

## What's New in Micro Focus Fortify Software 20.2.0

### November 2020

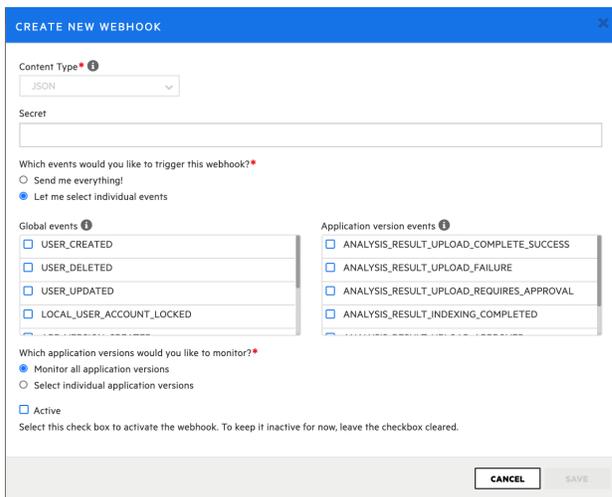
This release of Micro Focus Fortify Software includes the following new functions and features.

### Micro Focus Fortify Software Security Center

The following features have been added to Fortify Software Security Center.

#### Webhooks

The latest version of Fortify Software Security Center includes a new Webhook feature in the Administrative section. Use it to create hooks for system and application version events directly in the UI or API. When available, Webhooks can be helpful in updating external pipelines with Fortify Software Security Center data. This feature will drive our next generation of build failure workflows in the continuous integration plugins that we currently offer.

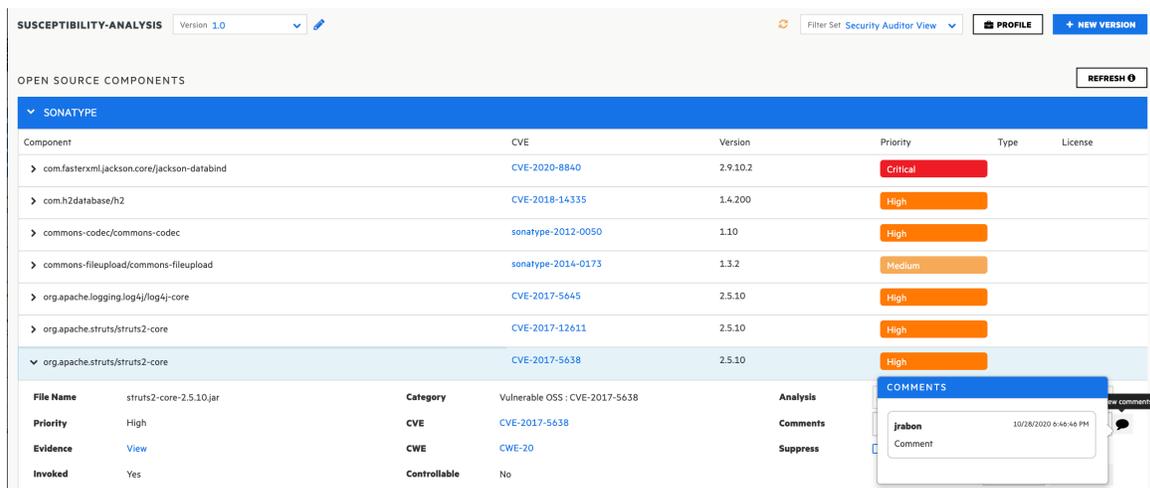


## General Performance Improvements

- Ahead-of-time compilation reduces the time needed to download the JavaScript for our user interface. Our testing indicates a 40% reduction in the overall package size.
- The Issue endpoint has been refactored for better direct API performance.

## Open Source Components View

A new Open Source Components view appears on the Open Source tab of the Issues page. This view displays Sonatype open source issues. The user can audit these issues directly in the view. This view also includes two new fields: Invoked and Controllable. These fields indicate whether the Sonatype-identified method or function(s) were called or user-controlled input reached this function/method in your custom code.



Component	CVE	Version	Priority	Type	License
> com.fasterxml.jackson.core/jackson-databind	CVE-2020-8840	2.9.10.2	Critical		
> com.h2database/h2	CVE-2018-14335	1.4.200	High		
> commons-codec/commons-codec	sonatype-2012-0050	1.10	High		
> commons-fileupload/commons-fileupload	sonatype-2014-0173	1.3.2	Medium		
> org.apache.logging.log4j/log4j-core	CVE-2017-5645	2.5.10	High		
> org.apache.struts2-core	CVE-2017-12611	2.5.10	High		
> org.apache.struts2-core	CVE-2017-5638	2.5.10	High		

<b>File Name</b>	struts2-core-2.5.10.jar	<b>Category</b>	Vulnerable OSS : CVE-2017-5638	<b>Analysis</b>	
<b>Priority</b>	High	<b>CVE</b>	CVE-2017-5638	<b>Comments</b>	
<b>Evidence</b>	<a href="#">View</a>	<b>CWE</b>	CWE-20	<b>Suppress</b>	
<b>Invoked</b>	Yes	<b>Controllable</b>	No		

## OWASP ASVS v4.0 Report

The OWASP ASVS v4.0 report provides an easy way to consolidate the list of requirements for secure software development as defined by this standard.

## ScanCentral DAST

ScanCentral DAST joins the family! The ScanCentral tab in Fortify Software Security Center now has both SAST and DAST options. WebInspect customers can now orchestrate dynamic testing and automation from within Fortify Software Security Center.

## Java 11 Support

Support for Java 11 in combination with Tomcat 9. See the *Micro Focus Software System Requirements* document for more information.

## Fortify ScanCentral SAST

### Product Name Change

With the introduction of Fortify ScanCentral DAST (for dynamic scans), Fortify ScanCentral was re-named ScanCentral SAST. For information about Fortify ScanCentral DAST, see the *Micro Focus Fortify ScanCentral DAST Configuration and Usage Guide*.

