang	sallyh@fod.com		Security Lead	Active	2021/03/10	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATIONS	DELETE

2. Click + Add User.

The Add/Edit User window appears.

Add/Edit User		×
Jser Name	Select groups that the user(s) should be a	a member.
	Search	
mail	GROUP NAME	ASSIGNED USERS
irst Name		
	\searrow	
ast Name		
hone Number		
ole		
Developer 🗸		
Inactive		
		SAVE CANCEL

3. Complete the fields as needed. Fields are required unless otherwise noted.

Field	Description
User Name	Type a unique username. The username cannot be changed after the user is created.
Email	Type the user's email address.
First Name	Type the user's first name.

Field	Description
Last Name	Type the user's last name.
Phone Number	(Optional) Type the user's phone number. Hyphens and other separators are not accepted.
Role	Select the user role (default role is Developer). For more information on user roles, see Roles and Permissions.
Inactive	(Optional) Select the check box to mark the user as inactive. The user will be unable to log in to Fortify on Demand.

- 4. (Optional) Select the groups to which the user will be assigned. You can use the search box to filter the group list.
- 5. Click **Save**.

The new user appears in the user list.

Editing a User Account

You can edit an existing user account, including resetting the user's password.

1. Select the **Administration** view.

The **Users** tab of the User Management page appears.

Ξ	Use	lser Management											
88	Users Roles Groups							Search Tex	+	۹ 🗌	EXPORT + AD	DD USER	
⊡ ॐ	6 fou											Display: 25	50 100
	SELEC	USER NAME	FIRST NAME	LAST NAME	EMAIL	PHONE NUMBER	ROLENAME	STATUS	LAST LOGIN DATE				
5		BrownD	Bob	Brown	yeu-li.huang@microfocus.com		Developer	Inactive	2020/02/17	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATIONS	DELETE
		HuangE2	Edward	Huang	huange2@fod.com		Executive	Active	2020/11/04	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATIONS	DELETE
Ð		HuangLDev2	julie	Huang	julieh@fod.com		Lead Developer	Inactive	2019/07/25	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATIONS	DELETE
Ū		HuangR2	Cony	Huang	huangr2@fod.com		Reviewer	Active	2020/11/04	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATIONS	DELETE
s li		HuangSLead2	Sally	Huang	sallyh@fod.com		Security Lead	Active	2021/03/10	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATIONS	DELETE

 Click Edit in the row of the user whom you want to edit. The Add/Edit User window opens.

Jser Name	Select groups that the user(s) should be	a member.
SmithALead2	Search	
mail		
james@fod.com	GROUP NAME	ASSIGNED USERS
First Name		
James		
.ast Name		
Smith		
Phone Number		
Role		
Application Lead	~	
Password		
Confirm Password		
Must change on next login		
Inactive		

3. Edit the fields as needed. The following fields are used for resetting a user's password.

Field	Description
Password	Type a new password for the user. The password needs to meet complexity requirements.
Confirm Password	Retype the same password.
Must change on next login	Select the check box to require the user to change the password the next time the user logs in.

5. Click **Save**.

4.

The user changes are saved.

Managing Application Assignment to a User

Users with the **Manage Users** permission can manage application access to a user from the Administration view.

To manage application access to a user:

1. Select the **Administration** view.

The **User** tab of the User Management page appears.

	Use	r Manage	ement										
88 ©	Users	Roles	Groups						Search Tex		٩	EXPORT + AD	DD USER
∑ S	6 fou											Display: 25	50 100
	SELEC	USER NAME	FIRST NAME	LAST NAME	EMAIL	PHONE NUMBER	ROLE NAME	STATUS	LAST LOGIN DATE				
5		BrownD	Bob	Brown	yeu-li.huang@microfocus.com		Developer	Inactive	2020/02/17	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATIONS	DELETE
		HuangE2	Edward	Huang	huange2@fod.com		Executive	Active	2020/11/04	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATIONS	DELETE
Ð		HuangLDev2	julie	Huang	julieh@fod.com		Lead Developer	Inactive	2019/07/25	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATIONS	DELETE
J		HuangR2	Cony	Huang	huangr2@fod.com		Reviewer	Active	2020/11/04	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATIONS	DELETE
્ર્યુ હ		HuangSLead2	Sally	Huang	sallyh@fod.com		Security Lead	Active	2021/03/10	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATIONS	DELETE

2. Click **Assign Applications** in the row of the user for whom you want to edit application access.

The Assign Application window appears.

Note: The link is unavailable if a user is assigned to a role with the **All Application Access** permission.

3. You can perform the following tasks:

Task	Pro	cedure					
Assign applications to	a.	Select the	Available tal	b.			
user		Assign Applica	ations			×	
		Selected Available		\sim	Search	Q	
		ASSIGN	gger Petstore	APPLICATION			
			access test				
					SAVE	CANCEL	
	b.	Perform th	ne following a	ctions to select app	olications:		

Task	Procedure							
	$^\circ$ Select the check box next to individual applications.							
	$^\circ$ $$ Select the ASSIGN check box to select displayed							
	 applications. Select the Assign All Tenant Applications check box select all applications. 							
	You can use the search field to filter the applicatio	n list.						
Remove applications	a. Click Assign Applications.							
from user	b. Select the Selected tab.							
	Assign Applications	×						
	Selected Available Search	Q						
	Unassign All Tenant Applications ASSIGN APPLICATION	^						
	iGoat Android (JAVA)							
	iGoat iOS (Objective-C)							
	Jeopardy (PHP)							
	OpenSSL (C Source) Rubix (JAVA-No Source)							
	WebGoat							
	WebGoat (NET)							
	Zero							
	Zero Security (COBOL)							
		×						
		SAVE CANCEL						
	c. Perform the following actions to remove application	ons:						
	 Clear the check box next to individual applicati 	ons.						
	 Clear the ASSIGN check box to remove displayed applications. 							
	 Select the Unassign All Tenant Applications remove all applications. 	check box to						
	You can use the search field to filter the applicatio	n list.						

4. Click **Save**.

The changes to the user's assigned applications are saved.

Related Topics

To manage user access to applications at the application level, see "Managing User Assignment to an Application" on page 52.

Deleting a User Account

To delete a user account:

1. Select the **Administration** view.

The **Users** tab of the User Management page appears.

	User Management												
88	User	Roles	Groups						Search Te	ĸt	۹	EXPORT + AD	DD USER
۲ کې	6 found Display. 25 51									50 100			
	SELE	USER NAME	FIRST NAME	LAST NAME	EMAIL	PHONE NUMBER	ROLE NAME	STATUS	LAST LOGIN DATE				
5		BrownD	Bob	Brown	yeu-li.huang@microfocus.com		Developer	Inactive	2020/02/17	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATIONS	DELETE
		HuangE2	Edward	Huang	huange2@fod.com		Executive	Active	2020/11/04	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATIONS	DELETE
Ð		HuangLDev2	julie	Huang	julieh@fod.com		Lead Developer	Inactive	2019/07/25	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATIONS	DELETE
0		HuangR2	Cony	Huang	huangr2@fod.com		Reviewer	Active	2020/11/04	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATIONS	DELETE
્રી હ		HuangSLead2	Sally	Huang	sallyh@fod.com		Security Lead	Active	2021/03/10	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATIONS	DELETE

2. Click **Delete** in the row of the user whom you want to delete.

A confirmation message appears.

3. Click Yes.

The user is deleted.

Note: When a user is deleted, occurrences of the user name, full name, email, and phone number are removed except when necessary for referential integrity and replaced with an unique user ID.

Groups

Users can be sorted into groups to which applications can be assigned. This allow streamlining of application assignment. Groups can be designed around business groups, regions, or other organizational structure.

This section covers the following topics:

Viewing Groups	
Creating a Group	
Editing a Group	
Managing Application Assignment for a Group	
Deleting a Group	

Viewing Groups

To view the groups in your tenant:

1. Select the **Administration** view.

The User Management page appears.

2. Select the **Groups** tab.

User Management					
Users Roles Groups		Search Text	٩	EXPORT + ADD	GROUP
1 found				Display: 25	50 100
GROUP NAME	ASSIGNED USERS	ASSIGNED APPLICATIONS			
ApplicationLead	0	0	EDIT	ASSIGN APPLICATIONS	DELETE

The following table describes how to navigate the **Groups** tab.

Task	Action
Search the group list	Type a keyword or phrase in the search field and press Enter . To remove the search results, remove the text from the search field and press Enter .
Export data as a .csv file	Click Export . A .csv file containing user group details is saved locally to a folder specified in your browser settings.
Add a group	Click Add Group . For more information, see "Creating a Group" below.
Edit a group name and assigned users	Click Edit in the action column. For more information, see "Editing a Group" on the next page.
Assign and unassign applications	Click Assign Applications in the action column. For more information, see "Managing Application Assignment for a Group" on page 290.
Delete a group	Click Delete in the action column. For more information, see "Deleting a Group" on page 292.

Creating a Group

To create a group

1. Select the **Administration** view.

The User Management page appears.

2. Select the **Groups** tab.

User Management							
Users Roles Groups		Search Text	Q EXPORT + ADD GROUP				
1 found			Display: 25 50 100				
GROUP NAME	ASSIGNED USERS	ASSIGNED APPLICATIONS					
ApplicationLead	0	0	EDIT ASSIGN APPLICATIONS DELETE				

3. Click +Add Group.

The Add/Edit Group window appears.

Add/Edit	Group					\times	
Group Name							
Group Descripti Group Descri							
Selected	Available			Search		Q	
	AssignmentControl						
ASSIGN	LAST NAME	FIRST NAME	EMAIL		ROLE NAME		
	Huang	julie	julieh@fod.com		Lead Developer		
	Line	Brown	brownd@fod.com		Test		
	Smith	James	jamess@fod.com		Application Lead		

- 4. In the **Group Name** field, specify the name of the group.
- 5. (Optional) In the **Group Description** field, specify a description of the group.
- 6. You can perform the following actions to select applications:
 - Select the check box next to individual users.
 - Select the **ASSIGN** check box to select displayed users.
 - Select the **Assign All Tenant Applications** check box to select all users.
- 7. Click Save.

The new group appears in the group list.

Editing a Group

To edit a group name as well as manage user assignment for a group:

1. Select the **Administration** view.

The User Management page appears.

2. Select the **Groups** tab.

User Management			
Users Roles Groups		Search Text	Q EXPORT + ADD GROUP
1 found			Display: 25 50 100
GROUP NAME	ASSIGNED USERS	ASSIGNED APPLICATIONS	
ApplicationLead	0	0	EDIT ASSIGN APPLICATIONS DELETE

- Click Edit in the row of the group that you want to edit. The Add/Edit Group window opens
- 4. You can perform the following tasks:

Task	Procedure					
Edit the group name	In the Group Name field, type the new name of the group.					
Assign users to group	a. Select the Available tab.					
	Add/Edit Group Image: Composition Group Description Group Description Selected Available					
	AssignmentControl					
	Assign All Tenant Users ASSIGN LAST NAME FIRST NAME EMAIL ROLE NAME					
	Huang julie julieh@fod.com Lead Developer					
	Line Brown brownd@fod.com Test					
	Smith James jamess@fod.com Application Lead					
	 b. Perform the following actions to select applications: Select the check box next to individual users. Select the ASSIGN check box to select displayed users. Select the Assign All Tenant Users check box to select all users. You can use the search field to filter the user list. 					
Unassign users from	a. Select the Selected tab.					
group	 b. Perform the following actions to remove users: ° Clear the check box next to individual users. 					

Task	Procedure
	 Clear the ASSIGN check box to remove displayed users.
	 Select the Unassign All Tenant Users check box to remove all users.
	You can use the search field to filter the user list.

5. Click Save.

Your group changes are saved.

Managing Application Assignment for a Group

Users with the **Manage Users** permission can manage application assignment for a group from the Administration view.

To manage application assignment for a group:

1. Select the **Administration** view.

The User Management page appears.

2. Select the **Groups** tab.

User Management			
Users Roles Groups		Search Text	Q EXPORT + ADD GROUP
1 found			Display: 25 50 100
GROUP NAME	ASSIGNED USERS	ASSIGNED APPLICATIONS	
ApplicationLead	0	0	EDIT ASSIGN APPLICATIONS DELETE

- 3. Click **Assign Applications** in the row of the group to which you want to assign applications. The Assign Applications window opens.
- 4. You can perform the following tasks:

Task	Procedure
Assign applications to	a. Click Assign Applications.
group	b. Select the Available tab.

Task	Procedure
	Assign Applications X
	Selected Available Search Q
	Assign All Tenant Applications
	Swagger Petstore
	user access test
	SAVE CANCEL
	c. Perform the following actions to select applications:
	 Select the check box next to individual applications.
	 Select the ASSIGN check box to select displayed applications.
	 Select the Assign All Tenant Applications check box to select all applications.
	You can use the search field to filter the application list.
	d. Click Save .
Unassign applications	a. Click Assign Applications.
from group	b. Select the Selected tab.

Task	Procedure	9			
	Assign A	Applications			×
	Selected	Available		Search	Q
	Unassig ASSIG	gn All Tenant Applications N	APPLICATION		^
		iGoat Android (JAVA)			
		iGoat iOS (Objective-C)			
		Jeopardy (PHP)			
		OpenSSL (C Source)			
		Rubix (JAVA-No Source)			
		WebGoat			
		WebGoat (.NET)			
		Zero			_
		Zero Security (COBOL)			
				SAVE	CANCEL
	c. Perfor	m the following a	ctions to remove	applications:	
	° Cle	ar the check box	next to individua	l applications.	
		ear the ASSIGN cl	neck box to remo	ve displayed	
		ect the Unassign remove all applica		lications chee	ck box
	You ca	an use the search	field to filter the	application lis	t.
	d. Click S			-	

5. Click **Save**.

The changes to the group's assigned applications are saved.

Deleting a Group

To delete a group:

- Select the Administration view. The User Management page appears.
- 2. Select the **Groups** tab.

User Management			
Users Roles Groups		⑦ Search Text	Q EXPORT + ADD GROUP
1 found			Display: 25 50 100
GROUP NAME	ASSIGNED USERS	ASSIGNED APPLICATIONS	
ApplicationLead	0	0	EDIT ASSIGN APPLICATIONS DELETE

3. Click **Delete** in the row of the group that you want to delete.

A confirmation message appears.

4. Click **Yes**.

The group is deleted.

Policy Management

Security Leads can configure how security policies are applied to applications in a tenant. They can also create and manage custom security policies.

This section covers the following topics:

Creating a Security Policy	
Setting the Security Policy	
Deleting a Security Policy	

Creating a Security Policy

To create a custom security policy:

1. Select the **Administration** view.

The User Management page appears.

2. Click Policy Management.

The **Scope** tab of the Policy Management page appears.

3. Select the **Policies** tab.

=	Policy Management			
路	Policy Assignment Policies			+ ADD POLICY
2	,			
રંડુર	POLICY NAME	STAR RATING	COMPLIANCE REQUIREMENT	
	SYSTEM DEFAULT POLICY	At least 3 stars	All vulnerability categories	EDIT DELETE
5				
Ð				
\mathbb{O}				
L)				

4. Click +Add Policy.

The **Add/Edit Policy** wizard appears.

		×
Policy Name New Policy		
Star Rating 🕄 At least 3 stars		~
Application Monitoring Not required		~
Compliance Requirement All vulnerability categories		~
	•	SAVE
	New Policy Star Rating ③ At least 3 stars Application Monitoring Not required Compliance Requirement All vulnerability categories	New Policy Star Rating ① At least 3 stars Application Monitoring Not required Compliance Requirement All vulnerability categories

5. On the Policy Details page, complete the following fields:

Field	Description
Policy Name	Type a name for the policy.
Star Rating	Select the minimum star rating an application must be awarded to be determined as passing.
Application Monitoring	Select whether Application Monitoring is required or not. If it is required, then a production release will fail if Application Monitoring is not enabled for the application.
Compliance Requirement	Select which vulnerabilities are included when determining the pass/ fail status of an application. You can retain the default value of all vulnerabilities or only include issues tagged with a specific compliance requirement, such as OWASP 2021 or PCI 3.2.
	Note: The pass/fail status incorporates Application Monitoring and open source issues.

6. Click **Next**.

7. On the Assessment Types page, select which assessment types are available to applications that have the policy applied.

Add/Edit Policy					×
✓ Policy Details		ved Assessment Types Ilow All Assessment Types			
Assessment Types	Sta				^
Development Releases QA/Test Releases		Static Analysis - Single Scan			
Production Releases		Static Analysis - Subscription			
Summary		Static Assessment - Single Scan			
		Static Assessment - Subscription			
		Static Basic - Single Scan			
		Static Basic - Subscription			
		Static+ Assessment - Single Scan			
		Static+ Assessment - Subscription			
	Dyr	amic			
		Dynamic Basic - Single Scan			
		Dynamic Basic - Subscription			
		Dynamic Express - Single Scan			
					¥
		B/	ACK	NEXT	

- Allow All Assessment Types is selected by default. Leave it selected to have the security policy allow all assessment types, including ones added after the policy has been created.
- Deselect Allow All Assessment Types to individually select assessment types.