### JavaScript Packaging Improvement

There is a new parameter available in the ScanCentral SAST client to include npm dependencies, when they are not present in the current working directory. Users can add `-scan-node-modules` to ScanCentral SAST client command. ScanCentral SAST will download the node modules and include them for translation and analysis. If this flag is not present, even if the node modules are there, we exclude them by default.

### Quality Improvements

- ScanCentral SAST has improved support for multiple versions of Fortify Static Code Analyzer. When scanning resources are unavailable for a particular client version, more informative error messages will be issued.
- The auto upgrade feature now patches all connected ScanCentral SAST clients, avoiding the need to manually install the patches multiple times.
- ScanCentral SAST standalone clients receive both patch upgrades and major version upgrades (controller is upgraded).
- Embedded ScanCentral SAST clients from Fortify Static Code Analyzer will not automatically upgrade to the new version, but do receive patches.
- Custom build parameters that are required for software compilation are now included and invoked by ScanCentral SAST clients. Previously, the default build invocation parameters for supported build tools was used.

## Micro Focus Fortify Static Code Analyzer

The following features have been added to Fortify Static Code Analyzer.

### Java

- Support added for Java 14
- Native support for Lombok added. It is not necessary to use “delombok” anymore
- Support added for Kotlin interoperability

If your project contains Java code that refers to Kotlin code, include all the source directories in the translation command so that the Kotlin function calls are correctly resolved

### **.NET**

- Now uses MSBuild 16.6
- Added Generics Type support

### **Swift/Obj C**

- Added support for XCode up to version 11.7
- JavaScript

### **JavaScript**

- Support added for TypeScript 3.3- 4.0
- Support added for ECMAScript 2019 and 2020

### **Kotlin**

- Added full support for Kotlin 1.3.50
- Kotlin support is no longer a Technology Preview
- Added Kotlin Java Interoperability

If your project contains Kotlin and Java source code, you can use the Java source to resolve any Kotlin types that refer to Java files

- Added Kotlin for Android support

### **Go**

- Added support for Go Modules
- Refactoring of Go translation which allows easier translation and takes away the need to have Go installed on the translation machine

### **COBOL**

- Added support for IBM Enterprise COBOL up to version 6.1

### **Python**

- Added support for Python 3.8
- Improved imports support for Python

### **Docker**

- Added support for running Fortify Static Code Analyzer in a Docker container
- Added support for scanning Docker configuration files

### **ABAP Extractor**

- Improved performance
- Added option to block the download of SAP standard code

### **Modular Analysis (Technology Preview)**

- Updated to include control flow analysis

### **Speed Dial (Technology Preview)**

The first version of Speed Dial provides a selection of configuration files to select the breadth and depth of the desired Fortify Static Code Analyzer scan.

## Micro Focus Fortify Static Code Analyzer Tools

The following features have been added to Fortify Static Code Analyzer Tools.

### Azure DevOps

- New ScanCentral SAST Task

With the new Azure DevOps task, you can programmatically install the ScanCentral SAST client from the controller to configure and use the ScanCentral SAST client to orchestrate remote scanning from Azure DevOps. This works for both hosted and local build agents.

#### Fortify ScanCentral SAST Assessment (i)

Task version  Link settings View YAML Remove

Display name \*

Server Information ^

ScanCentral Controller URL (i)

ScanCentral client authentication token \* (i)

SSC URL (i)

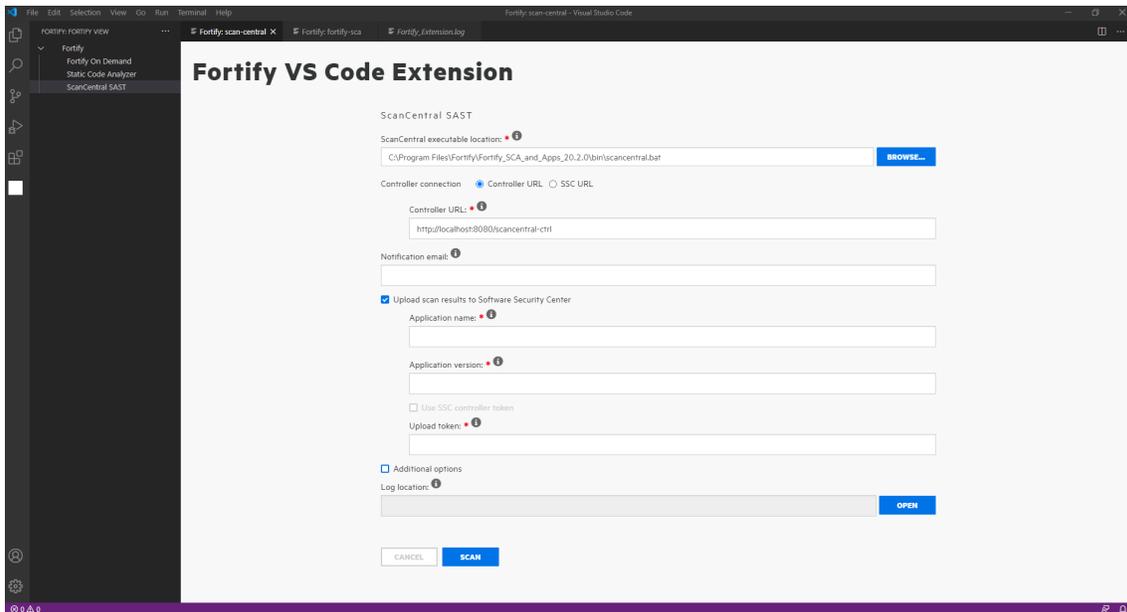
SSC continuous integration token (i)

- New ScanCentral DAST Task

In Azure DevOps, this task allows you to automate and orchestrate remote dynamic (WebInspect) scans from the ScanCentral DAST module inside of Fortify Software Security Center.

## Visual Studio Code

Fortify is happy to welcome the Fortify Visual Studio Code Extension to our IDE plugin family. In this first release, local Fortify Static Code Analyzer scans, remote scans via ScanCentral, and remote scans via Fortify on Demand are all supported.



## Token Authentication in all the Tools

Fortify has introduced token-based authentication to Fortify Static Code Analyzer from Audit Workbench and the Visual Studio, Eclipse, and IntelliJ plugins.