Note: If an application undergoes a policy update and has an active subscription or available remediation for an assessment type that is not allowed by the current policy, the subscription or remediation will still be available until it expires or is used.

- 8. Click **Next**.
- 9. On the Development Releases page, complete the fields that apply to Development status releases:

Add/Edit Policy		×
 Policy Details Assessment Types Development Releases QA/Test Releases Production Releases Summary 	Remediation Grace Period (0 - 365 Days) Critical 0 Days High 0 Days	Required Scan Frequency (0 - 365 Days) Static 0 Days Dynamic 0 Days Mobile 0 Days
		BACK NEXT SAVE

Field	Description
Remediation Grace Period (0 - 365 Days)	Specify the issue remediation grace period for each issue severity level. When an issue found in a Development release is within its grace period, it will not affect the pass/ fail status of the release.
	Note: The star rating specified above determines the issue severity levels displayed.
Required Scan Frequency (0 - 365 Days)	Specify the required scan frequency of each scan type. If a Development release has not completed a scan within the designated period of the scan type, it will fail. The value of 0 means no scan is required.

10. Click **Next**.

11. On the QA/Test Releases page, complete the fields that apply to QA/Test status releases:

Add/Edit Policy		×
 Policy Details Assessment Types Development Releases QA/Test Releases Production Releases Summary 	Remediation Grace Period (0 - 365 Days) Critical 0 Days High 0 Days	Required Scan Frequency (0 - 365 Days) Static 0 Days Dynamic 0 Days Mobile 0 Days
		BACK NEXT SAVE

Field	Description
Remediation Grace Period (0 - 365 Days)	Specify the issue remediation grace period for each issue severity level. When an issue found in a QA/Test release is within its grace period, it will not affect the pass/ fail status of the release.
	Note: The star rating specified above determines the issue severity levels displayed.
Required Scan Frequency (0 - 365 Days)	Specify the required scan frequency of each scan type. If a QA/Test release has not completed a scan within the designated period of the scan type, it will fail. The value of 0 means no scan is required.

12. Click **Next**.

13. On the Production Releases page, complete the fields that apply to Production status releases:

Add/Edit Policy		×
 Policy Details Assessment Types Development Releases QA/Test Releases Production Releases Summary 	Remediation Grace Period (0 - 365 Days) Critical 0 Days High 0 Days	Required Scan Frequency (0 - 365 Days) Static 0 Days Dynamic 0 Days Mobile 0 Days
		BACK NEXT SAVE

Field	Description
Remediation Grace Period (0 - 365 Days)	Specify the issue remediation grace period for each issue severity level. When an issue found in a Production release is within its grace period, it will not affect the pass/ fail status of the release.
	Note: The star rating specified above determines the issue severity levels displayed.
Required Scan Frequency (0 - 365 Days)	Specify the required scan frequency of each scan type. If a Production release has not completed a scan within the designated period of the scan type, it will fail. The value of 0 means no scan is required.

14. Click **Next**.

15. On the Summary page, review the policy settings.

d/Edit Policy				
	Policy Details	Development Releases		
 Policy Details 	Policy Name	Remediation Grace Period		
 Assessment Types 	New Policy	Critical: 0 days		
Development Releases	Star Rating	High: 0 days		
QA/Test Releases	At least 3 stars			
QA/ Test Releases	Compliance Requirement	Required Scan Frequency Static: None		
 Production Releases 	All vulnerability categories	Dynamic: None		
Summary	Application Monitoring	Mobile: None		
	Required			
		QA/Test Releases		
	Assessment Types	Remediation Grace Period		
	Allow All Assessment Types	Critical: 0 days		
		High: O days Required Scan Frequency		
		Static: None		
		Dynamic: None		
		Mobile: None		
		Production Releases		
		Remediation Grace Period		
		Critical: 0 days		
		High: 0 days		
		Required Scan Frequency		

16. Click Save.

The new policy appears in the **Policies** tab.

Related Topics:

- For information on Star Ratings, see "Five-Star Assessment Rating" on page 19.
- For Information on manually overriding the Pass/Fail settings, see "Overriding the Security Policy of a Release" on page 65.

Setting the Security Policy

To set the security policy for your tenant:

1. Select the **Administration** view.

The **User Management** page appears.

Click Policy Management.
 The Policy Assignment tab of the Policy Management page appears.

\equiv	Policy Management			
883 [⊽]	Policy Assignment Policies		/ EDIT SCOPE	SAVE
<u>ين</u>	Scope Business Criticality			
5	Policy Assignment			
	High	VIEW		
	System Default Policy	•		
÷	Medium	VIEW		
\odot	System Default Policy	•		
S S	Low	VIEW		
2	System Default Policy	v		

3. Click **Edit**.

The Edit Assignment Scope modal window opens.

Edit Assignment Scope	×	
Scope Business Criticality		•
	SAVE	CANCEL

- 4. Select the scope for determining how polices are applied from the **Scope** list. Only one scope can be applied per tenant. The available values are:
 - **Business Criticality**: groups applications according to their assigned Business Criticality level. For more information on Business Criticality levels, see "Creating an Application" on page 40.
 - Application Type : groups applications as web / thick-client or mobile.
 - **Application Attribute**: groups applications based on the values of the application attribute that you select from the **Attribute** list. This value is invalid if no application attributes have been created in the tenant.

Note: The selection is limited to picklist type attributes that have ten or less values.

5. Click Save.

You are returned to the **Scope** tab.

- 6. Select the policy that will be assigned to each value of the selected scope.
- 7. Click Save.

Your security policy settings are saved.

Deleting a Security Policy

You can delete a custom security policy that is currently not in use. The Fortify on Demand default policy can be edited but not be deleted.

To delete a custom security policy:

1. Select the **Administration** view.

The **User Management** page appears.

2. Click Policy Management.

The **Scope** tab of the **Policy Management** page appears.

3. Select the **Policies** tab.

	Policy Management			
88 5	Policy Assignment Policies			+ ADD POLICY
102 H	POLICY NAME	STAR RATING	COMPLIANCE REQUIREMENT	
	SYSTEM DEFAULT POLICY	At least 3 stars	All vulnerability categories	EDIT DELETE
5				
Ð				
\mathbb{O}				
ţţ				

4. Click **Delete** in the row of the policy you want to delete.

A confirmation message appears.

5. Click **Yes**.

The policy is deleted.

Single Sign-On (SSO)

Single Sign-On (SSO) eliminates the need to maintain separate credentials for Fortify on Demand and helps administrators seamlessly manage user access and provisioning. Fortify on Demand supports SSO integration with existing identity providers through the SAML 2.0 standard for federated identity.

Fortify on Demand supports the following SAML 2.0 bindings:

- POST and Redirect bindings for SAML authentication requests from Fortify on Demand to the identity provider
- POST binding for SAML assertion responses from the identity provider to Fortify on Demand

Security Leads can configure SSO for the tenant. SSO configuration consists of the following tasks:

- Configuring SSO in Fortify on Demand. For instructions, see "Configuring SSO in Fortify on Demand" on the next page.
- Adding the identity provider metadata to Fortify on Demand. For instructions, see "Adding the Identity Provider Metadata" on page 305.
- Downloading the Fortify on Demand metadata. For instructions, see "Downloading the Fortify on Demand Metadata" on page 307
- Configuring SSO in your identity provider. For instructions, see "Configuring SSO in the Identity Provider" on page 307.

Configuring SSO in Fortify on Demand

Configure the Fortify on Demand SSO settings and map the Fortify on Demand attribute names to the identity provider attribute names.

To configure the Fortify on Demand SSO settings:

1. Select the **Administration** view.

The User Management page appears.

2. Click Single Sign-On.

The Single Sign-On page appears.

=	Single Sign-On
88 ©	Settings Failed Logins
1 503	Fortify on Demand supports the SAML 2.0 protocol for integration with your company's single sign-on (SSO) service. Both identity and service provider initiated flows are supported.
	Enable Single Sign-On (SSO)
5	Enable Just-in-Time Provisioning
ß	Enable Just-in-Time group assignment
	Enable Just-in-Time group creation and provision
	Send welcome e-mail to new users
2 (1) C	Require SSO to authenticate all users
¢2	On session expired, Redirect to Identity Provider Login URL
Ł	Identity Provider Initiated SSO
	Enable Enterprise Application setup
	Fortify on Demand SAML Metadata JOWNLOAD

3. Select the desired check boxes:

Field	Description
Enable Single Sign-on (SSO)	This option enables SSO.
Enable Just-in- Time Provisioning	This option allows the automatic creation or update of Fortify on Demand user accounts for users who authenticate through your identify provider.
Enable Just in Time group assignment	Enable Just-in-Time Provisioning must be selected. This option allows the automatic update of Fortify on Demand user group assignments through your identity provider.

Field	Description							
Enable Just in Time group creation and provision	Enable Just-in-Time Provisioning and Enable Just in Time group assignment must be selected. This option allows the automatic creation of Fortify on Demand user groups through your identity provider.							
Send welcome e-mail to new users	New users who are created through the portal will receive a welcome email. However, the welcome email includes password setup instructions that do not apply to users who authenticate through SSO. If this option is not selected, welcome emails are not sent to any new users .							
Require SSO to Authenticate All Users	This option requires all users to use SSO. If this option is not selected, users may log in to Fortify on Demand using SSO authentication or username and password on the standard login page.							
	Note: Enabling this option prevents the use of some specialized clients and integrations that use the Fortify on Demand Web API because the Web API has limited support for SAML authentication tokens. For example, the iOS client requires non-SSO credentials to connect to Fortify on Demand. The recommended approach in this case is to generate a strong, random password (minimum 32 characters) that can be used as a "personal access token" for non-SSO authentication.							
On session expired, Redirect to Identity Provider Login URL	This option has users redirected to their identity provider login page after the session expires or when the user logs out. This feature requires cookies to be enabled in the browser and a user login session within the last 30 days.							
Identity Provider Initiated SSO	Fortify on Demand recommends the service provider-initiated SAML authentication flow, but supports both service provider-initiated and identity provider-initiated flows. If this option is not selected, users log in to Fortify on Demand using the SSO Login URL provided on this page. Fortify on Demand then makes a service provider-initiated request to the identity provider to authenticate the user. If this option is selected, the identity provider-initiated flow is used. Users log in by connecting directly to the identity provider and are redirected to Fortify on Demand after successful authentication.							

Field	Description
Enable Enterprise	If your organization has multiple tenants, this option enables authentication through a single identity provider.
Application setup	Note: If you select this option and have an existing SSO configuration, you will need to download the updated Fortify on Demand metadata and import it into the identity provider, and reimport the identity provider metadata into Fortify on Demand. Alternatively, you can
	append ?t=< <i>sso_login_url_guid></i> to both the Identity Provider Name in the Fortify on Demand SSO settings and the service provider
	name in the identity provider settings, where <sso_login_url_guid> is a unique identifier found in the SSO Login URL.</sso_login_url_guid>

4. In the Attributes section, map the attribute names expected by Fortify on Demand to those configured in the identify provider. Each attribute name defined here must match the exact Name value of the attribute used by the identity provider, and is often defined as a full schema URL. Some identity providers also send a shorter FriendlyName value for the attribute, which can also be used in the attribute mapping. For descriptions of each attribute, see "Configuring SSO in the Identity Provider" on page 307.

Attributes 🕚	
Attribute	Name
User Name	
First Name	
Last Name	
Email	
Mobile Number	
Groups	
Role	
Enable Custom Security Lead Mapping	ng
Custom Mapping	

- Select Enable Custom Security Lead Mapping to map a custom value (instead of the default "Security Lead" value) to the Security Lead role in SAML assertion. Type that value in the Custom Mapping field. Note that this invalidates the default "Security Lead" value used for the mapping.
- 6. Click **Save**.

Your SSO settings are saved.

Adding the Identity Provider Metadata

Add the identity provider metadata by importing it into Fortify on Demand or manually configuring it.

To add the identity provider metadata:

1. Select the **Administration** view.

The **User Management** page appears.

2. Click Single Sign-On.

The Single Sign-On page appears.

=	Single Sign-On
කී	Settings Failed Logins
ً	
£03	Fortify on Demand supports the SAML 2.0 protocol for integration with your company's single sign-on (SSO) service. Both identity and service provider initiated flows are supported.
	Enable Single Sign-On (SSO)
5	Enable Just-in-Time Provisioning
Ē	Enable Just-in-Time group assignment
	Enable Just-in-Time group creation and provision
	Send welcome e-mail to new users
	Require SSO to authenticate all users
II C	On session expired, Redirect to Identity Provider Login URL
Ą	Identity Provider Initiated SSO
	Enable Enterprise Application setup
	Fortify on Demand SAML Metadata

- 3. In the **Configure Identity Provider** section, select the method of adding the identity provider metadata:
 - Import Identity Provider Metadata
 - Edit Manually

User Guide Chapter 7: Administration

Configure Identity Provider		
lmport Identity Provider Metadata		
	[
Edit Manually		
前 REMOVE IDENTITY PROVIDER INFO		
Identity Provider Name		
Identity Provider Login URL		
Authentication Request Binding		
HTTP_POST		\sim
Limit to Values Supported by Identity Provider		
SAML Request Signing Algorithm SHA-1 SHA-256		
Identity Provider Certificate		
SSO Login URL 🟮		
SAVE		

- 4. Follow the instructions for the method that you selected.
 - Import the identity provider metadata:
 - i. Click the browse button.
 - ii. Navigate to and select the .xml file.
 - iii. Click **Import**.
 - Manually configure the identity provider metadata:
 - i. Complete the fields with the information of your identity provider:
 - Identity Provider Name
 - Identity Provider Login URL
 - Authentication Request Binding (select Limit to Values Supported by Identity **Provider** to use the bindings supported by the identity provider)
 - SAML Request Signing Algorithm
 - Identity Provider Certificate

Note: Once SSO is configured, users will need to use the link in the **SSO Login URL** box to log in to Fortify on Demand.

5. Click **Save**.

The identity provider metadata is added to Fortify on Demand.

Downloading the Fortify on Demand Metadata

Download the Fortify on Demand metadata file to help configure your identity provider to respond to authentication requests from Fortify on Demand. The Fortify on Demand metadata file includes the Assertion Consumer Service URLs, the Fortify on Demand certificate, and the entity ID (also known as the service provider name).

To download the Fortify on Demand metadata file:

1. Select the **Administration** view.

The User Management page appears.

2. Click Single Sign-On.

The Single Sign-On page appears.

Spirites The second se

3. Click Download.

The Fortify on Demand metadata file is saved to a local folder specified in your browser settings.

Note: The metadata is also available as a URL to support configuration in identity providers that support automatic metadata retrieval. The metadata is accessed using the absolute path "/SAML" on the portal site (for example, "https://ams.fortify.com/SAML"). The metadata URL does not require authentication, so it can be accessed by the identity provider without supplying Fortify on Demand credentials.

Configuring SSO in the Identity Provider

Fortify on Demand supports any identity provider that conforms to the SAML 2.0 specifications for browser-based authentication flows. Use the following instructions as a guideline for configuring your identity provider for use with Fortify on Demand.

Most required information about the Fortify on Demand service provider can be obtained from the SAML metadata, and many identity providers allows importing the metadata rather than configuring all the settings manually.

To configure SSO in the identity provider:

1. Accept authentication requests from Fortify on Demand.

The identity provider must accept authentication requests sent from the Fortify on Demand service provider name. The service provider name is "https://<tenant_host>/SAML," where the <tenant_host> is your Fortify on Demand datacenter (for

example,"https://ams.fortify.com/SAML"). You can obtain the service provider name from the Fortify on Demand SAML metadata.

Fortify on Demand signs all authentication requests, so you may also choose to validate the signature against the SAML certificate provided in the Fortify on Demand SAML metadata.

Note: Prior to version 5.2, Fortify on Demand used a service provider name that was incompatible with some identity providers. If you set up SSO authentication prior to version 5.2, you can keep the "urn:fortify:FodServiceProvider" service provider name for backward compatibility with the existing identity provider configuration. You are encouraged to migrate to the new service provider name at the earliest convenience.

2. Sign all SAML assertions.

All SAML assertions sent to Fortify on Demand must be signed using the identity provider certificate specified in the Fortify on Demand SSO settings. Fortify on Demand accepts signatures on either the entire SAML response or just the assertion contained in the response.

Note: Fortify on Demand does not support encrypted assertions.

3. Make sure the identity provider's system clock is set properly, preferably from a central time source service such as NIST.

Most SAML assertions contain a valid time period specified by the identity provider. Fortify on Demand checks the time period against its system clock when the assertion is received. Fortify on Demand allows a maximum of 3 minutes clock skew to account for differences in the clock settings. If the assertion is received more than 3 minutes after the expiration time specified in the assertion, then the assertion is rejected.