## Support for OWASP ASVS v4.0 Report

Support has been added for OWASP ASVS v4.0 reports.

# Micro Focus Fortify WebInspect

The following features have been added to Fortify WebInspect.

## Automatic Detection of Single-page Applications

Fortify continues to improve usability with time-saving features that eliminate manual configuration of scans. WebInspect 20.2.0 detects when applications use modern frameworks such as Angular and React and automatically adjusts its configuration to provide the best coverage.

For more information, read the Help topic and watch the "SPA Scanning Improvements" video on the [Fortify Unplugged YouTube channel](#).

### **Redundant Page Detection**

Applications with lots of redundant content, such as content management systems and catalog sites, can cause unnecessarily long-running scans. With WebInspect 20.2.0, you can use an advanced redundant page detection algorithm to reduce these scan times.

For more information, read the Help and watch “Handling Redundant Content with WebInspect 20.2” on the [Fortify Unplugged YouTube channel](#) for more information.

### **ADFS CBT Support**

Per advice from Microsoft, many organizations are implementing a channel binding token (CBT) to secure Active Directory Federation Services (ADFS) authentication. WebInspect 20.2.0 now supports this extended protection mechanism. Look at Scan Settings under Network Authentication > Method > ADFS CBT to use this new feature, and reference the Help topic for details.

### **Engine 5.1 Updates**

Fortify continues to evolve its engines to improve coverage and performance. WebInspect 20.2.0 provides a faster crawl and audit, and better application support from the web macro recorder. Finally, as a sneak peak of things to come in 2021, the Web Macro Recorder with Macro Engine 5.1 now attempts to detect and display client-side frameworks that are used in the target application. For more information, read the Help.

### **OpenSSL Technical Preview**

WebInspect 20.2.0 introduces a technical preview of our OpenSSL integration. This integration provides support for TLS 1.3, and provides an option for customers whose system administrators may be restricting the Microsoft SCHANNEL stack. The setting may be enabled in the UI at Edit > Application Settings > General.

### **ScanCentral DAST**

Fortify is excited to release a new DAST orchestration and automation platform integrated right into Software Security Center 20.2.0! For more information, watch our “Introduction to ScanCentral DAST” video on the [Fortify Unplugged YouTube channel](#).

## **Micro Focus Fortify WebInspect Enterprise**

The following features have been added to Fortify WebInspect Enterprise.

### **Automatic Detection of Single-page Applications**

Fortify continues to improve usability with time-saving features that eliminate manual configuration of scans. The WebInspect 20.2.0 sensor detects when applications use modern frameworks such as Angular and React, and automatically adjusts its configuration to provide the best coverage.

For more information, read the Help topic and watch the "SPA Scanning Improvements" video on the [Fortify Unplugged YouTube channel](#).

### **Redundant Page Detection**

Applications with lots of redundant content, such as content management systems and catalog sites, can cause unnecessarily long-running scans. With the WebInspect 20.2.0 sensor, you can use an advanced redundant page detection algorithm to reduce these scan times.

For more information, read the Help topic and watch "Handling Redundant Content with WebInspect 20.2" on the [Fortify Unplugged YouTube channel](#).

### **ADFS CBT Support**

Per advice from Microsoft, many organizations are implementing a channel binding token (CBT) to secure Active Directory Federation Services (ADFS) authentication. The WebInspect 20.2.0 sensor now supports this extended protection mechanism. For more information, read the Help topic.

## **Contact Micro Focus Fortify Customer Support**

If you have questions or comments about using this product, contact Micro Focus Fortify Customer Support using one of the following options.

### **To Manage Your Support Cases, Acquire Licenses, and Manage Your Account**

<https://www.microfocus.com/support>

## **For More Information**

For more information about Fortify software products:

<https://www.microfocus.com/solutions/application-security>

# What's New in Micro Focus Fortify Software 20.1.0

## May 2020

This release of Micro Focus Fortify Software includes the following new functions and features.

## Micro Focus Fortify Software Security Center

The following features have been added to Fortify Software Security Center.

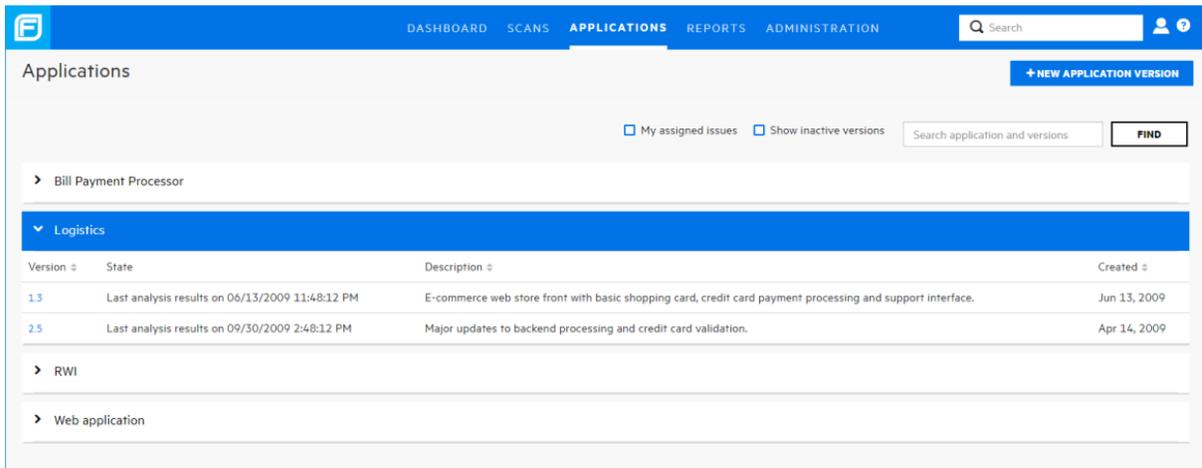
### SQL Server Change

You no longer need to download the JDBC JAR file or ensure Tomcat Server classpath includes its location when using SQL Server as your database.

### GUI Changes

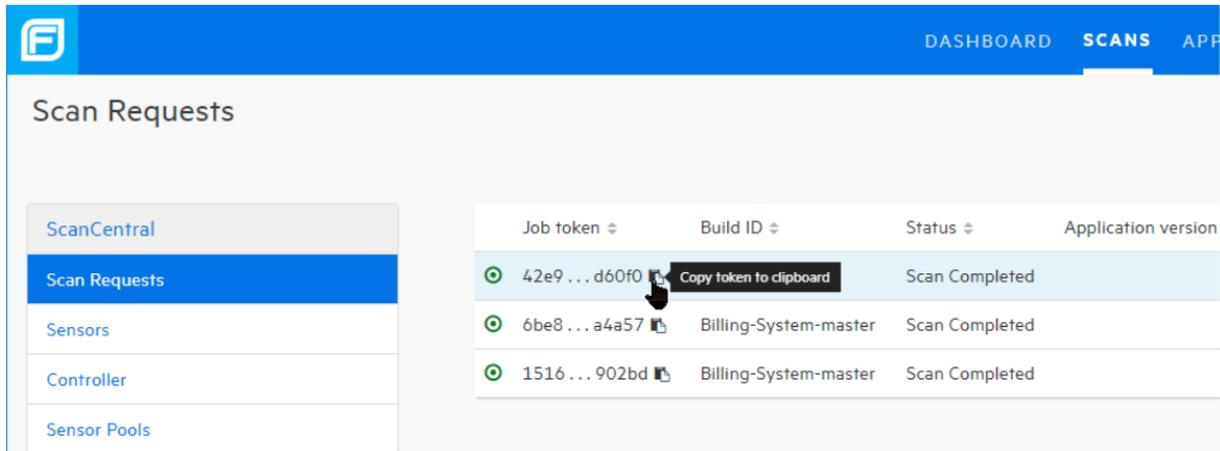
Applications View

- Now displays application versions in an expandable list beneath the application name.



Scans View

- A **Copy token to clipboard** button has been added to the Scan Requests page.
- **Hostname** and **Pool** columns have been added to the Scan Requests page.



### Sensors Page

- Column headings have been changed on the Sensors page.

### Attributes Page

- An **In Use** column has been added to the Attributes page. It lets you see what attributes and attribute values are in use by an application version.

### CAS Single Logout Support

- Fortify Software Security Center now supports single logout for Central Authorization Server.

### Modified Single Sign-On Configuration

The SSO page was redesigned to improve usability and make it clear that only one SSO solution can be configured.

### Single Sign-On Local Login Support for x509 and Kerberos/SPNEGO

There is a new SSC property, `sso.localAuthenticationEnabled`, in `app.properties`. This property enables local login with a username and password even though SSO (x509 and Kerberos/SPNEGO only) is configured and enabled.

### LDAP Users and Application Versions

Beginning with the 19.2.1 patch release, LDAP users assigned the Security Lead role (or a custom role with application creation privileges) can create application versions.

### Delete List Type Attributes and their Values

You can now delete attribute values for list-type attributes even if they are currently used by an application version. Tired of being told you can't delete an unwanted attribute because it's currently "in-use"? This feature is for you.

### General Performance Improvements

We have optimized the way we parse very large request / response fields from Fortify WebInspect.

The `issueDetails` RESTful API endpoint now sends a smaller amount of data per request

We have improved performance when leveraging authentication tokens and LDAP. This will be most noticeable when making frequent API requests.

### **Software Security Center Kubernetes Deployment**

A new container is available on Fortify Docker. It Includes detailed documentation for deploying and configuring SSC via Helm charts to a Kubernetes cluster.

### **New CWE Top 25 2019 Report**

Prioritize your security issues using the 2019 version of the CWE Top 25 2019.

### **ScanCentral: Fortify CloudScan is now Fortify ScanCentral**

Fortify CloudScan has been renamed Fortify ScanCentral.

### **ScanCentral: Automatic Client Updates**

The ScanCentral Controller now checks to determine whether an update is available. If one is, it is placed in a specific directory on the ScanCentral Controller. Client updates begin after

you next start the Controller. For more information, see "Enabling and Disabling Auto-Updates of ScanCentral Clients" in the user guide.

### **ScanCentral: Secure the Controller**

Use the new `client_auth_token` property to restrict the use of the ScanCentral Controller to authorized clients only.

### **ScanCentral: Package Scanner Tool**

The new package scanner tool generates Fortify Static Code Analyzer commands and runs them without starting the ScanCentral clients.

## **Micro Focus Fortify Static Code Analyzer**

The following features have been added to Fortify Static Code Analyzer.

### **.NET Updates**

- Support added for .NET Core 2.2, 3.0, and 3.1
- Support added for C# 8
- Support added for VB.NET 16.0 (2019)
- Support added for MSBuild 16.4
- Support added for .NET Framework version 4.8
- Support added for ASP.NET 4.8

### **macOS Update**

- Support added for macOS 10.15

### **Java Update**

- Support added for Java 13

#### **Swift and Objective-C Updates**

- Support added for Xcode 11, 11.1, 11.2.1, 11.3, 11.3.1
- Improved translator

#### **Compiler Updates**

- Support added for cl 2019
- Support added for Apple LLVM (Clang) 11.0.0
- Support added for Swiftc 5.1, 5.1.2, 5.1.3

#### **Kotlin (Technical Preview)**

- Support added for Kotlin 1.3.50

**Note:** Fortify Static Code Analyzer support for scanning Kotlin is available as a technical preview. However, security content for this feature will be released toward the end of June 2020. You can find vulnerabilities in your Kotlin applications only after the security content is available.

#### **Go Updates**

- Support added for Go language 1.13.x (up to 1.13.3)

#### **Performance Improvements**

We have substantially improved dynamic languages analysis performance by making changes to:

- The Higher Order Analysis (HOA) algorithm
- Taint analysis of Python's static initializers
- Type inference scalability on multiple cores

These changes affect all languages that leverage higher order analysis:

- Python
- TypeScript
- JavaScript
- Ruby
- Swift

#### **FPR File Enhancements**

- Translation options are now persisted in FPR files
- Filter files are persisted in FPR files

## **Micro Focus Fortify Static Code Analyzer Tools**

The following features have been added to Fortify Static Code Analyzer Tools.