4. Set the URL where the identity provider will send the SAML assertion response after a user is authenticated

The URL is known as the Assertion Consumer Service URL. It might have a different term, such as "Reply URL," depending on the identity provider. You can obtain the URL from the Fortify on Demand SAML metadata.

5. Define the identity claim attributes to include in the SAML assertion.

Fortify on Demand uses the claim attributes in the SAML assertion to get information about the authenticated user.

Every assertion must contain a User Name attribute, which identifies the user to Fortify on Demand. The value must be unique across Fortify on Demand, so you should use an identifier that is unique to your organization, such as an email address.

Note: Some systems use the **NameID** value in the Subject element of the SAML assertion to pass the user identifier. Fortify on Demand does not support use of **NameID**, so you must also map an attribute for User Name.

The following attributes are used for Just-In-Time (JIT) Provisioning. Attributes are required when creating a new Fortify on Demand user. When updating an existing Fortify on Demand user, all attributes are optional and existing values are retained for unspecified attributes.

Attribute	Required	Description
Email	Yes	Email address of the user. The value can be the same as the User Name value, but is not required. You can map both User Name and Email to the same attribute in the Fortify on Demand SSO settings.
First Name	Yes	First name of the user.
Last Name	Yes	Last name of the user.
Mobile Number	No	Mobile phone number of the user.
Role	No	User role. The value must be a plain text string that matches a role name (case-insensitive) in Fortify on Demand. If a value is not provided, the Developer role is set for a new user. If the value does not match a role name, an error is returned.
Group	No	User group. The value must be a plain text string (maximum 50 characters and case-insensitive). If the value does not match an existing user group in Fortify on Demand, the user group will be created if the portal SSO option Enable Just-in-Time group creation and provision is selected.
		Note: If a user logs in using SSO and the Groups attribute is empty in the SAML assertion, any existing user group assignments will be removed.
provision_ user	Yes	Specifies whether or not a user is automatically created in Fortify on Demand if not found. If the value is set to TRUE, then a new user is created. If the value is set to FALSE or not provided, then a user is not created and the login request will fail if the user does not already exist in Fortify on Demand.
		Note: If a value is not provided and JIT Provisioning is enabled in the portal, provision_user defaults to TRUE.
update_user	No	Specifies whether or not an existing user's details in Fortify on

Required	Description
	Demand are automatically updated from the attribute values in the SAML assertion. If the value is set to TRUE, then user details are automatically updated. If the value is set to FALSE, then user details are not updated.
	If a value is not provided, the value of the provision_user attribute is used. You can specify both to control creating and updating separately. For example, you might want to manually create users in the portal, but have user details updated from the assertion values.
No	If the portal SSO option Enable Enterprise Application setup is selected, this attribute is required.
	Unique identifier found in the SSO Login URL, enclosed in quotation marks. For example, given the URL https://ams.fortify.com/SSO/Login/c7f4cde3-891b-49ea- b7ae-f03de4f8a8dc, the identifier is c7f4cde3-891b-49ea- b7ae-f03de4f8a8dc.

Note: You must configure Fortify on Demand to recognize the attributes used by the identity provider. See "Configuring SSO in Fortify on Demand" on page 302.

Troubleshooting Failed Logins

Troubleshooting a failed SSO authentication request can be a difficult task because the actual values passed in the SAML assertion are hidden from the user. To assist with troubleshooting efforts, the portal provides a log of failed SAML assertions. Failed assertions are deleted after 30 days.

To view a log of failed SAML Assertions:

1. Select the **Administration** view.

The User Management page appears.

2. Click Single Sign-On.

The Single Sign-On page appears.

3. Select the **Failed Logins** tab.

The failed SAML assertion log appears.

=	Single	Sign-On			
路					
9	Settings	Failed Logins		Search Text	۹
ŝ			There are no items to display.		
5					
Ð					
\mathbb{O}					
(f)					

The grid contains the following columns:

- Received Time The time that the SAML assertion was received.
- IP Address The IP address of that client that requested authentication.
- Username The username that was specified in the assertion, if one was found.
- Reason A brief description of the reason why the SAML assertion was rejected.
- 4. Click the **Raw Assertion** link for any failed login to open an XML view of the decoded SAML assertion.

The page displays the details of the assertion, including the time that the assertion was issued by the identity provider, the attributes and values that were provided, the valid time period and audience, and the certificate used to sign the assertion.

Vendor Management

If you would like to share your assessment results with a vendor your company does business with, or with another division of your company, you can do so through the portal, as long as each entity has its own tenant with Fortify on Demand. Relationships between tenants must be initiated by one tenant and confirmed by the other; no one can establish a connection to your tenant without your permission.

Also, each link goes in only one direction. That is, if you would like to share your reports, you must initiate a link to another tenant. If that tenant would like to share its reports with you, it must *also* initiate a link. The **Vendor Report** link is only visible after the sharing relationship is successful, and reports are shared.

Note: You are only sharing your assessment results, your code is not being shared.

This section covers the following topics:

- Initiating a Relationship with Another Tenant
- Accepting a Relationship Initiated by Another Tenant
- Publishing a Vendor Management Report
- Viewing Published Report

Initiating a Relationship with Another Tenant

To establish your tenant as a "Vendor" (that is, one that can send reports to other tenants):

1. Select the **Administration** view.

The User Management page appears.

	User Management												
88 [7]	User	Roles	Groups						Search Tex	ł	٩	EXPORT + AD	DD USER
™	6 fou	nd										Display: 25	50 100
	SELEC	USER NAME	FIRST NAME	LAST NAME	EMAIL	PHONE NUMBER	ROLENAME	STATUS	LAST LOGIN DATE				
		USER NAME	FIRST NAME	LAST NAME	EMAIL	PHONE NOPIBER	ROLE NAME	STATUS	LAST LOGIN DATE				
5		BrownD	Bob	Brown	yeu-li.huang@microfocus.com		Developer	Inactive	2020/02/17	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATIONS	DELETE
		HuangE2	Edward	Huang	huange2@fod.com		Executive	Active	2020/11/04	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATIONS	DELETE
Ð		HuangLDev2	julie	Huang	julieh@fod.com		Lead Developer	Inactive	2019/07/25	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATIONS	DELETE
Ū		HuangR2	Cony	Huang	huangr2@fod.com		Reviewer	Active	2020/11/04	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATIONS	DELETE
્ર્યુપ્રે હ		HuangSLead2	Sally	Huang	sallyh@fod.com		Security Lead	Active	2021/03/10	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATIONS	DELETE

- 2. Click **Vendors**.
- 3. Select the **Customers** tab.

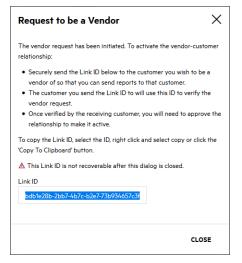
Note: "My Vendors" means tenants you can receive reports from, and "Customers" means tenants you can send reports to.

4. Click **Request to be a Vendor**.

Use the optional **Notes** box to add information about the vendor-customer relationship.

Request to be a Vendor	×
Before you can send an analysis report to a customer, you mus to be a vendor of that customer. To initiate this request click "C This will create a Link ID which you will send to the receiving c	Generate."
Notes	
Used to add supplementary identification information to the company relationship (only viewable by you)	Ŷ
GE	NERATE

5. Click Generate, to display theLink ID number.



- 6. Copy the Link ID number,
- 7. Send the link, via email or other secure transfer, to the appropriate contact at the company or tenant you would like to connect with.
- 8. Click Close.

Accepting a Relationship Initiated by Another Tenant

Accepting a relationship initiated by another tenant is a two-step process.

- "Confirm a Relationship" below
- "Establish your Tenant as a Customer" on the next page

Confirm a Relationship

To confirm a relationship with another tenant who has sent a request to you:

1. Select the **Administration** view.

The **User Management** page appears.

Use	r Manage	ement										
Users Roles Groups Search Text Q EXPORT + ADD USER												
											Display: 2	5 50 100
	USER NAME	FIRST NAME	LAST NAME	EMAIL	PHONE NUMBER	ROLE NAME	STATUS	LAST LOGIN DATE				
	BrownD	Bob	Brown	yeu-li.huang@microfocus.com		Developer	Inactive	2020/02/17	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATION	S DELETE
	HuangE2	Edward	Huang	huange2@fod.com		Executive	Active	2020/11/04	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATION	S DELETE
	HuangLDev2	julie	Huang	julieh@fod.com		Lead Developer	Inactive	2019/07/25	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATION	S DELETE
	HuangR2	Cony	Huang	huangr2@fod.com		Reviewer	Active	2020/11/04	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATION	S DELETE
	HuangSLead2	Sally	Huang	sallyh@fod.com		Security Lead	Active	2021/03/10	EDIT	ASSIGN APPLICATIONS	VIEW APPLICATION	S DELETE
	Users 6 fou	Users Roles 6 found select All SELECT ALL USER NAME BrownD HuangE2 HuangLDev2 HuangR2	6 fourd SELEXTALL USER NAME FIRST NAME BrownD Bob BrownD Bob HuangE2 Idward HuangE2 Cony	User Roles Groups 6 four FRSTNAME LASTNAME SELECTALL VARNAME PIRSTNAME LASTNAME Image: Ima	User First NAME LAST NAME EMAIL BrownD Bob Brown ewarld huange2gefod.com HuangE2ex Edward Huang julie fido.com HuangE2ex Conyo Huang julie julie@fod.com HuangE2ex Conyo Huang julie@fod.com julie@fod.com	User Roles Groups 6 fourt Status SELE-TALL User NAME IRST NAME LAST NAME Image: Roles Brown yeu-luhuang@microfocus.com Image: Roles Edward Huang Image: Roles Edward Huang Image: Roles Edward Huang Image: Roles Julie Huang Image: Roles Cony Huang	User Role Groups Selection of the sel	User Role oups Selection of colspan="4">Selection of colsp	Image: Book of Comparison State of Compa	Bole Goup Search Tele Selection of the search of	Bole Grups Search Text Q S Grups Search Text Search Text Q S Grups VSER NAME INST NAME EMAIL PHONE NUMBER ROLE NAME STATUS LAST LOGIN DATE S BrownD Boba Brown Yeu-khuang@microfocus.com None Developer Inactive 2020/02/17 EDIT ASSIGN APPLICATIONS Image: HuangE2 Edward Huang Juange2@fod.com Com EDIT ASSIGN APPLICATIONS Image: HuangLevz Julie Huang Julieh@fod.com Com Lead Developer Inactive 2020/11/04 EDIT ASSIGN APPLICATIONS Image: HuangLevz Julie Huang Julieh@fod.com Com Lead Developer Inactive 2020/11/04 EDIT ASSIGN APPLICATIONS Image: HuangLevz Julie Huang Julie@fod.com Com Lead Developer Inactive 2020/11/04 EDIT ASSIGN APPLICATIONS Image: HuangLevz Huang Huang2@fod.com Endit Reviewer Active 2020/11/04 EDIT ASSIGN	Bole Grup Search Ted Search Ted Q EXPORT 4 6 forur Search Ted Searc

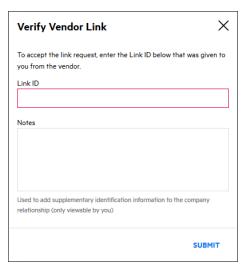
2. Click Vendors.

The **Vendor Management** page opens, displaying the **My Vendors** and **Customers** tabs. In this context, "Vendors" means tenants you can receive reports from, and "Customers" means tenants you can send reports to.

Establish your Tenant as a Customer

To establish your tenant as a "Customer" (that is, one that can receive reports from other tenants):

- 1. Click My Vendors.
- 2. Click Verify Vendor Link.



- 3. Paste the **Link ID** you received from the other tenant.
- 4. (Optional) Add supplementary notes about the company relationship (For example: subsidiary, or AUS division). These notes are viewable only to you.
- 5. Click **Submit**.

Publishing a Vendor Management Report

Once you have established a relationship with another tenant in Fortify on Demand, you can "publish" your reports so that tenant can review them.

To share a report with an approved vendor:

1. Select the **Reports** page.

A new screen appears, with a list of all reports that have been generated for your tenant.

2. Click the name of the report you want to share. The page refreshes with the **Reports Details** below the reports list.

비년	Your Reports						Search Text		۹	+ NEW	REPORT
	1 found								Displa	y: 25	50 100
	REPORT NAME	APPLICATION	RELEASE	CREATED DATE	REPORT TEMPLATE	LANGUAGE	STATUS	CREATED BY			
	WebGoat (.NET) Static Summary	WebGoat (.NET)	5.4	2017/11/09 04:13:04 PM	Static Summary	English	Completed	HuangTam		¥ ₿	×

3. Click ∎.

The **Publish Report** window appears. If you have relationships established with other tenants, those tenants' names appear in the white box.

elect the companies to which you want to publis	h this report.	
TestTenant1		^
eport Name:		
WebGoat (.NET) Static Summary		
reated Date:		
reated Date: 2017/11/09 04:13:04 PM		

Select the tenant name to which you want to send the report, and click **Publish**.
 A note appears informing you that the report has been queued for publishing and will be sent to the other tenant.

Viewing Published Report

After another tenant has published a report to you (that is, "shared" a report with your tenant), you may view that report by following these steps:

- 1. Select the **Reports** page.
- 2. Click Vendor Report.

A **Report List** appears, showing the reports that have been shared with you by other tenants.

E C	Vendor F	Reports					Search Text		۹
	1 found							Display: 25 50 1	00
ភា	NAME	VENDOR TENANT	APPLICATION	RELEASE	CREATED DATE	ТҮРЕ	STATUS		
CSV	GDPR	TestTenant1	18.2_test	1	2018/05/17 09:33:49 PM	Custom_Built	Completed	Ŧ ×	

3. Highlight a report from the list, click **Download Report** in the **Action** column.

A note appears informing you that the report is available to you in PDF format in your system Downloads folder.

Note: If **Vendor Report** does not appear in the list of report types screen, that means no reports have yet been shared by another tenant. Check to make sure that you and the other tenant have both completed all the steps required to create a successful sharing relationship and that a specific report has been "published" to you.

Chapter 8: Fortify on Demand API

Fortify on Demand provides a RESTful Application Programming Interface (API) that allow users to carry out various tasks and access application and release data. The latest version of the API is version 3. The API root URL is determined by the tenant's data center:

Data Center	API Root URL
AMS	https://api.ams.fortify.com
EMEA	https://api.emea.fortify.com
APAC	https://api.apac.fortify.com
SGP	https://api.sgp.fortify.com
FedRAMP	https://api.fed.fortifygov.com
Trial	https://api.trial.fortify.com

Note: The Fortify on Demand API does not support cross-origin resource sharing (CORS).

This section contains the following topics:

API Authentication	
API Scopes	
Personal Access Tokens	319
Viewing API Documentation through API Explorer	
Testing API Endpoints through API Explorer	323
API Rate Limits	326

API Authentication

Authentication of Fortify on Demand API requests is through a bearer token. Obtain a bearer token by sending a request to the token endpoint.

To authenticate Fortify on Demand API calls:

1. Make a POST request to the token endpoint <*datacenter_root_URL*>/oauth/token with the following body parameters:

Note: For a list of data center API root URLs, see "Fortify on Demand API" above.

Body Parameter	Description
scope	Scopes granted to an access token (in lower case). Separate multiple scope values with a space. For a list of scopes, see "API Scopes" on the next page.
grant_type	 Grant type (in lower case): password: user credentials (Resource Owner Password Credentials) client_credentials: API key and secret
username	Account username as <tenant_code>\<username>. Your tenant code and username are displayed in your account settings. Enclose the username with quotation marks to escape special characters.</username></tenant_code>
password	Account password or personal access token. Enclose the password with quotation marks to escape special characters. Note: SSO users are restricted to using personal access tokens.
	Note: If a personal access token is used as a password and the specified scopes do not make up a subset of the personal access token's allowed scopes, the authentication will fail. For more information on personal access tokens, see "Personal Access Tokens" on page 319.
client_id	API key
client_ secret	API secret

A token in a JSON response named "access_token" is returned.

2. Use this token in the Authorization header as a Bearer token:

Authorization: Bearer {token}

The following is an example request to get a bearer token using user credentials:

```
curl --request POST 'https://api.ams.fortify.com/oauth/token' \
--form 'scope="api-tenant"' \
--form 'grant_type="password"' \
--form 'username="myTenantCode\\myUsername"' \
--form 'password="myPassword"'
```

The following is an example request to get a bearer token using an API key and secret.

curl --request POST 'https://api.ams.fortify.com/oauth/token' \
--header 'Content-Type: application/x-www-form-urlencoded' \
--data-urlencode 'scope=api-tenant' \
--data-urlencode 'grant_type=client_credentials' \
--data-urlencode 'client_id=myApiKey' \
--data-urlencode 'client_secret=myApiSecret'

API Scopes

Scopes limit the access that is granted to access tokens. They do not grant additional permissions beyond what a user currently has. You can view the details of an endpoint in API Explorer to see its allowed scopes.