#### **Fortify Security Assistant**

- Support for Visual Studio 2019

### **Additional Premium Reports**

The following reports have been added to the Static Code Analyzer Tools:

- CWE Top 25 2019

## Micro Focus Fortify WebInspect

The following features have been added to Fortify WebInspect.

### **Engine Updates - Big Improvements on Modern Apps**

We've updated our engines to keep pace with our customer's evolving applications! The engine update brings dramatic improvements to WebInspect's ability to scan applications built with modern JavaScript frameworks.

### **Single-Page Application (SPA) Coverage Visualization**

The new engine provides an improved visualization of Single-Page Applications.

For more information, watch the "Scanning Single-Page Apps" video on the [Fortify Unplugged YouTube channel](#).

### **Macro Recorder Updates**

The Macro Recorder is now on by default across all areas of WebInspect. The updated recorder delivers an improved experience when recording both login and workflow macros.

For more information, watch the "Recording Macros in Macro Recorder 5.0" video on the [Fortify Unplugged YouTube channel](#).

### **Upgraded Rescan Technology**

Rescan capabilities deliver a dramatically faster, more flexible, and more reliable experience. Our new rescan technology is better at replaying complicated attack sequences and is available via the UI, API, and CLI.

For more information, watch the "WebInspect 20.1.0 Rescan Improvements" video on the [Fortify Unplugged YouTube channel](#).

### **Authenticated API Scanning with Postman**

We've continued to simplify API scanning and automation by adding the ability to handle authenticated API scanning to our Postman integration.

For more information, watch the "Authenticated API Scanning with Postman" video on the [Fortify Unplugged YouTube channel](#).

### **Selenium WebDriver Login Macros**

Building on the Selenium WebDriver support from our last release, WebInspect now supports using a Selenium WebDriver script as a login macro.

For more information, read the "Selenium Login Macro" topic in the Help.

## Micro Focus Fortify WebInspect Enterprise

The following features have been added to Fortify WebInspect Enterprise.

### **Engine Updates - Big Improvements on Modern Apps**

We've updated our engines to keep pace with our customer's evolving applications. The engine update brings dramatic improvements to WebInspect Enterprise's ability to scan applications built with modern JavaScript frameworks.

### **Macro Recorder Updates**

The Macro Recorder is now available within WebInspect Enterprise and as a free-standing application. The free-standing application, Macro Recorder 5.0, is available in the Fortify Marketplace. Continuing with our goal of supporting modern applications, our updated recorder delivers an improved experience when recording both login and workflow macros.

For more information, watch the "Recording Macros in Macro Recorder 5.0" video on the [Fortify Unplugged Youtube channel](#).

### **Silverlight Removal Complete**

The WebInspect Enterprise Desktop client now automatically opens in Microsoft Internet Explorer as well as Microsoft Edge.

## Contact Micro Focus Fortify Customer Support

If you have questions or comments about using this product, contact Micro Focus Fortify Customer Support using one of the following options.

### **To Manage Your Support Cases, Acquire Licenses, and Manage Your Account**

<https://www.microfocus.com/support>

## For More Information

For more information about Fortify software products:  
<https://www.microfocus.com/solutions/application-security>

# What's New in Micro Focus Fortify Software 19.2.0

## November 2019

This release of Micro Focus Fortify Software includes the following new functions and features.

### Micro Focus Fortify Software Security Center

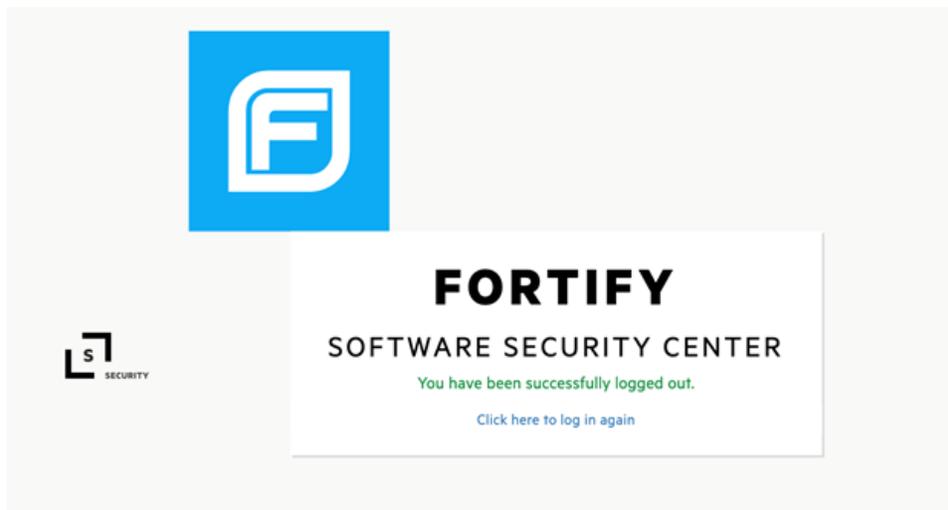
The following features have been added to Fortify Software Security Center.

#### Scan Issue View Now Includes a Comment Column

Analysis Type ⇅	Criticality ^	Tagged ⇅	  
SCA	Critical		
SCA	Critical		
SCA	Critical		
SCA	Critical		
SCA	Critical		

## Session Logout Screens

A newly-integrated logout screen appears when users log out of Fortify Software Security Center. This also includes support for use with Fortify Software Security Center's SSO support.



- In this release there are new session logout screens. If you logged in as a local user, and you log out (or you are logged out because your session timed out), the session logout screen displays a link that you can use to return to the login screen.
- If you logged in using a SAML-based single sign-on account, which supports single sign-off, and you log off, the session logoff page gives you the option of logging out as a local user, or logging out from your SSO SAML account. For more detail, see "About Session Logout" in the user guide.
- If you logged in using a SAML-based single sign-on account and your session times out due to inactivity, a session logout dialog box gives you the options of signing out locally, signing out of your SAML account, or staying logged in.