The following table lists the available scopes:

Scope	Description
api-tenant	Grants access to all endpoints
start-scans	Configure and start static, dynamic, and mobile scans; import static and dynamic scans
manage-apps	Manage applications
view-apps	View applications
manage-issues	Manage issues
view-issues	View issues
manage-reports	Manage reports
view-reports	View reports
manage-users	Manage users
view-users	View users
manage- notifications	Manage notifications
view-tenant-data	View data at the tenant level

Personal Access Tokens

Personal access tokens are unique keys tied to the user who generated them. They function as alternate passwords that are used to authenticate to the API; they have the user's permissions and can be further restricted with scopes. Using personal access tokens bypasses two-factor authentication and SSO requirements set in the portal.

Note: Personal access tokens cannot be used to log in to the portal.

Personal access tokens provide a flexible and secure method of authentication for integrations with Fortify on Demand . Users can have multiple tokens with different scopes for specific needs, specify token expiration dates, and disable tokens at any time.

Fortify on Demand sends email and portal notifications 14 days before a personal access token expires. An expired personal access token cannot be used unless a new secret is generated.

This section covers the following topics:

Creating a Personal Access Token	19
Editing or Deleting a Personal Access Token	21

Creating a Personal Access Token

To create a personal access token:

1. Click your account name and select **Personal Access Tokens**.

The Personal Access Tokens page appears.

2	Person	+ AI	DD PERSONAL ACCESS TOKEN				
	NAME	AUTHORIZED	SECRET EXPIRATION DATE	ALLOWED SCOPES	LAST LOGIN DATE	LAST LOGIN IP ADDRESS	
<mark>б</mark> п	test	Yes	2019/02/12 ①	view-apps, view-tenant-data			NEW SECRET EDIT DELETE
丛	view-apps	Yes	2019/03/02	view-apps			NEW SECRET EDIT DELETE
	start-scans	Yes	2019/03/12	start-scans			NEW SECRET EDIT DELETE
	manage	Yes	2019/03/12	manage-apps, view-apps, manage-reports, view-reports, manage-users, view-users	2019/02/10	15.122.105.18	NEW SECRET EDIT DELETE

2. Click +Add Personal Access Token.

The Add/Edit Personal Access Token window opens.

Secret Expiration Days (max 30)
30
~

3. Complete the fields. Fields are required unless otherwise noted.

Field	Description
Name	Type a name for the token.
Authorize to use API	The token is enabled by default. Move the slider to No to disable the token.
Secret Expiration Date, Secret Expiration Days	Use the calendar to select an expiration date or type the number of days after which a secret expires. The token will expire at 00:00 PT of the date you set. The expiration date cannot exceed the maximum lifetime as set by the portal.
Allowed Scopes	Select the allowed scopes for the token. For more information on scopes, see "API Scopes" on page 318.

4. Click Save.

The Secret Key window opens.

- 5. Copy your Base64 encoded secret. The secret is only shown once.
- 6. Click **Close**.

The new token appears in the personal access token list.

Editing or Deleting a Personal Access Token

To edit or delete a personal access token:

1. Click your account name and select **Personal Access Tokens**.

The Personal Access Tokens page appears.

	Personal Access Tokens						DD PERSONAL ACCE	SS TOKEN
2¢	NAME	AUTHORIZED	SECRET EXPIRATION DATE	ALLOWED SCOPES	LAST LOGIN DATE	LAST LOGIN IP ADDRESS		
О п	test	Yes	2019/02/12 ①	view-apps, view-tenant-data			NEW SECRET ED	T DELETE
丛	view-apps	Yes	2019/03/02	view-apps			NEW SECRET ED	IT DELETE
	start-scans	Yes	2019/03/12	start-scans			NEW SECRET ED	T DELETE
	manage	Yes	2019/03/12	manage-apps, view-apps, manage-reports, view-reports, manage-users, view-users	2019/02/10	15.122.105.18	NEW SECRET ED	T DELETE

2. You can perform the following tasks:

Task	Procedure
Generate a new secret	 a. Click New Secret. The New Secret window opens. b. Use the calendar to select an expiration date or type the number of days after which a secret expires. The token will expire at 00:00 PT of the date you set. The expiration date cannot exceed the maximum lifetime as set by the portal. c. Click Create. This will void the current secret.
Edit the token	 a. Click Edit. The Add/Edit Personal Access Token window opens. b. Edit the fields as needed. You cannot edit the current secret's expiration date.
Delete the token	a. Click Delete.A confirmation message appears.b. Click Yes.

Viewing API Documentation through API Explorer

Fortify on Demand API documentation is provided in the form of API Explorer. API Explorer is built on the Swagger (OpenAPI) framework and is available directly from the portal. This allows the API to be self-documenting and interactive; users can instantly view the latest updates to the API and test calls, as well as use the JSON description of the API to generate stubs and SDKs in different programming languages through open source tools like Swagger Editor and Swagger Codegen.

To view API Explorer:

1. Click your account name on the toolbar and select **API Explorer**.

The API Explorer page opens in a new window, displaying a list of resources.

Authenticate access_token	Get JSON
Fortify on Demand Web API Explorer	
ApplicationMonitoring	Show/Hide List Operations Expand Operation:
Applications	Show/Hide List Operations Expand Operation:
Attributes	Show/Hide List Operations Expand Operation
DigitalDiscovery	Show/Hide List Operations Expand Operation
DynamicScans	Show/Hide List Operations Expand Operation
Lookupitems	Show/Hide List Operations Expand Operation
MobileScans	Show/Hide List Operations Expand Operation
MultiFactorAuthorizationCode	Show/Hide List Operations Expand Operation
NetworkScans	Show/Hide List Operations Expand Operation
Notifications	Show/Hide List Operations Expand Operation
OpenSourceComponents	Show/Hide List Operations Expand Operation
Releases	Show/Hide List Operations Expand Operation
Reports	Show/Hide List Operations Expand Operation
StaticScans	Show/Hide List Operations Expand Operation
TenantEntitlements	Show/Hide List Operations Expand Operation
TenantHeatMaps	Show/Hide List Operations Expand Operations

- 2. Explore the resources in greater detail:
 - Click **GET JSON** at the top of the API Explorer page. The browser displays the JSON description of the API.

{"swagger":"2.0", "info":{"version":"v3", "title":"Fortify on Demand Web API Explorer"}, "host": "16.103.234.237", "schemes":["http"], "paths":{"/api/v3/applications/(applications]; "["getr:"("tags::["Applications], "summary": "Retrieves an individual application by id", "operation1d": "Applications", "Getragent", "consumes":[], produces": ["application];"."unattorized", "d44: "(description": Yootx) "JNoFund"); "Somameters":[["("mame": "application1d", "inf");" "definitions/Application"); "Augumary:" "totx), "some"; "Some"; "application1d", "inf", "definitions/Applications], "definitions', "definitions', "paplications', "some"; "some"; "application", "consumes': "["application", "consumes': "["application], "definitions', "faster," if "Applications', "some", "some, "some", "some", "some, "some", "some, "some, "some", "some, "some, "some, "some, "some, "some, "some, "some, "some, "some

You can paste or import the JSON file in a code generator tool that supports Swagger, such as Swagger Editor or Swagger Codegen, and generate client stubs or SDKs.

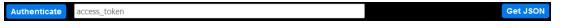
- Click **Show/Hide** to switch between showing and hiding the endpoints.
- Click List Operations to view a resource's endpoints.
- Click **Expand Operations** to view the descriptions of all the resource's endpoints.
- Click an endpoint to view its description.

Testing API Endpoints through API Explorer

You can test the version 3 API endpoints in API Explorer.

Important! POST, PUT, and DELETE methods in API Explorer modify the tenant data in the portal.

1. Click **Authenticate** at the top of the API Explorer page.



A modal window opens where you provide your authentication credentials.

<u>Help with Au</u>	hentication		
Grant Type password			~
-			
Scope			
api-tenant			
Username			
Password			
Tenant			
If your tenar	t requires tw	o-factor aut	henticatior

- 2. Select the method of authentication from the **Grant Type** list:
 - **password**: the user account credentials in the portal
 - client_credentials: the API keys generated in the portal
- 3. In the **Scope** field, type the scopes that will be granted to an access token. Separate multiple scope values with a space. For a list of scopes, see "API Scopes" on page 318.
- 4. Provide your authentication credentials:

Method of Authentication	Procedure
client_ credentials	 a. In the Client ID field, type the API Key. For information on creating an API key, see "Creating an API Key" on page 256. b. In the Client Secret field, type the API secret.
password	Note: You can obtain your tenant code and username from your account settings.
	a. In the Username field, type your account username.b. In the Password field, type your account password or your personal access token.
	Note: If a personal access token is used and the specified scopes are not a subset of the personal access token's allowed scopes, the authentication will fail.
	c. In the Tenant field, type your tenant code.
	 d. (Required if two-factor authentication is enabled) In the Security Code field, type the security code you received as part of two-factor authentication.

5. Click **Submit**.

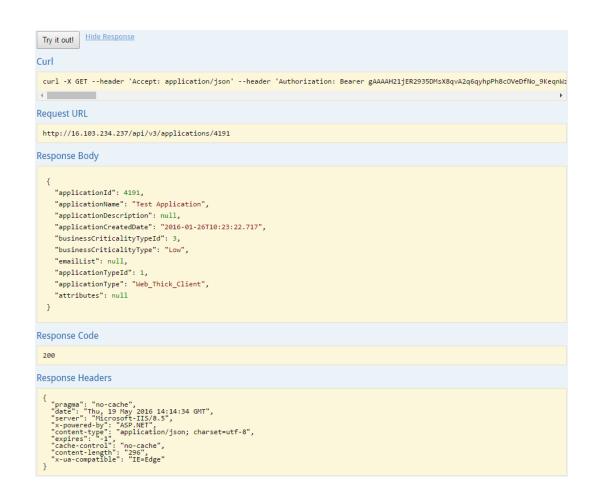
An access token is generated for the session.

6. Expand an endpoint and complete the parameters in the fields provided.

GET /api/v3	/applications/{applicatio	nId}		Retr	ieves an individ	ual application b	y id
Response Class Ok Model Model S							
"application "businessCri "businessCri "emaillist": "application "application	Name": "string", Description": "string", CreatedDate": "2016-05-201 ticalityTypeId": 0, ticalityType": "string", "string", TypeId": 0, Type": "string",	16:01:36.708Z",					•
Parameters							
Parameter	Value		Description	Parameter Type	Data Type		
applicationId	(required)		The application id	path	integer		
Response Mess	0	Respons	e Model			Headers	
401	Unauthorized						
404	NotFound						
500	InternalServerError						
Try it out!							

7. Click **Try it out!**.

The response is displayed below.



API Rate Limits

Fortify on Demand implements API rate limiting on a per endpoint and per user or key basis.

The following endpoints are unthrottled:

- PUT/api/v3/releases/{releaseld}/dynamic-scans/import-scan
- POST /api/v3/releases/{releaseId}/mobile-scans/start-scan
- PUT /api/v3/releases/{releaseld}/mobile-scans/import-scan
- POST /api/v3/releases/{releaseld}/static-scans/start-scan
- PUT /api/v3/releases/{releaseId}/static-scans/import-scan

The following table lists the rate limits for throttled endpoints.

Endpoint	Max Requests	Seconds
POST /api/v3/applications	6	30

Endpoint	Max Requests	Seconds
PUT /api/v3/applications/{applicationId:int}	1	30
GET /api/v3/eventlogs/download	1	300
POST /api/v3/releases	6	30
PUT /api/v3/releases/{releaseId:int}	1	30
POST /api/v3/releases/{releaseId:int}/dynamic-scans/start-scan	1	30
GET /api/v3/releases/{releaseId:int}/fpr	1	30
Note: The rate limit is per scan type.		
GET /api/v3/releases/{releaseld:int}/vulnerabilities/{vulnId}/all- data	1	1
POST /api/v3/releases/{releaseId:int}/vulnerabilities/bug-link	1	5
POST /api/v3/releases/{releaseId:int}/vulnerabilities/bulk-edit	1	5
Other endpoints	10	1

Tracking Rate Limits

When calling an API endpoint, the response HTTP header provides the rate limit and how quickly you are approaching the rate limit:

- X-Rate-Limit-Limit: the maximum number of requests
- X-Rate-Limit-Remaining: the number of requests remaining
- X-Rate-Limit-Reset: the number of seconds until the rate limit resets

When you reach the rate limit for an API endpoint, the API returns an HTTP 429 "Too Many Requests" response status code along with a response message such as:

```
{
   "errors": [
    {
        "errorCode": null,
        "message": "Rate limit of 1 request(s) every 15 second(s) has been
exceeded"
    }
]
```

}

Best Practices To Avoid Rate Limiting

To avoid rate limiting when calling the API, use the following best practices to reduce and regulate the number of API requests:

• Cache frequently used data.

For API endpoints that are frequently used, cache the API responses and load the cached responses when requesting the data.

• Eliminate any unnecessary API calls.

Examine requests obtaining data that isn't being utilized and requests submitting data to Fortify on Demand without any changes.

• Regulate the request rate

If you regularly reach the rate limit, consider including a process that regulates the rate of your requests so that they fall within the given rate limits. You can regulate the request rate statically by setting a fixed request rate or dynamically by tracking requests and regulating them when approaching the rate limit.

Chapter 9: Tools

Fortify on Demand offers a variety of development tools and scanning preparation tools to help your organization integrate application security testing into your DevOps processes.

This section contains the following topics:

Development Tools	329
Scanning Preparation Tools	331
Viewing Tools	333
FoDUploader	333

Development Tools

The following Integrated Development Environment (IDE) tools enable developers to upload code from IDEs to Fortify on Demand for static testing:

IDE Tool	Description	More Information
Eclipse Plugin	Eclipse plugin for uploading code to Fortify on Demand for static scanning and opening scan results for remediation	Fortify on Demand Plugin for Eclipse
IntelliJ IDEA Plugin	IntelliJ IDEA plugin for uploading code to Fortify on Demand for static scanning and opening scan results for remediation	Fortify on Demand Plugin for IntelliJ IDEA
Visual Studio Extension	Visual Studio extension for uploading code to Fortify on Demand for static scanning and opening scan results for remediation	Fortify on Demand Extension for Visual Studio
Fortify Extension for Visual Studio Code	Visual Studio Code extension for uploading code for static scanning	Fortify Visual Studio Code Extension Documentation
Fortify Security Assistant for Eclipse	Fortify Security Assistant for Eclipse provides alerts to potential security issues in Java files as you write code. ¹	Fortify Security Assistant Plugin for Eclipse Documentation

Note: Documentation for each IDE tool is now available as a stand-alone guide.

IDE Tool	Description	More Information
	It includes semantic and intra-class dataflow analyzers to detect:	
	 Potentially dangerous uses of functions and APIs 	
	 Issues caused by tainted data reaching vulnerable functions and APIs at the intra- class level 	
Fortify Security Assistant for IntelliJ and Android Studio	Fortify Security Assistant for IntelliJ and Android Studio provides alerts to potential security issues in Java files as you write code. ¹ It includes structural and configuration analyzers to detect:	Fortify Security Assistant Plugin for IntelliJ IDEA Documentation
	 Potentially dangerous uses of functions and APIs Insecure application configurations in property and XML files 	
Fortify Security Assistant for Visual Studio	Fortify Security Assistant for Visual Studio provides alerts to potential security issues in C# (.cs) , Razor (.cshtml), WebForms (.aspx), .config, .xml, and .ini files as you write code. ¹	Fortify Security Assistant Extension for Visual Studio Documentation
	It includes structural and configuration analyzers to detect:	
	 Potentially dangerous uses of functions and APIs 	
	Insecure application configuration	

¹Fortify Security Assistant requires a valid license file to scan for issues and to install or update Fortify security content. Fortify on Demand offers a license valid for up to 10 developers per each application that is under an active static assessment subscription. The license is valid for all Fortify Security Assistant versions.

The following Continuous Integration and Continuous Delivery (CICD) integration tools enable static and dynamic testing to be integrated into existing build automation:

CICD Tool	Description	More Information
FoDUploader	Stand-alone utility for uploading code from a build server to Fortify on Demand for static scanning	"FoDUploader" on page 333
Fortify on Demand Jenkins Plugin	Jenkins plugin for uploading code to Fortify on Demand and submitting static scans as build tasks	Fortify on Demand Jenkins Plugin Documentation
Fortify Azure DevOps Extension	 Azure DevOps extension for: Uploading code to Fortify on Demand and submitting static scans as build and release tasks Submitting dynamic scans as build and release tasks 	Fortify Azure DevOps Extension Documentation
Fortify CI Tools	Docker container for simplifying integration of Fortify static application security testing for DevSecOps pipelines that use configurable runners to execute CICD workflows	Docker Hub

Scanning Preparation Tools

The following tools are used to prepare application source code for static scanning.

Static Scanning Tool	Description	More Information
Fortify Static Code Analyzer	Translate-only version of Fortify Static Code Analyzer for translating C/C++ and Scala code and packaging it for scanning	Fortify Static Code Analyzer and Tools Documentation
	Note: Fortify Static Code Analyzer requires a valid license file to translate source code.	
Fortify ABAP Extractor	SAP transport request for downloading source code files to the presentation server	"Preparing ABAP (SAP) Application Files" on page 96
Fortify ScanCentral SAST client	Stand-alone Fortify ScanCentral SAST client for packaging source code	"Installing and Using the Fortify ScanCentral

Static Scanning Tool	Description	More Information
		SAST Client" on page 91
Fortify Audit Workbench	Tool for viewing and auditing FPR files	Fortify Static Code Analyzer and Tools Documentation

The following tools are used to prepare web applications for dynamic scanning.

Dynamic Scanning Tool	Description	More Information
Fortify WebInspect Workflow Macro Recorder	Stand-alone utility for creating workflow macros	Fortify WebInspect Documentation
Fortify WebInspect Login Macro Recorder	Stand-alone utility for creating login macros	Fortify WebInspect Documentation
Fortify FoD-SSC Sync	Stand-alone utility for automated, scheduled synchronization of Fortify on Demand applications, releases, and scans with Fortify Software Security Center (SSC)	GitHub
Fortify Bug Tracker	Stand-alone utility for submitting Fortify on Demand issues to bug trackers	GitHub

Other tools include:

Tool	Description	More Information
Fortify FoD-SSC Sync	Stand-alone utility for automated, scheduled synchronization of Fortify on Demand applications, releases, and scans with Fortify Software Security Center (SSC)	GitHub
Fortify Bug Tracker	Stand-alone utility for submitting Fortify on Demand issues to bug trackers	GitHub

Viewing Tools

You can view a list of the tools available for use with Fortify on Demand.

To view the available tools:

1. Click your account name and select **Tools** from the list.

The Tools page appears.

Tools ^⑦	
IDE PLUGINS	
Eclipse	
IntelliJ	
Visual Studio	
VS Code	
Fortify Security Assistant for Eclipse	
Fortify Security Assistant for IntelliJ	
Fortify Security Assistant for Visual Studio	
CI/CD PLUGINS	
Azure DevOps	
Jenkins	
Fortify on Demand Uploader 🕐	
APPLICATION	
SCA Windows	
SCA Mac	
SCA Linux	
UTILITIES	
ScanCentral Client	
Software Security Sync Utility	
ABAP Extractor	

2. Click the links for installers, licenses, and usage instructions.

Note: Usage of most tools does not require a license. Contact support to request a license if you meet the following conditions:

- Fortify Static Code Analyzer: you want to scan C, C++, and Scala code
- Fortify Audit Workbench: you want to view FPR files
- Fortify Security Assistant: you have an active static subscription

FoDUploader

Fortify on Demand provides a build server integration (BSI) tool called FoDUploader to help you upload application code from a build server. FoDUploader runs from the command-line on all major operating systems and thus can easily be integrated into a build script.

The benefits of using FoDUploader include:

- Sending files to Fortify on Demand without size limitations aside from those specified in "Static Assessment File Requirements" on page 90
- Transmitting files securely from a client workstation to Fortify on Demand
- Transmitting through a proxy, if required
- API key pair or PAT authentication

Downloading FoDUploader

FoDUploader is available as a Java application named FoDUpload.jar.FoDUpload.jar and its source code is hosted at https://github.com/fod-dev/fod-uploader-java.

Running FoDUploader

Prerequisite: Java 8 or later must be installed.

To run FoDUploader:

In a command-line interface, run FodUpload.jar with the appropriate arguments. You can also insert the command in your build script to integrate with your build server. The basix syntax is:

```
java -jar FoDUpload.jar -z "<zip_file_path>" {-ac <key> <secret>|-uc
<username> <password>} {-rid <reLID>|-bsi <token>} -purl <purL> -aurl
<aurL> -tc <tcode> -ep
{1|SingleScanOnly|2|SubscriptionOnly|3|SingleScanFirstThenSubscription|4|Su
bscriptionFirstThenSingleScan}
```

If the command is properly executed, the command-line displays the bytes sent and the upload status. Otherwise, the command-line displays an error message indicating the part of the command that is incorrect.

FoDUploader Arguments

The following table describes the FoDUploader arguments. Arguments can be specified in any order.

Note: Flag arguments are false by default. Include a flag to set it to true—you do not need to specify true or false.

Note: Arguments are for version 5.4.0. Details on the latest release is available at https://github.com/fod-dev/fod-uploader-java.

Argument	Short Name	Required	Description	
-zipLocation	-z	Yes	Location of the zip file. Enclose the path with quotation marks to	

Argument	Short Name	Required	Description
			escape special characters.
-entitlementPreferenceType	-ep Yes		Entitlement preference: 1/SingleScanOnly, 2/SubscriptionOnly, 3/SingleScanFirstThenSubscriptio n, 4/SubscriptionFirstThenSingleSca n If multiple entitlements are available, the scan will use the oldest entitlement. If the release has an active subscription, the scan will use the active subscription.
-apiCredentials	-ac	Yes ¹	API key and secret.
-userCredentials	-uc	Yes ¹	Your user credentials. Enclose the username and password separately with quotation marks to escape special characters.
-bsiToken	-bsi	Yes ²	BSI token.
-releaseld	-rid	Yes ²	Release ID. The release must have saved scan settings in the portal for the release ID to be used as a token.
-portalurl	-purl	Yes ³	Domain URL.
-apiurl	-aurl	Yes ³	API root URL.
-tenantCode	-tc	Yes ³	Tenant code if using user credentials.
- assessmentTypeId	-at	Yes ⁴	Assessment type ID.
-entitlement	-eid	Yes ⁴	Entitlement ID.

Argument	Short Name	Required	Description
-technologyStackId	-ts	Yes ⁴	Technology stack as an integer: 1 (.NET), 23 (.Net Core), 2 (ABAP), 21 (Apex/Visualforce), 3 (ASP), 5 (CFML), 6 (COBOL), 22 (Go), 27 (Infrastructure-As- Code/Dockerfile), 7 (JAVA/J2EE/Kotlin), 16 (JS/TS/HTML), 18 (MBS/C/C++/Scala), 9 (PHP), 10 (PYTHON), 17 (Ruby), 12 (Swift/Objective C/C++), 11 (VB6), 14 (VBScript) 1 (.NET), 23 (.Net Core), 2 (ABAP), 21 (Apex/Visualforce), 3 (ASP), 5
			(CFML), 6 (COBOL), 22 (Go), 27 (Infrastructure-As- Code/Dockerfile), 7 (JAVA/J2EE), 16 (JS/TS/HTML), 18 (MBS/C/C++/Scala), 9 (PHP), 10 (PYTHON), 17 (Ruby), 12 (Swift/Objective C/C++), 11 (VB6), 14 (VBScript)
-languageLevelId	-1	Yes ⁴	 Language level as an integer: .NET: 2 (2.0), 3 (3.0), 4 (3.5), 5 (4.0), 11 (4.5), 15 (4.6), 16 (4.7), 30, (4.8), 32 (5.0), 33 (6.0) .NET Core: 23 (1.0), 24 (1.1), 25 (2.0), 26 (2.1), 27 (2.2), 28 (3.0), 29 (3.1)
			 (3.0), 29 (3.1) Java: 8 (1.5), 9 (1.6), 10 (1.7), 12 (1.8), 17 (1.9), 19 (10), 20 (11), 21 (12), 22 (13), 31 (14), 34(17) Python: 13 (2), 14 (2 Django),

Argument	Short Name	Required	Description
			18 (3)
-auditPreferenceId	-a	Yes ⁴	Audit preference: Manual, Automated
-isBinaryScan	-bs	No ⁴	Scan compiled and source code (the feature must be enabled).
- allowopenSourceComponentAnalys is	-os	No ⁴	Include open source component analysis
-remediationScanPreferenceType	-rp	No	Remediation scan preference: O/RemediationScanIfAvailable, 1/RemediationScanOnly, 2/NonRemediationScanOnly (default)
-in Progress Scan Action Type	-рр	No	If an in-progress scan exists, the action to take for the new scan: O/DoNotStartScan (default), 1/CancelScanInProgress, 2/Queue This only applies if the in-progress scan can be automatically cancelled.
-pollingInterval	-1	No	Length of time in minutes between polling Fortify on Demand for the scan status. Polling stops once a scan is canceled, completed, or paused. If the polling interval is not set or set to 0, no polling is done. Exit codes: • 0 = success, scan completed and passed policy • 1 = failure, scan completed and failed policy

Argument	Short Name	Required	Description
			 3 = failure, scan canceled 4 = failure, scan paused
-purchaseEntitlement	-purchase	No	Purchase an entitlement if none is available (the feature needs to be enabled).
-allowPolicyFail	-apf	No	Return exit(0) instead of exit(1) if the scan fails the security policy specified in Fortify on Demand
-proxy	-P	No	 Proxy connection details (order dependent): The proxy host defined with a protocol (such as http) The account credentials on the proxy server The proxy server's domain name for NTLM authentication The proxy server's host name for NTLM authentication
-notes	-n	No	Adds notes about the scan.
-help	-h	No	Prints the help dialog.
-version	-v	No	Prints the FoDUploader version.

¹ Use either API credentials or user credentials.

 2 Use either release ID or BSI token. If both are provided, then the scan settings that are retrieved from the release ID will be used.

³ Required if BSI token is not provided.

⁴ Required if neither release ID nor BSI token is provided. Provided values override existing release ID or BSI token settings.

Examples

Command-line examples:

User Guide Chapter 9: Tools

java -jar FodUpload.jar -z package.zip -purl https://ams.fortify.com -aurl https://api.ams.fortify.com -tc AcmeCo -uc myUsername myPersonalAccessToken -rid 123456 -ep 2

C:\Program Files (x86)\Java\jre-9\bin\java.exe -jar C:\fod_ upload\FodUpload.jar -z c:\Build\Input\applicationFiles.zip -uc john-doe pswd!@#\$ -P http://192.168.56.1:808 proxyuser1 proxyuserpassword -bsi eyJ0ZW5hbnRJZCI6NSwidGVuYW50Q29kZSI6InR0MSIsInJlbGVhc2VJZCI6NDQwNiwicGF5bG9 hZFR5cGUi0iJBTkFMWVNJU19QQV1MT0FEIiwiYXNzZXNzbWVudFR5cGVJZCI6MTIwLCJ0ZWNobm 9sb2d5VH1wZSI6IkFwZXhfVmlzdWFsZm9yY2UiLCJ0ZWNobm9sb2d5VH1wZUlkIjoyMSwidGVja G5vbG9neVZlcnNpb24i0m51bGwsInR1Y2hub2xvZ31WZXJzaW9uSWQi0m51bGwsImF1ZG10UHJ1 ZmVyZW5jZSI6Ik1hbnVhbCIsImF1ZG10UHJ1ZmVyZW5jZUlkIjoxLCJpbmNsdWRlVGhpcmRQYXJ 0eSI6ZmFsc2UsImluY2x1ZGVPcGVuU291cmNlQW5hbH1zaXMi0mZhbHN1LCJzY2FuUHJ1ZmVyZW 5jZSI6I1N0YW5KYXJkIiwic2Nhb1ByZWZ1cmVuY2VJZCI6MSwicG9ydGFsVXJpIjoiaHR0cHM6L y9mb2RxYTktdGVuYW50LmZvcnRpZn1mb2RxYTkubG9jYWwiLCJhcG1Vcmki0iJodHRw0i8vMTYu MTAzLjIzNC4yMzcifQ== -ep 1

Usage notes:

java is the path of the Java executable.

- If java.exe is in the directory from which the command is run or if the java.exe directory is included in the file system path, simply reference java as the path.
- If the java.exe is not in the path, the full path is required (for example, C:\Program Files (x86)\Java\jre-9\bin\java.exe).

The -jar operator informs java.exe that it is working with a JAR file for the rest of the command set.

FoDUpload.jar is the path of the FoDUpload.jar tool.

- If FodUpload.jar is in the directory from which the command is being run, simply reference FoDUpload.jar as the path.
- If FodUpload.jar is in a different directory, the full path is required (for example, C:\fod_upload\fodupload.jar).

Chapter 10: Integrations

This section contains the following topics:

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Importing External Scans

You can import scan results from external sources into Fortify on Demand to manage scan results from multiple sources in a single view. Fortify on Demand supports import of the following scan types:

- On-premises Fortify Static Code Analyzer and Fortify WebInspect scan results
- Open source scan results that conform to the CycloneDX 1.4 standard

This section contains the following topics:

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Importing an On-Premises Scan

You can import on-premises Fortify Static Code Analyzer and Fortify WebInspect scan results into Fortify on Demand. Upon importing an FPR:

- The scan start and complete times use the scan date in the FPR.
- Global and Application Audit Templates are applied.
- The instance ID provided by Fortify Static Code Analyzer or Fortify WebInspect is used to track issues across imported FPRs. Fortify on Demand does not check for duplicate FPRs.

For example, if you import an FPR into an empty release, all imported issues will have the **New** status. If you import the same FPR again, all issues will change from **New** to **Existing**. If you then import a different FPR, the issue statuses will change as follows:

- Issues that exist in both the release and the latest FPR will have the **Existing** status.
- Issues that only exist in the latest FPR will have the **New** status.
- Issues that exist in the release but do not exist in the latest FPR have the **Fixed** status.
- Suppressed issues in the FPR that are not present in the release are imported and suppressed. Suppression status is ignored for issues in the FPR that are present in the release.

Note: FPRs with a scan date older than the most recently completed scan of the same type are not accepted.

To import a static or dynamic FPR:

1. Select the **Applications** view.

Your Applications page appears.

2. Click Your Releases.

Your Releases page appears.

- Click the release for which you want to import an FPR. The Release Overview page appears.
- 4. Click Scans.

The **Release Scans** page appears.

5. Select Import Scan>Dynamic | Static.

The Import Scan window opens.

Import Scan		×
Choose an FPR file to import		
	CANCEL	IMPORT

- 6. Click ... and navigate to and select the FPR file.
- 7. Click **Next**.

Once the import is complete, the results appear on the Issues page. The scan appears on the Release Scans page with a "Completed" status and "Imported (WebInspect)" or "Imported (SCA)" assessment type.

Importing a Software Bill of Materials

Users with the **Manage Applications** permission can import open source scan results, known as software bill of materials (SBOM), from third parties. An SBOM must meet the following requirements to be imported:

- The SBOM is a JSON file that conforms to the CycloneDX 1.4 standard.
- The SBOM contains a single tools entry under the metadata object.
- The SBOM version is higher than the version of the most recently imported SBOM.

To import a software bill of materials:

1. Select the **Applications** view.

Your Applications page appears.

2. Click **Your Releases**.

Your Releases page appears.

3. Click the release for which you want to import an open source scan.

The Release Overview page appears.

4. Click **Scans**.

The Release Scans page appears.

5. Select Import Scan>Open Source.

The Import Open Source Scan window opens.

Import Open Source Scan	×
SBOM Format	
CycloneDx	~
Select File	
Run a Debricked scan to add vulnerability and license information	
CANCEL	

- 6. Click ... and navigate to and select the SBOM.
- 7. If you want to submit a Debricked scan on the SBOM, select **Run a Debricked scan to add vulnerability and license information**.

Note: If this option is selected, a Debricked entitlement will be redeemed for a Debricked subscription assessment. The Debricked subscription is valid for scans on SBOMs imported under the application.

Note: You can submit a Debricked scan at a later time if needed. On the Scans page, locate the imported SBOM and select **Send to Debricked**.

8. Click Next.

Once the import is complete, the results appear on the Issues page. The scan appears on the Release Scans page with a "Completed" status and "<toolName> (Imported)" assessment type.

Deleting an Imported Scan

Users with the Manage Applications permission can delete imported scan results files. A scan cannot be deleted if a subsequent scan of the same type has been imported.

To delete an imported scan:

1. Select the **Applications** view.

Your Applications page appears.

- Click the name of the application for which you want to delete the most recent imported scan. The Application Releases page appears.
- 3. Click Scans.

The Application Scans page appears, displaying scans ran against the application.