## Removal of Runtime Calls, Methods, and Parameters

Runtime calls, methods, and parameters were removed from Web Service endpoints, APIs, and command-line tools.

## New Requirement for Audit Assistant Custom Tag Mapping

When you map Audit Assistant analysis tag values to custom tag values, you must make sure that you assign at least one tag value to both the Non-Issue and True Issue categories. For details, see "Mapping Audit Assistant Analysis Tag Values to Software Security Center Custom Tag Values" in the user guide.

### **Exporting Data for All Application Versions**

- You can now export data for all application versions to a CSV file. For details, see "Exporting Data to Comma-Separated Values Files" in the user guide.

### **Additional File Formats Supported for Attachment to Issues**

- Now, in addition to files in JPG, JPEG, BMP, PNG, and GIF formats, you can attach files in DOC, DOCX, PPT, and PPTX formats.

### **PCI SSF Report & Issue Template**

The PCI SSF compliance mappings supersede the old PCI DSS requirements. Fortify makes both types of reports and Issue Templates available for customers still leveraging DSS requirements.

### **New PCI Basic Seed Bundle**

A new seed bundle is available for seeding the Fortify Software Security Center database. The optional PCI Basic seed bundle (Fortify\_PCI\_SSF\_Basic\_Seed\_Bundle-2019\_Q3.zip) adds a Payment Card Industry (PCI) Data Security Standard (DSS) process template and its associated report to the default set of issue templates and reports. PCI DSS will remain open for assessment of previously-started, and newly-started assessments initiated before June 2021, until October 2022. After October 2022, the new PCI Software Security Framework (SSF) will be the set of standards for evaluation.

This is in addition to the Fortify\_PCI\_Basic\_Seed\_Bundle-2019\_Q3.zip file, which is still available. For more information about seed bundles, see "Unpacking and Deploying Fortify Software Security Center Software" in the user guide.

## **Micro Focus Fortify Static Code Analyzer**

The following features have been added to Fortify Static Code Analyzer.

### **Modular Analysis**

Modular analysis allows you to pre-scan libraries and sub-libraries separately from your core project. You can then include these pre-scanned libraries when you scan the core project. Fortify Static Code Analyzer can follow dataflow through the libraries without including the source code of the libraries in the core application scan or requiring rules for these libraries. This results in a high quality scan without having to scan the dependencies each time you scan the core application.

### **Go Language**

Added support for translating Go language version 1.12 source code on Windows and Linux platforms.

### **React**

Added support for React 16.5 JavaScript library.

## **Java**

Added support for Java 12.

## **Performance improvements**

Fortify Static Code Analyzer now uses available cores in a more scalable fashion. Increasing the number of available cores may improve scan speeds. Similarly, increasing available memory may also improve scan speeds.

# **Micro Focus Fortify Static Code Analyzer Tools**

The following features have been added to Fortify Static Code Analyzer Tools.

## **Fortify CloudScan .NET packaging support**

Fortify CloudScan now supports packaging and scanning .NET solutions remotely (translation and analysis phases). The Fortify CloudScan client intelligently packages .NET solutions for remote translation and scanning outside of the build environment.

Other directly-parsed languages have been added to CloudScan.

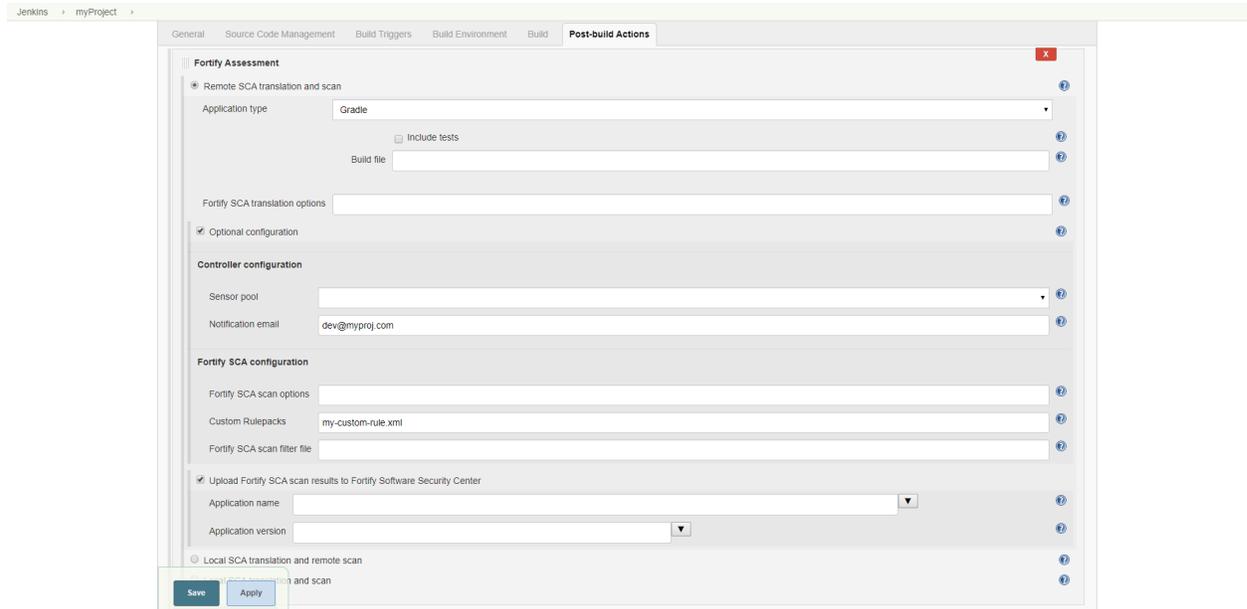
The following languages are supported in Fortify Static Code Analyzer, but are not available for remote translation: the C family of languages (C/C++/Objective-C/Swift), COBOL, and ActionScript.

## **Fortify SCA Visual Studio 2019 Extension w/ built-in CloudScan support**

- Added Fortify extension for Visual Studio 2019
- Includes Fortify CloudScan support

## Fortify Jenkins plugin with w/ built-in CloudScan and 19.2.0 Fortify Static Code Analyzer support

This new plugin includes native Fortify CloudScan support and new scan options that support Fortify Static Code Analyzer 19.2.0. Available for download: <https://plugins.jenkins.io/fortify>.