9	WebGoat (. Applicat	NET)							
9	4 found RELEASE	SCAN TYPE	ASSESSMENT TYPE	ENTITLEMENT TYPE	STATUS	STARTED	COMPLETED	# ISSUES	Display: 25 50 100
	5.4	Dynamic	Dynamic Express	Subscription	\otimes	2017/11/10	2019/05/06		☑ …
	5.4	Dynamic	Dynamic Premium	N/A	\otimes	2016/05/13	2017/07/19		⊠ …
53 53	5.4	Static	Static Basic	N/A	\oslash	2016/05/13	2016/05/13	34 67 0 7 108	∞ …
50	5.4	Dynamic	Dynamic Premium	N/A	\oslash	2016/05/13	2016/05/13	101 84 11 67 300	∞ …

Note: You can filter the scan list to only view scans ran against a release by clicking the name of the release from the Application Releases page.

4. Click **Cancel Imported Scan** in the action column of the imported scan.

A confirmation message displays.

5. Click **Yes** to confirm the scan cancellation.

The scan is deleted, along with all issues associated with the scan.

Bug Tracker Integration

For tenants that want to link vulnerability results to their bug tracking tools, Fortify on Demand offers bug tracker integration for the latest versions of the following bug trackers:

- OpenText Application Lifecycle Management (ALM)
- OpenText Application Lifecycle Management Octane (ALM Octane)
- Jira

- Bugzilla
- Azure DevOps/Azure DevOps Server.

Users can submit issues as bugs to a supported bug tracker and manage the bugs directly from the portal. For non-supported bug trackers, users can manually add bug tracker links to issues.

This section contains the following topics:

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Configuring Bug Tracker Integration

Bug tracker integration is configured at the application level. You must establish a connection between Fortify on Demand and your bug tracker server (VPN is not an option for establishing the connection). The server will need a dedicated user account for adding and closing bugs.

To configure bug tracker integration for an application:

1. Select the **Applications** view.

Your Applications page displays.

2. Click the application for which you want to configure bug tracker integration.

The application Overview page appears.

3. Click **Settings**.

The Settings page appears.

\equiv	WebGoat (.NET)	
	Application Summary	SAVE X DELETE APPLICATION
(Application Summary Application Attributes Bug Tracker Source Control	
Ø	Application Name	Additional Emails
€	WebGoat (NET)	
U	Business Criticality	
	High 🗸	
٢	Application Type	
	Web / Thick-Client	
2~	Application Description	
	Auto generated	
		Separate multiple email addresses with a semicolon or comma

4. Select the **Bug Tracker** tab.

\equiv	WebGoat (.NET)
٨	Application Summary SAVE × DELETE APPLICATION
۲	Application Summary Application Attributes Bug Tracker Source Control
Ø	Enable Bug Tracker Integration
₿	No
\mathbb{O}	
PDF	

- 5. Move the **Enable Bug Tracker Integration** slider from **No** to **Yes** to enable bug tracker integration.
- 6. Select your bug tracker from the **Bug Tracker** list.

If you selected a supported bug tracker, additional fields appear below. The field names are based on the bug tracker selected.

	WebGoat (.NET)			
\equiv	Application Summary		SAVE	× DELETE APPLICATION
æ	Application Summary Application Attributes Bug Tracker Source Control			
⊕ ⊘	Enable Bug Tracker Integration			
∰ ©	74.221.229.249/32	tworks:		
	Atlassian JIRA	~		
<u>نې</u>	Artassian JIRA URL http://fodga-jira:8080/			
℃ ≣		\$ 2		
	Requester Account ID			
	AUTHENTICATE			
	Domain Component	~		
	Enable Bug State Management			
	Sync Developer Status with Bug Tracker Status			
	Note: New bug tracker comments are included in the sync.			

- 7. In the **URL** field, type the URL of your bug tracker site.
- 8. In the **Username** and **Password** fields, type the login credentials that will be used to log in to the bug tracker site.

If you have a cloud JIRA instance where the Reporter field is required, in the **Requester Account ID** field, type the user ID associated with the provided **Username**.

Important! Atlassian has ended support for basic authentication with passwords and cookie-based authentication for REST APIs.

9. Click Authenticate.

An "Authenticated" message appears if the authentication was successful. The list of categories from the bug tracker site is also populated.

Tip: If you are having trouble authenticating to the bug tracker, see the following troubleshooting tips:

- Check that the bug tracker instance is publicly accessible. For example, you can test the
 accessibility of a Jira instance with the command curl -D- -u <Jira_
 userid>:<Jira_password> http://<host>.atlassian.net/rest
- Enable the bug tracker API, if applicable.

- Check that the account used to log in to the bug tracker has permission to access the bug tracker API.
- Add the Fortify on Demand IP addresses to the allow list in firewalls, IPSs, IDSs, and WAFs. The IP addresses are displayed on the Bug Tracker tab.
- 10. Select the default category to which application's issues will be submitted. Fields are specific to the selected bug tracker.

ValueEdge/ALM Octane: **Project** and **Workspace**

ALM.Net: Domain and Project

Jira: **Project** and **Component**

Bugzilla: Product and Component

Azure DevOps/Azure DevOps Server: Project

11. Move the Enable Bug State Management slider to Yes to enable bug state management. When bug state management is enabled, Fortify on Demand will automatically set bugs to the status listed in the following table once the linked issues have been marked as Fix Validated or Suppressed. A bug that is linked to multiple issues will not be closed unless all issues are Fix Validated or Suppressed.

Bug Tracker	Closed Status
ALM Octane	Fixed (phase.defect.fixed)
ALM	Fixed
Jira	Done
Azure DevOps/Azure DevOps Server	Resolved
ALM.Net	Fixed (phase.defect.fixed)
Bugzilla	Status: Resolved, Resolution: Fixed

Note: Fortify on Demand does not reopen bugs that are linked to reopened issues.

12. (Available for Azure DevOps and JIRA) When Bug State Management is enabled, move the **Sync Developer Status with Bug Tracker Status** slider to **Yes** to sync the Fortify on Demand **Developer Status** values with the bug tracker status values. Map the bug tracker status values to the **Developer Status** values.

Note: The **Developer Status** field of a submitted issue can no longer be edited in Fortify on Demand, as the **Developer Status** is automatically synced with the bug tracker status value. New bug tracker comments are included in the sync.

13. Click Save.

Your bug tracker settings are saved.

Submitting Issues to the Bug Tracker

Once bug tracker integration is configured for an application, a user with Application Access and Edit Issues permissions can submit Fortify on Demand issues as bugs to the bug tracker. The portal prevents issues from being submitted more than once.

To submit issues to the bug tracker:

1. Select the **Applications** view.

Your Applications page appears.

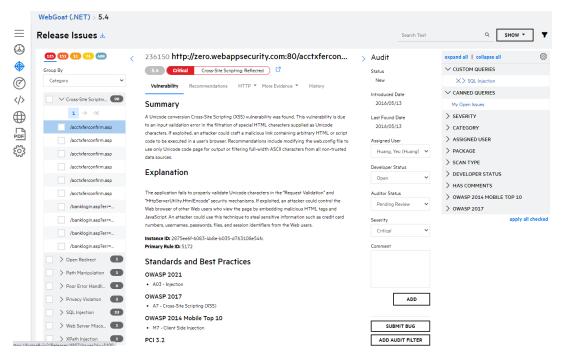
- 2. Click the name of the application with issues that you want to submit to a bug tracker. The Application Overview page appears.
- 3. Navigate to the Application Issues or Release Issues page:
 - To navigate to the Application Issues page:
 - i. Click **Issues**.

The Application Issues page appears.

≡	Application Issues 🛃		Search Text	Q SHOW ▼ ▼
	<u>133</u> 151 11 74 408 <	236150 http://zero.webappsecurity.com:80/acctxfercon	> Audit	expand all collapse all
۲	Group By	5.4 Critical Cross-Site Scripting: Reflected	Status	✓ CUSTOM QUERIES
Ø	Category V	Vulnerability Summary Recommendations HTTP * More Evidence * History	New	X > SQL Injection
			Introduced Date	✓ CANNED QUERIES
€			2016/05/13	My Open Issues
U	$1 \rightarrow \rightarrow$	A Unicode conversion Cross-Site Scripting (XSS) vulnerability was found. This vulnerability is due	Last Found Date	> SEVERITY
	/accixtercontirm.asp	to an input validation error in the filtration of special HTML characters supplied as Unicode characters. If exploited, an attacker could craft a malicious link containing arbitrary HTML or script	2016/05/13	> CATEGORY
PDF	/acctxferconfirm.asp	Contactes in exploring, an analyzer could can a manufactor in a contacting of mini- or script code to be executed in a user's browner. Recommendations include modifying the web-config fit to use only Unicode code page for output or filtering full-width ASCII characters from all non-trusted data sources.	Assigned User	> ASSIGNED USER
ŝ	/acctxferconfirm.asp		Huang, Yeu (Huang): 🗸 🗸	> PACKAGE
2~	/acctxferconfirm.asp		Developer Status	> SCAN TYPE
	/acctxferconfirm.asp		Open 🗸	> DEVELOPER STATUS
	/acctxferconfirm.asp	The application fails to properly validate Unicode characters in the "Request Validation" and	Auditor Status	> HAS COMMENTS
		"HttpServerUtility.HtmlEncode" security mechanisms. If exploited, an attacker could control the	Pending Review	> OWASP 2014 MOBILE TOP 10
	/banklogin.asp?err=	Web browser of other Web users who view the page by embedding malicious HTML tags and	Pending Review •	> OWASP 2017
	/banklogin.asp?err=	JavaScript. An attacker could use this technique to steal sensitive information such as credit card numbers, usernames, passwords, files, and session identifiers from the Web users.	Severity	apply all checked
	/banklogin.asp?err=	Instance ID: 2875ee6f-6083-4b8e-b035-d763108e54fc	Critical 🗸	
	/banklogin.asp?err=	Primary Rule ID: 5172	Comment	
	> Open Redirect	Standards and Best Practices		
	> Path Manipulation	OWASP 2021		
	> Poor Error Handli 6	A03 - Injection		
	> Privacy Violation 2	OWASP 2017	ADD	
	> SQL Injection 33	A7 - Cross-Site Scripting (XSS)		
	> Web Server Misco	OWASP 2014 Mobile Top 10	SUBMIT BUG	
		M7 - Client Side Injection		
	> XPath Injection 1	PCI 3.2 • 6.5.7 - Cross-Site Scripting (XSS)	ADD AUDIT FILTER	
		 o.o./ - cross-one of iping (Abb) 		

- To navigate to the Release Issues page:
 - i. Click the name of a release.
 - ii. Click **Issues**.

The Release Issues page appears.



4. In the navigation panel, select one or more issues that you want to submit. To batch submit issues, select the check boxes next to the issues you want to edit.

Note: If you are on the Application Issues page, selecting the check box next to an issue found in multiple releases selects all instances of the issue.

5. In the audit panel, click **Submit Bug**.

The Submit Bug to <bug_tracker> window opens. The fields are populated with default values, including issue summaries. You can edit the default values.

Project		Selected Issues	1	
Fod QA test 2	~	ISSUE ID	PRIMARY LOCATIO	DN
Component		237080	CustomerLogin.aspx.cs : 72	
Test Component QA 2	~			
Subject			SUBMIT	CANCEL
FoD Security Vulnerability: 237080				
Description				
Open Redirect - 1 Issues				
Issue Details:				
CustomerLogin.aspx.cs: 72 - 237080 - http://fodqa9-				
iis2/Redirect/Issues/237080				
Severity				
Highest	~			
Custom Fields (Required)				
custom text field				
HPE non core asset				
Fortify				

- 6. Fortify on Demand supports custom fields in ALM, Jira, and Azure DevOps. If the bug tracker contains required custom fields, those fields appear in the **Custom Values (Required)** section. Complete the fields.
- 7. Click **Submit**.

You are returned to the Issues page. If the issue submission is pending, the audit panel displays a **Bug Pending** status. Once the issue submission is complete, the audit panel displays a **View Bug** button that links to the issue's bug tracker URL.

Note: When a release is copied, issues in the bug tracker are updated. Links to the newly copied issues are added to the issue descriptions in the bug tracker.

Manually Linking an Issue

You can manually add a bug tracker link to the issue in the portal. This allows tenants using other bug trackers to track external bugs associated with Fortify on Demand issues.

To link a Fortify on Demand issue with an unsupported bug tracker:

1. Select the **Applications** view.

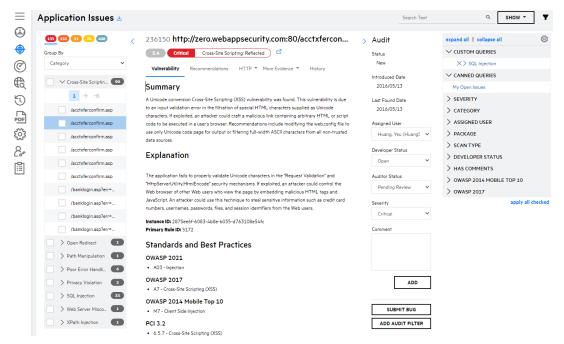
Your Applications page appears.

2. Click the name of the application with issues that you want to submit to a bug tracker.

The Application Overview page appears.

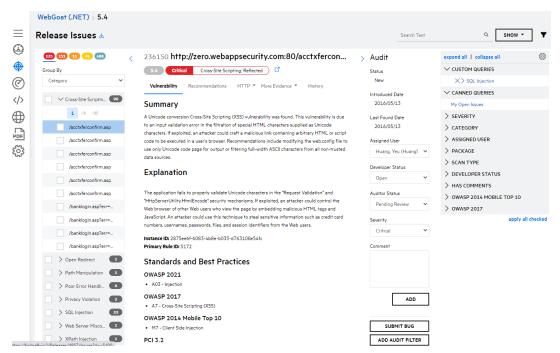
- 3. Navigate to the Application Issues or Release Issues page:
 - To navigate to the Application Issues page:
 - i. Click Issues.

The Application Issues page appears.



- To navigate to the Release Issues page:
 - i. Click the name of a release.
 - ii. Click Issues.

The Release Issues page appears.



4. In the navigation panel, select one or more issues that you want to submit. To batch submit issues, select the check boxes next to the issues you want to edit.

5. Click Submit Bug.

The Submit Bug modal window appears.

ug tracker fields	lssues	
ug URL	Issue Name	Primary Location
	Often Misused: Login	login.html
iggested Subject		
HPE FoD Security Vulnerability: 125823		
uggested Description		
Often Misused: Login - 125823 - http://fodqa9-iis2/Redi rect/Issues/125823		
, eec, issues, issues		

- 6. In the **Bug URL** field, type the bug tracker link that you want to add to the issue.
- 7. Click Save.

Once the issue submission is complete, the audit panel displays a **View Bug** button that links to the issue's bug tracker URL.

Secure Code Warrior Integration

Fortify on Demand has partnered with Secure Code Warrior to provide free interactive training for supported vulnerability categories to Fortify on Demand customers. When viewing an issue, users can launch a training module from the **Launch Training** link in the **Recommendations** tab of the Issue Details panel.

A module consists of short, hands-on challenges in which users analyze software design and code for the vulnerability and then remediate or mitigate the vulnerability. Sample modules are available in all vulnerability categories supported by Secure Code Warrior. Modules are hierarchically organized by category, subcategory, and language.

Fortify on Demand does not share user and organization information with Secure Code Warrior. Additional training is available for purchase from Secure Code Warrior. For more information, see https://www.securecodewarrior.com/.

Launching Secure Code Warrior Training

To launch Secure Code Warrior training for an issue:

1. Select the **Applications** view.

Your Applications page appears.

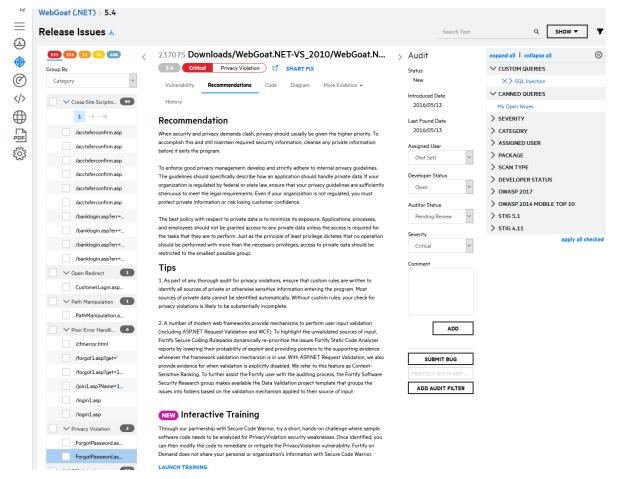
2. Click **Your Releases**.

Your Releases page appears.

- 3. Select a release from your list.
- 4. Click **Issues**.

The Release Issues page appears.

- 5. In the navigation panel, select an issue in an issue category where Secure Code Warrior training is available.
- 6. Select the **Recommendations** tab.



7. In the **Interactive Training** section, click **Launch Training**.

The Secure Code Warrior training module appears in a new window.

Note: If the issue does not belong to a supported vulnerability category, you are redirected to the Secure Code Warrior home page.

Slack Integration for Notifications

Fortify on Demand offers Slack integration for posting notifications to Slack. Security Leads can configure one or more webhooks for the tenant. Once webhooks have been configured, Security Leads can enable posting notifications to Slack when creating notification subscriptions.

This section contain the following topics:

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Configuring Slack Integration

You can configure Slack integration by configuring one or more webhooks for the tenant.

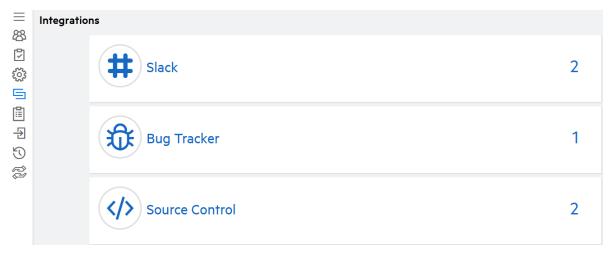
To configure a webhook:

1. Select the **Administration** view.

The **User Management** page appears.

2. Click Integrations.

The **Integrations** page appears.



3. Expand the **Slack** section.

# Slack			2
ADD INTEGRATION			
USER NAME	TEAM NAME	WEBHOOK CHANNEL	
HuangTam	foddoc	#general	ĽX
HuangTam	FortifyDocTeam	#fodslackintegraton	C3×

4. Click Add Integration.

- If you are currently not signed in to a workspace, you are redirected to the Slack workspace sign in page.
- If you are currently signed in to one or more workspaces, you are redirected to the authorization page.

Note: You must have permission to manage apps and integrations for the workspace

5. If you are not signed in to the workspace to which you want to connect, complete the sign-in process. Otherwise, skip to the next step.

foddoc

•

6. Select the workspace, if not already selected, from the list on the top right side of the authorization page.

On foddoc, Fortify on Demand would like to:

Confirm your identity on foddoc				
Post to Select channe		•		
Ca	incel	Authorize		

- 7. Select the channel or user direct message to which notifications will be posted. The available values are the channels and user accounts to which you have access.
- 8. Click **Authorize** to authorize Fortify on Demand to access your Slack account.

You are redirected to Fortify on Demand. A "Slack Integration Successful" message appears. You can now enable posting notifications to the channel. For more information on enabling posting notifications to Slack, see "Creating an Individual Subscription" on page 30 and "Creating a Global Subscription" on page 32.

Deleting Slack Integration

You can delete a Fortify on Demand Slack integration in the following ways:

- Slack workspace owners and users who have permission to manage apps can remove specific authorizations or remove the Fortify on Demand application from the Slack workspace. This will cause posts to Slack to fail.
- Security Leads can delete webhooks in Fortify on Demand.

To delete a Slack integration:

1. Select the **Administration** view.

The **User Management** page appears.

2. Click Integrations.

The **Integrations** page appears.

≡ 88	Integration	ns	2
89 10 10 10 10 10 10 10 10 10 10 10 10 10		Slack	2
		Bug Tracker	1
Ŷ(Source Control	2

3. Expand the **Slack** section.

Slack			2
USER NAME	TEAM NAME	WEBHOOK CHANNEL	
HuangTam	foddoc	#general	C3×
HuangTam	FortifyDocTeam	#fodslackintegraton	Ľ " ×

4. Perform the following tasks depending on your preferences and user permissions:

- To remove authorizations in Slack:
 - i. Click ^{II} in the row of the webhook.

You are redirected to the Fortify on Demand page in your workspace app directory.

Note: You can also access the page from the Slack workspace.

- ii. Remove specific authorizations or remove the application to remove all authorizations. For more information about removing applications from Slack, see the Remove apps and custom integrations from your workspace section of the Slack documentation.
- To remove a webhook in Fortify on Demand:
 - i. Click \times in the row of the webhook.

The webhook is deleted.

Source Control Integration

Fortify on Demand offers source control integration with the following source control platforms: GitHub and Bitbucket. This enables Fortify on Demand to pull source code from repositories on those platforms for static assessments.

The following languages are supported: Java, JavaScript, .NET, PHP, and Python. The requirements for preparing your code for upload to Fortify on Demand remain the same as described in "Preparing Static Assessment Files" on page 90.

Note: For .NET and Java, Fortify recommends pre-compiling your files and uploading them to a release to ensure acceptance of the payload.

Source control integration is configured at the application level. Once it is configured, users can select a branch or release to upload when starting a static assessment.

This section contain the following topics:

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Configuring Source Control Integration with Bitbucket

The Bitbucket integration requires the addition of an OAuth consumer in Bitbucket.

To configure source control integration with Bitbucket:

1. Select the **Applications** view.

Your Applications page appears.

- 2. Click the name of the application that you want to edit.
- 3. Click **Settings.**

The Application Summary page appears.

4. Select the Source Control tab.

\equiv	WebGoat (.NET)		
	Application Summary	SAVE	
۲	Application Summary Application Attributes Bug Tracker Source Control		
Ø			
	Source Code Management Platform		
€	None		
\mathbb{O}			
PDF			

5. Select Bitbucket from the Source Code Management Platform list.

6. In the **Client Key** and **Client Secret** fields, type the OAuth consumer key and secret as generated in Bitbucket.

To generate the key and secret, add an OAuth consumer in Bitbucket. When configuring the consumer, make sure to do the following:

- Set the callback URL to https://*<fod_domain>*/Redirect/OAuth/, where *<fod_domain>* is the Fortify on Demand domain and scheme.
 - ° US:ams.fortify.com
 - ° EMEA:emea.fortify.com
 - ^o APAC: apac.fortify.com
 - ^o FedRAMP: fed.fortifygov.com
- Assign read permission to the account, workspace membership, projects, and repositories.

For more information on adding an OAuth consumer in Bitbucket, see the Integrate another application through OAuth section of the Bitbucket documentation.

Tip: Make sure that the **This is a private consumer** check box is selected in your workspace OAuth consumer settings.

7. Click Authenticate.

If the authentication was successful, you are redirected to the Bitbucket site.

8. Authorize the Fortify on Demand application to access your account.

The **Team** and **Repository** fields are populated. The **Team** field lists your user account and all teams whose repositories you have access to.

- 9. Select the team that owns the repository that will be linked to the application from the **Team** list.
- 10. Select the repository from the **Repository** list.
- 11. Click Save.

Your source control integration settings are saved.

Configuring Source Control Integration with GitHub

The GitHub integration uses the Fortify on Demand Github marketplace application, which is unique to each data center. Source control integration with GitHub Enterprise is not available.

To configure source control integration with GitHub:

1. Select the **Applications** view.

Your Applications page appears.

- 2. Click the name of the application that you want to edit.
- 3. Click Settings.

The Application Summary page appears.

4. Select the **Source Control** tab.

\equiv	WebGoat (.NET)		
	Application Summary	SAVE	\times delete application
۲	Application Summary Application Attributes Bug Tracker Source Control		
Ø			
€	Source Code Management Platform None		
U			
PDF			

5. Select Github from the Source Code Management Platform list.

6. Click **Authenticate**.

If the authentication was successful, you are redirected to the GitHub site.

7. Authorize the Fortify on Demand application to access your account.

The **Organization** and **Repository** fields are populated. The **Organization** field lists your user account and all organizations whose repositories you have access to.

- 8. Select the organization that owns the repository that will be linked to the application from the **Organization** list.
- 9. Select the repository from the **Repository** list.
- 10. Click Save.

Your source control integration settings are saved.

Tracking Configured Integrations

Security Leads can track user-configured integrations with external tools across all applications in Fortify on Demand. Currently, the integrations available for tracking are: bug tracker, source control, and Slack.

To track user-configured integrations across the tenant:

1. Select the **Administration** view.

The **User Management** page appears.

2. Click Integrations.

The **Integrations** page appears.

≡ 88	Integration	ns	
5) C F 📰 🗐 🔅 C 🛠		Slack	2
		Bug Tracker	1
		Source Control	2

3. Expand the sections that you want to view.

# Slack					3
ADD INTEGRATION					
USER NAME	TEA	MNAME	WEE	BHOOK CHANNEL	
HuangTam	foddoc		#general		C7×
HuangTam	FortifyDocTeam		#fodslackintegraton		Ľ₹X
HuangTam	Fortify		@yeu-li.huang729		ĽX
Bug Tracke	er bug tra	ACKER	USER NAME		URL
WebGoat (.NET)	Atlassian JIRA	TAN	lUser	http://fodqa-jira:8080/	
Source Control APPLICATION MANAGEMENT PLATFORM					2
APPLICATION			MANAGEME	INT PLATFORM	
APPLICATION Test Web App		GitHub	MANAGEME	ENT PLATFORM	

4. You can perform the following actions:

- Slack: Click the links in the row of a webhook to remove specific authorizations or delete the webhook. For more information, see "Deleting Slack Integration" on page 356.
- Bug Tracker: Click the link in an application row to be redirected to the application's bug tracker settings. For more information, see "Bug Tracker Integration" on page 343.
- Source Control: Click the link in an application row to be redirected to the application's source control settings. For more information, see "Source Control Integration" on page 357

Training Courses

Fortify on Demand has partnered with Security Innovation to provide secure development training courses . Review your contract to verify if they are included. If you are interested in adding courses, contact your sales representative.

This feature requires pop-ups and cookies to be enabled for the portal.

Viewing Training Courses

To view your assigned training courses:

1. Click the 🖻 icon on the portal toolbar.

The Training page appears. The Courses tab displays the list of your assigned courses with the following information: course name, parent curriculum, module ID, course completion status, last attempted date, passed date, and course link.

Training							
Courses Report Assignment							۹
COURSE NAME	CURRICULUM	MODULE ID	STATUS	LAST ATTEMPTED DATE	PASSED DATE		
AWA 101 - Fundamentals of Application Security	Fundamental	12	Incomplete	2019/02/26	2018/05/17	Start Course	Resume Course
COD 101 - Fundamentals of Secure Development	Fundamental	13	Browsed	2019/02/16	2019/02/16		
COD 153 - Fundamentals of Secure AJAX Code	Fundamental	11				Start Course	
IC	Miscellaneous	2	Incomplete	2019/02/16		Start Course	Resume Course

- 2. Perform one of the following actions:
 - Click the **Start Course** link in the row of a course to start the course.

Starting a course will reset the completion status but not the passed date. Close the course window when you are done to ensure results are properly recorded.

- Click the **Resume Course** link in the row of a course to continue from where you left off.
- Click the **Browse Course** link in the row of a course to view the contents without affecting the completion status or the passed date.

A confirmation message appears.

3. Click Yes.

The course appears in a new window.

Assigning Training Courses

You can assign training courses available to your tenant to yourself. In addition, users with the **Manage Users** permissions can assign training courses to all active users in the tenant. Courses are grouped into different types of curricula and are assigned as a curriculum.

To assign training courses to yourself or another user:

1. Click the 🖻 icon on the portal toolbar.

The Training page appears.

2. Select the **Assignment** tab.

Training							
Courses Report Assig	inment				Search Text	۹	
USER NAME	FIRST NAME	LAST NAME	EMAIL	ROLE	COURSE CURRICULUM		
AndyTest	Andrew	Schmit	andrew.schmit@hpe.com	Security Lead	Creating Secure Code, Miscellaneous	~	
dwayneAppLead	Dwayne	Whiteside	Dwayne.Whiteside@hpe.com	Application Lead	Creating Secure Code, Miscellaneous	٩	
DwayneDev	Dwayne	Whiteside	Dwayne.whiteside1@hpe.com	Developer	Creating Secure Code, Fundamental	٩	
DwayneExec	Dwayne	Whiteside	dwayne.whiteside2@hpe.com	Executive		~	
DwayneLeadDev	Dwayne	Whiteside	dwayne.whiteside3@hpe.com	Lead Developer		~	
DwaynePWtest	Dwayne	Whiteside	dwayne.whiteside@hpe.com	Developer	Miscellaneous	2	
dwayneRev	Dwayne	Whiteside	Dwayne.Whiteside3@hp.com	Reviewer		2	
DwayneSecLead	Dwayne	Whiteside	DWhiteside@hp.com	Security Lead	Fundamental	2	
tcappetto_dev	Tim	Cappetto	tcappetto@hpe.com	Developer	Creating Secure Code	3	
tcappetto_seclead	Tim	Cappetto	cappetto2@hpe.com	Security Lead		8	

If your role has the **Manage Users** permission, the list of active users and their assigned curricula in the tenant appears. Otherwise, you only see your user account and assigned curricula.

3. Click 🖉 next to a user.

The Course Curriculum modal window appears.

4. Select the check boxes next to the curricula that you want to assign to the user.

Click Save.

The **Assignment** tab displays the saved changes.

Viewing the Training Report

Users with the **Manage Users** permission can track user progress in assigned training courses across the tenant by viewing the training progress report. The report provides a tenant-level summary of user activity and a list of course completion statuses per user.

To view the training report:

- Click the control icon on the portal toolbar.
 The Training page appears.
- 2. Select the **Report** tab.

										L	EXPORT
ducation Status		Top Courses (in Minute	s)	Top L	Users			Mos	t Popular		
		1 Common Sec Vulns	538	1	dwayneAppl	Lead	1	1	Common Security V	ulns	1
10	÷	2 IC	167	2	N/A			2	N/A		
		3 N/A		3	N/A			3	N/A		
	5	4 N/A		4	N/A			4	N/A		
1		5 N/A		5	N/A			5	N/A		
										Display: 2	
D found USER NAME	USER ROLE	COURSE NAME	COUR	ISE CURRIC	CULUM	STATUS	LA	AST ATTE	MPTED DATE	Display: 2	
USER NAME	USER ROLE Security Lead	COURSE NAME Common Security Vulns	COUR		CULUM	STATUS	LA	AST ATTE	MPTED DATE		
USER NAME					CULUM	STATUS	LA	AST ATTE	MPTED DATE		
USER NAME AndyTest	Security Lead	Common Security Vulns	Miscellaneous		CULUM	STATUS Completed	2017/07/11	AST ATTE	MPTED DATE		
USER NAME AndyTest AndyTest IwayneAppLead	Security Lead	Common Security Vulns	Miscellaneous		CULUM			AST ATTE	MPTED DATE	PASSED	
USER NAME AndyTest AndyTest IwayneAppLead	Security Lead Security Lead Application Lead	Common Security Vulns IC Common Security Vulns	Miscellaneous Miscellaneous Miscellaneous		CULUM			AST ATTE	MPTED DATE	PASSED	
USER NAME indyTest indyTest wayneAppLead wayneAppLead wayneDev	Security Lead Security Lead Application Lead Application Lead	Common Security Vulns IC Common Security Vulns IC	Miscellaneous Miscellaneous Miscellaneous Miscellaneous		CULUM	Completed	2017/07/11	AST ATTE	MPTED DATE	PASSED	
O found USER NAME AndyTest AndyTest AwayneAppLead WayneAppLead WayneDev WayneDev	Security Lead Security Lead Application Lead Application Lead Developer	Common Security Vulns IC Common Security Vulns IC Common Security Vulns	Miscellaneous Miscellaneous Miscellaneous Miscellaneous		CULUM	Completed	2017/07/11 2017/07/12		MPTED DATE	PASSED	

The tab displays the following information:

- The percentage of assigned courses that were completed
- Charts summarizing user progress and trends:
 - Education Status: the number of courses that are completed, in progress, or have not been started
 - **Top Courses**: the most active courses in terms of minutes spent
 - **Top Users**: the most active users in terms of courses taken
 - **Most Popular**: the courses that have been taken the most
- The **Training Details** grid displaying in each row the tenant user, the assigned course, the course progress status, the last course access date, and the last course completion date.
- 3. Click **Export** to export the **Training Details** grid as a CSV file. Search results are applied to the export.

Webhooks

Webhooks provide a way for notifications to be delivered to an external web server when scans are updated in Fortify on Demand. Users with the **Configure Webhooks** permission can configure webhooks to trigger when a subscribed event occurs. The following events are available: scan start, scan pause, scan resumption, scan cancellation, and scan completion. When an event to which a webhook is subscribed occurs, Fortify on Demand sends an HTTP POST payload to the webhook's configured URL. Webhooks can be used in place of polling in CICD pipelines that incorporate scanning.

This section contain the following topics:

Configuring a Webhook	,	.364
-----------------------	---	------

Webhook Requests and Responses	
Viewing Webhook Deliveries	

Configuring a Webhook

Users with the **Configure Webhooks** permission can configure webhooks for the tenant. A webhook must be assigned to a minimmum of one release.

To configure a webhook:

1. Select the **Administration** view.

The User Management page appears.

2. Click Webhooks.

The Webhooks page appears.