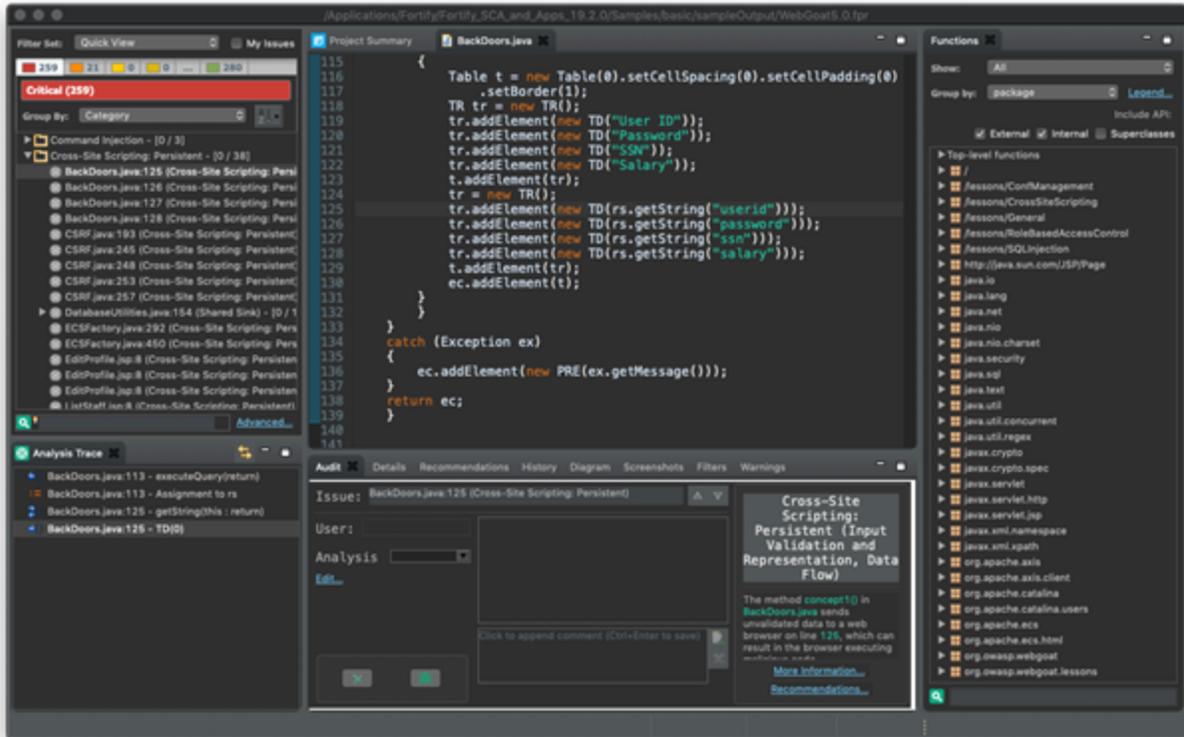
The screenshot shows the Jenkins configuration page for the Fortify Assessment plugin. The page is titled "Fortify Assessment" and is located under the "Post-build Actions" tab. The configuration is organized into several sections:

- Remote SCA translation and scan:** Includes a dropdown for "Application type" (set to "Gradle"), a checkbox for "Include tests", and a text field for "Build file".
- Fortify SCA translation options:** A text field for specifying translation options.
- Optional configuration:** A checked checkbox.
- Controller configuration:** Includes a dropdown for "Sensor pool" and a text field for "Notification email" (set to "dev@myproj.com").
- Fortify SCA configuration:** Includes text fields for "Fortify SCA scan options", "Custom Rulepacks" (set to "my-custom-rule.xml"), and "Fortify SCA scan filter file".
- Upload Fortify SCA scan results to Fortify Software Security Center:** A checked checkbox with dropdowns for "Application name" and "Application version".
- Local SCA translation and remote scan:** A radio button option.

At the bottom of the configuration, there are "Save" and "Apply" buttons.

## Audit Workbench

- Dark Theme  
To enable the dark theme, navigate to: *Options -> Appearance -> Dark Theme* in Fortify Audit Workbench.



- Syntax highlighting support for TypeScript, YAML, Less and JSON.

## Micro Focus Fortify WebInspect

The following features have been added to Fortify WebInspect.

### Simplified API Scanning

Scanning APIs, which are documented via the OpenAPI (Swagger) API description format, have been simplified. You can leverage this feature from the API Scan option of the Basic Scan Wizard or from the WebInspect API or CLI.

### Advanced API Scanning – Postman

Run functioning Postman collections for advanced API scanning scenarios where unique workflows, complicated authentication, or specific parameter values are required.

### Response State Patterns

Handles complex scenarios where an application requires passing data from a response into a subsequent request. You can build response state rules from the *Scan Settings > HTTP Parsing* option.

### **Macro Auto-gen Improvements**

The underlying macro auto-gen engine has been upgraded and signatures have been improved, resulting in improved accuracy and performance of our macro auto generation technology.

### **Macro Validation Improvements**

The underlying macro validation engine has been improved, resulting in greater accuracy in validating macros.

### **Usability Improvements**

- Improved support for high resolution monitors.
- Some scan settings have been simplified to reduce confusion.

### **Common Access Card (CAC) Improvements**

Many highly restricted applications leverage common access cards as a part of their two-factor authentication protocol. CAC coverage provides better support when scanning applications in these sensitive environments.

### **Selenium Webdriver - Tech Preview**

A selenium WebDriver enables tighter integration of Fortify WebInspect into your pipeline in this Technical Preview. This integration allows Fortify WebInspect to automatically run selenium binaries, detect the tested surface area of the application, and then test for vulnerabilities.

### **Updated Vuln Retest - Tech Preview**

Improvements to the accuracy of our vulnerability retest engines have been made. The Technical Preview of these updated capabilities are available via the API and CLI. Updated endpoints allow for testing all detected vulnerabilities, vulnerabilities by severity, or even individual vulnerabilities by unique identifier.