\equiv	Webhooks				
88 E	Webhooks Webhooks Deliveries		Search Text		Q + ADD WEBHOOK
۲ ک	3 found				Display: 25 50 100
	ADDRESS	ID	DESCRIPTION	STATUS	
	https://hooks.slack.com/services/TALM3FNGL/B026W8DLTU4	aa2có83c-bdaó-4035-bó19-1baee2136fc2	Slack-Zero	Active	EDIT ASSIGN RELEASES DELETE
	https://hooks.slack.com/services/TALM3FNGL/B026W8DLTU4	f16b45d0-9631-4af6-9db7-7132d60a1b21	Slack-WebGoat	Active	EDIT ASSIGN RELEASES DELETE
⊡ -Ð	https://webhook.site/89be42d3-a8dd-4414-9e31-6b09a5590ee5	a798dc91-3242-4dc6-8188-2fd3e4aae86e	Zero	Active	EDIT ASSIGN RELEASES DELETE
\mathbb{O}					
L)					
a					

3. Click Add Webhooks.

The Add/Edit Webhooks window appears.

Add/Edit Webhook			×
Payload URL			
Description			
I			
Secret	Which events would you like to tri		
	Scan Started	Scan Paused	
Monitor all application releases	Scan Resumed	Scan Cancelled	
Active Yes	Scan Completed		
	TEST WEBHOOK	SAVE	CANCEL

4. Complete the fields as needed. Fields are required, unless otherwise noted.

Field	Description
Payload URL	Type the URL of the server that will receive the webhook POST requests. For example, https://7e9ea9dc.ngrok.io/payload.
Description	(Optional) Type a phrase that describes the webhook.
Secret	(Optional) Type a secret that can be used to validate that webhook requests sent to the payload URL are from Fortify on Demand. The HMAC-SHA256 algorithm is used in combination with the secret to calculate a hash of the payload body. The output is the HMAC and is included in the header of a request as X-FOD-Signature. Tip: To validate the webhook request, calculate the HMAC by hashing the raw payload body using the HMAC-SHA256 algorithm in combination with the secret, then hex-encoding the hash. Verify that the output matches the value of X-FOD-Signature.
Monitor all application releases	 Set to Yes to monitor all application releases. Set to No to monitor individual releases (default). You can specify releases to monitor after the webhook has been configured.
Active	 Set to Yes to enable the delivery of webhook requests (default). Set to No to disable the delivery of webhook requests.

- 5. Select which scan events will trigger the webhook.
- 6. Click **Test Webhook** to ping the payload URL.

A "Successfully sent a ping event" message appears if the webhook was configured correctly.

7. Click **Save**.

The new webhook appears in the list of webhooks.

Note: You can search webhooks by address, description and full ID. Partial string match is supported for address and description.

8. If you chose to monitor individual releases, clck **Edit** in the row of the webhook.

The Assign Releases window appears.

Selected	Available	Search	۹
13 found		Display: 25	50 100
	APPLICATION	RELEASE	
	iGoat Android (JAVA)	2.4	
	iGoat iOS (Objective-C)	2.4	
	iGoat iOS (Objective-C)	3.0	
	Jeopardy (PHP)	3.1	
	Jeopardy (PHP)	3.2	
	OpenSSL (C Source)	1.0.2a	
	Petstore	v1	
	Rubix (JAVA-No Source)	0.1	
	Swagger Petstore	vl	
	WebGoat	8.0	
	WebGoat (NET)	5.4	
	Zero	vl	
	Zero Security (COBOL)	12.6.8	

 Select the releases that the webhook will monitor and click Save. The webhook is now assigned to the selected releases.

Webhook Requests and Responses

Fortify on Demand sends information about webhook events as HTTP POST requests with the JSON payload as the body of the request.

Note: SSL verification is enabled by default. If the payload Url is HTTPS, Fortify on Demand will verify SSL certificates when sending webhook requests.

Request Example

The following example shows a request with a hash signature in the header as X-FOD-Signature and the JSON payload.

Header:

User Guide Chapter 10: Integrations

```
connection: close
expect: 100-continue
content-length: 324
host: webhook.site
content-type: application/json; charset=utf-8
x-fod-signature:
4F837B0AE04303E975BBCF9FFBBC09E0016013835757BD611C20F7930711980F
x-fod-deliveryid: f8d97b5e-4cae-414b-aa84-8de766f8116f
```

Payload:

```
{
    "deliveryId": "f8d97b5e-4cae-414b-aa84-8de766f8116f",
    "eventName": "scan_started",
    "payload": {
        "scanId": 31278,
        "tenantId": 1126,
        "applicationId": 14155,
        "applicationName": "Zero",
        "releaseId": 16149,
        "releaseName": "v1",
        "scanType": "dynamic"
    },
    "webhookId": "a798dc91-3242-4dc6-8188-2fd3e4aae86e",
    "triggeredAt": "2021-07-02T16:08:28.5496187Z"
}
```

Response Example:

The following example shows the response received by Fortify on Demand.

```
Transfer-Encoding = chunked
Vary = Accept-Encoding
X-Request-Id = e9cbce0c-108f-46e9-b2cc-89f6f0104dca
X-Token-Id = 89be42d3-a8dd-4414-9e31-6b09a5590ee5
Cache-Control = no-cache, private
Date = Fri, 02 Jul 2021 16:08:29 GMT
Set-Cookie = laravel_session=CRuQJLoiFx9ay1UV88ufH83vCOjq1PL0JNOwY59v;
expires=Fri, 02-Jul-2021 18:08:29 GMT; Max-Age=7200; path=/; httponly
Server = nginx/1.14.2
```

Viewing Webhook Deliveries

Users with the **Configure Webhooks** permission can view details of the webhook deliveries, including the HTTP request (including the payload) and the response.

To view the list of webhook deliveries:

1. Select the **Administration** view.

The User Management page appears.

2. Click Webhooks.

The Webhooks page appears.

\equiv	Webhooks				
器	Webhooks Webhooks Deliveries		Search Tex	đ	Q + ADD WEBHOOK
⊡ \$}	3 found				Display: 25 50 100
	ADDRESS	ID	DESCRIPTION	STATUS	
	https://hooks.slack.com/services/TALM3FNGL/B026W8DLTU4	aa2c683c-bda6-4035-b619-1baee2136fc2	Slack-Zero	Active	EDIT ASSIGN RELEASES DELETE
	https://hooks.slack.com/services/TALM3FNGL/B026W8DLTU4	f16b45d0-9631-4af6-9db7-7132d60a1b21	Slack-WebGoat	Active	EDIT ASSIGN RELEASES DELETE
⊡ -Ð	https://webhook.site/89be42d3-a8dd-4414-9e31-6b09a5590ee5	a798dc91-3242-4dc6-8188-2fd3e4aae86e	Zero	Active	EDIT ASSIGN RELEASES DELETE
$\overline{\mathbb{O}}$					
L J					
æ					

3. Select the **Webhook Deliveries** tab.

A list of webhook deliveries appear.

=	Webhook	S			
路	Webhooks	Webhooks Deliveries			Search Text Q
۲ ۲	5 found				Display: 25 50 100
	STATUS	DELIVERED DATE	ADDRESS	DELIVERY ID	
5	\oslash	6/30/2021 11:31:12 PM	https://webhook.site/89be42d3-a8dd-4414-9e31-6b09a5590ee5	bd011784-8dff-4347-a4c5-a5954b94f062	DETAILS
	\oslash	6/30/2021 11:31:11 PM	https://hooks.slack.com/services/TALM3FNGL/B026W8DLTU4	3c727595-35c6-4775-a91b-96006f34a168	DETAILS
÷	\oslash	6/30/2021 9:16:38 PM	https://hooks.slack.com/services/TALM3FNGL/B026W8DLTU4	5a49c118-618d-4ac3-8b49-3e1bd4632d20	DETAILS
$\overline{\mathbb{O}}$	\oslash	6/30/2021 8:37:47 PM	https://hooks.slack.com/services/TALM3FNGL/B026W8DLTU4	8909f981-4cee-4af7-a8cd-418a12ee9aee	DETAILS
() L	\otimes	6/30/2021 7:50:32 PM	https://hooks.slack.com/services/TALM3FNGL/B026W8DLTU4	5ac232d2-2a24-4335-8d3b-cc92b90e72bb	DETAILS
æ					

Note: You can search webhook deliveries by address (partial string match supported) and full ID.

4. Click **Details** in the row of a webhook delivery.

The Webhook Delivery window appears, containing the HTTP request and the reponse. Request:

Webhook	Delivery		×				
	8909f981-4cee-4af7-a8cd-418a12ee9aee	https://hooks.slack.com/services/TALM3FNGL/B026W8DLTU4	6/30/2021, 11:37:47 PM				
Request	Response						
Headers							
	X-FOD-DeliveryId = 8909f981-4cee-4af7-a8cd-418a12ee9aee X-FOD-Signature = 6B5D3EF8315ADFE4728ADCC40ACCE437CB5F215CF8D386B3622B5C6A3EC53A4D						
Content							
["deliveryld":"8909f981-4cee-4af7-a8cd-418a12ee9aee","eventName":"scan_completed","payload": ["scanld":31246,"tenantId":1126,"applicationId":12237,"applicationName"."WebGoat","releaseId":12672,"releaseName":"8.0","scanType"."static","notes":"Scan Job Id 12549 : FPR IMPORT SUCCESSFUL AND AUTOMATICALLY RELEASED"),"webhookId":"f16b45d0-9631-4af6-9db7-7132d60a1b21","triggeredAt":"2021-07-01T03:37:47.3105424Z"}							

Response:

Webhook	Delivery		×
\bigcirc	3c727595-35c6-4775-a91b-96006f34a168	https://hooks.slack.com/services/TALM3FNGL/B026W8DLTU4	7/1/2021, 2:31:11 AM
Request Headers	Response		
x-xss-protection vary = Accept- referrer-policy x-slack-backer strict-transpor	-Encoding r = no-referrer	eload	~
Content			

Chapter 11: Policies and Support

For more information on Fortify on Demand, review the Fortify on Demand policies and support resources.

This section contains the following topics:

Maintenance Schedule and Software Updates	370
Data Retention Policy	371
Getting Support	372

Maintenance Schedule and Software Updates

Fortify on Demand provides the following information regarding maintenance schedule and software updates.

Maintenance Schedule

To help customers plan for scheduled maintenance, Fortify on Demand reserves predefined time frames to be used on an as-needed basis: a weekly two (2) hour window (Thursday 00:00 to 02:00) and one (1) monthly forty-eight (48) hour window (Saturday 00:00 to Sunday 00:00). These maintenance windows will be used on an as-needed basis and in the vast majority of instances will have no impact on users' ability to access or leverage functionality in Fortify on Demand.

The maintenance window for each data center is set using the following time zones:

Data Center	Maintenance Time Zone
AMS	US Eastern Time
EMEA	Greenwich Mean Time
АРАС	Australian Eastern Time

For additional details about scheduled maintenance in other environments, contact support.

Software Updates

Fortify on Demand determines whether and when to develop, release, and apply software upgrades to the Fortify on Demand platform and/or supporting components. Major releases are typically made available on a quarterly basis, with minor releases and patches made available on an as-needed basis. Unless Fortify on Demand anticipates a service interruption due to a software upgrade, Fortify on

Demand may implement a SaaS upgrade at any time without notice to the customer. Fortify on Demand aims to use the monthly scheduled maintenance window to apply major software updates.

Security content updates to expand and improve Fortify on Demand's ability to identify vulnerabilities are a key component of the Fortify on Demand service. Security content updates are developed by the Fortify Software Security Research (SSR) team and are typically released at the end of each calendar quarter. Fortify on Demand typically deploys updated security content within several weeks of public availability. Security content updates may be deployed outside of the quarterly updates in response to significant new threats or zero-day vulnerabilities. Fortify recommends Fortify users to stay up-to-date with the latest security intelligence by following the OpenText Security Research blog at https://community.microfocus.com/cyberres/b/off-by-on-software-security-blog.

Data Retention Policy

Fortify on Demand has implemented the following data retention policy for customers as of the v18.4 release. Fortify on Demand encourages customers to review and download any files outside the data retention windows that they wish to retain.

Resource	File Type	Retention Period
Data exports (Application and Release Issues pages)	.CSV	7 days
Source code	.zip	15 days
Mobile application binaries	.ipa, .apk	30 days
Notifications	-	3 months
Data exports (global Reports page)	.CSV	3 months
Event log	.CSV	13 months
User-generated reports	.pdf, .html	2 years
Fortify scan result files	.fpr	2 years
Software bill of materials (SBOM)	.json	2 years
Site trees	.CSV	2 years
Application data	-	Customer controlled*
Release data	-	Customer controlled*
Issue data	-	Customer controlled*
User data	-	Customer controlled*

*The customer is responsible for creation and deletion of the specified data as long as the customer maintains an active status with Fortify on Demand. The customer can delete an application, release, or user at any time. Issue data associated with an application or release is also deleted. Upon termination of the Fortify on Demand service, the termination data retrieval period is 30 days.

For more information, please contact support.

Getting Support

Fortify on Demand offers support through self-service resources and the Fortify on Demand Help Center, staffed 24/7 by a dedicated support team of TAMs. The self-service resources include video demonstrations, a knowledge base, and product documentation. If you did not find what you were looking for, start a live chat with support or submit a support ticket in the Help Center. You can call support at 800.893.8141 or 650.800.3233 if internet access is unavailable.

This section contains the following topics:

Accessing Support Resources

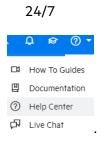
Support resources are available through the portal. The portal contains direct links to how-to videos, online help, live chat, and the Help Center. The Help Center is Fortify on Demand's support ticket system. It also hosts PDF versions of the User Guide and Release Notes and the knowledge base.

Note: You can directly log in to the Help Center through the relevant URL using your Fortify on Demand credentials:

- AMS: https://helpcenter.ams.fortify.com
- EMEA: https://helpcenter.emea.fortify.com
- APAC: https://helpcenter.apac.fortify.com
- SGP: https://fodsgp.zendesk.com/

To access support resources:

- 1. Click the help menu and select one of the following:
 - **How To Guides** opens Fortify on Demand how-to video guides, part of the Fortify Digital Learning offerings.
 - **Documentation** opens the online help
 - Help Center -opens the Help Center
 - Live Chat opens the Live Chat window where you can chat with Fortify on Demand support

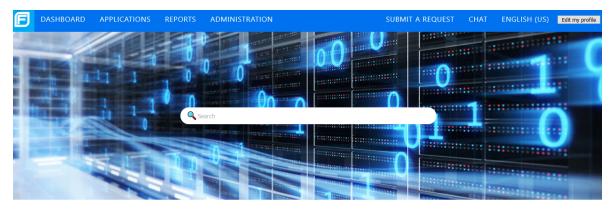


Submitting a Help Center Ticket

Submit a support ticket in the Help Center.

To submit a Help Center ticket:

 Click the help menu and select Help Center. The Help Center opens in a new window.



Getting Started	Scanning	Reviewing Results		
Plug-Ins and Integrations	Portal Usage and Features	What's New		

2. Click **Submit a Ticket**.

The **Submit A Request** form appears.

- 3. Select the ticket type from the drop-down list:
 - Create Ticket get help with a general product question or a tenant-specific issue
 - FoD Defect Submission report a Fortify on Demand bug or issue
 - FoD Enhancement Submission request an enhancement
- 4. Complete the fields displayed for the selected ticket type. Provide as many details as possible.
- 5. Click **Submit**.

A message at the top of the page indicates that your Help Center ticket was submitted.

Tracking your Help Center Tickets

You can track support tickets submitted for your tenant in the Help Center. You can only view tickets that you have submitted, are assigned to, and are copied on (if you are on an application's notification list you are automatically added to tickets linked with the application).

To track your Help Center tickets:

1. Click the help menu and select **Help Center**.

You are redirected to the Help Center.

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2. Click View Tickets.

Your tickets are displayed. Tickets have one of the following statuses:

- Open Your request has been received and assigned to support who is working to resolve it.
- Awaiting your reply The assigned support has a follow-up question for you. Tickets that are set to Pending typically remain that way until you respond and provide the information support needs to continue resolving the issue.
- **Solved** Support has resolved the issue. Solved tickets are closed automatically seven days after they have been set to Solved. Until a ticket is closed, you can reopen the ticket.
- **Closed** The ticket is complete and can't be reopened. If you need additional support for the original ticket, create a follow-up request.
- 3. To limit the number of tickets you view, filter your list with the **Status** filters:
 - **Any** Show all tickets.
 - **Open** Show tickets that the Fortify on Demand team is still working on.
 - Awaiting your reply- Show tickets that require action from your organization.
 - **Solved** Show tickets that have been resolved.

Send Documentation Feedback

If you have comments about this document, you can contact the documentation team by email.

Note: If you are experiencing a technical issue with our product, do not email the documentation team. Instead, contact Customer Support at https://www.microfocus.com/support so they can assist you.

If an email client is configured on this computer, click the link above to contact the documentation team and an email window opens with the following information in the subject line:

Feedback on User Guide (Fortify on Demand 24.1)

Just add your feedback to the email and click send.

If no email client is available, copy the information above to a new message in a web mail client, and send your feedback to mfi-fortifydocteam@opentext.com.

We appreciate your feedback!