## Micro Focus Fortify WebInspect Enterprise

The following features have been added to Fortify WebInspect Enterprise.

### **Silverlight Dependency Removal**

To provide more flexibility, WebInspect Enterprise no longer requires Internet Explorer with Silverlight for proper operation. Customers using modern browsers like Chrome and Firefox will be prompted to install the WIE Desktop Client which will allow them configure and visualize scans.

### **Free-Standing Macro Recorder with Macro Engine 5.0**

While we work to complete integration of the updated Web Macro Recorder with Macro Engine 5.0 throughout the product, we want to provide you with a free-standing version of the new tool. You can download the free-standing Web Macro Recorder tool from the Software Support Online portal. The tool provides both WebInspect Enterprise and WebInspect customers with an easy way to record macros without changing default settings.

# What's New in Micro Focus Fortify Software 19.1.0

## May - June 2019

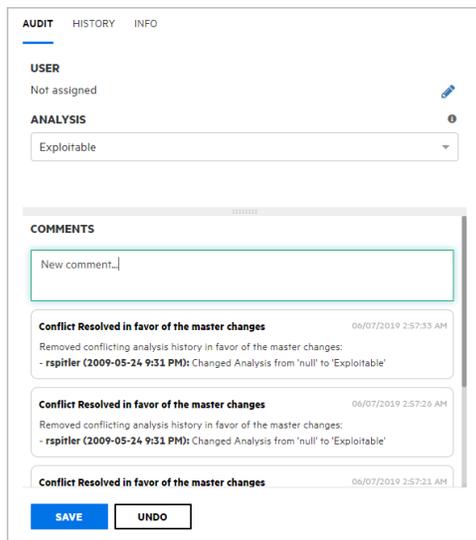
This release of Micro Focus Fortify Software includes the following new functions and features.

## Micro Focus Fortify Software Security Center

The following features have been added to Fortify Software Security Center.

### UI / Usability Updates

- The COMMENTS section has been moved. Previously, you posted and viewed comments from the COMMENTS & HISTORY tab. Now you can post and view comments on the AUDIT tab in the right panel of the issue details section.



- Audit Page: Rulepack content is now divided into separate sections. Details / Recommendations / Metadata / References / etc are now found in the Info tab.
- The new version selector has a three-column layout for selecting application versions. It was designed to accommodate thousands of application versions.

## Micro Focus Fortify Static Code Analyzer

The following features have been added to Fortify Static Code Analyzer.

### **TypeScript**

TypeScript language support now includes:

- Higher Order Analysis (HOA) performance improvements
- Support for TypeScript 3.0, 3.1 and 3.2

### **Python**

Python language support now includes:

- Support for Python 3.7
- Support for Django 2.x
- Performance improvements

### **Gradle**

Gradle support now includes Gradle 4.x.

### **Angular**

Angular support now includes Angular 7.

### **Java**

Java support now includes Java 10 and Java 11.

### **ECMAScript**

Fortify Static Code Analyzer now supports ECMAScript 2018.

### **Higher Order Analyzer**

Higher Order Analyzer is on by default for JavaScript and TypeScript applications. When Higher Order Analyzer is enabled, Fortify Static Code Analyzer is able to better track dataflow issues and uncover more vulnerabilities.

## Micro Focus Fortify CloudScan

Fortify CloudScan now ships with a utility to package source code, dependencies, and Fortify Static Code Analyzer translation instructions. You no longer have to install Fortify Static Code Analyzer locally or on the build server. The packaging utility allows you to centralize your Fortify infrastructure and create a consistent approach across languages.

- You no longer have to install and run Fortify Static Code Analyzer on the build server for the following languages: Java, JavaScript, Ruby, Python, and PHP.
- The packaging utility packages everything necessary, including dependencies, and sends the package directly to the CloudScan CLI. The CloudScan CLI then sends it on to the sensors, which perform both translation and scanning phases of the analysis.
- The packaging utility intelligently sets what were previously manual translation options. Simply provide the location of the build file (build.gradle / pom.xml). No other configuration options are required for build integration.
- This new Fortify CloudScan utility supports auto packaging using the Gradle or Maven build tools.

## Micro Focus Fortify Static Code Analyzer Tools

The following features have been added to Fortify Static Code Analyzer Tools.

### **Fortify Jenkins Plugin**

- Post-build action analyzes the source with Fortify Static Code Analyzer, updates security content, uploads analysis results to Fortify Software Security Center, and fails the build based on uploaded results processed by Fortify Software Security Center.
- Provides native pipeline support for source code analysis with Fortify Static Code Analyzer, security content update, and uploads to Fortify Software Security Center.
- Snippet generator makes it easy to generate the pipeline code necessary to add a Fortify task to a pipeline script.
- Displays Fortify security analysis results for each job that includes a history trend and the latest issues from Fortify Software Security Center. Navigates to individual issues on Fortify Software Security Center for detailed analysis.

# Micro Focus Fortify WebInspect

The following features have been added to Fortify WebInspect.

## **Simplified API Scanning**

We have dramatically simplified scanning APIs that are documented using the OpenAPI (Swagger) API description format. You can use the API Scan option in the Basic Scan Wizard or leverage this feature from the WebInspect API or CLI.

## **Advanced API Scanning – Postman**

Fortify WebInspect can now directly run your functioning Postman collections for more advanced API scanning scenarios where unique workflows, complicated authentication, or specific parameter values are required.

## **Response State Patterns**

Fortify WebInspect can now handle complex scenarios where an application requires passing data from a response into a subsequent request. To build response state rules, go to **Scan Settings > HTTP Parsing**.

## **Macro Auto-gen Improvements**

We've upgraded the underlying macro auto-gen engine and we've improved our signatures. You should see improved accuracy and performance of our macro auto generation technology.

## **Macro Validation Improvements**

The underlying engine for our macro validation feature has been improved. You should note improved accuracy in validating macros.

## **Usability Improvements**

We've addressed some usability concerns on two fronts. First, we've improved WebInspect's support for high resolution monitors. Second, we've begun simplifying some of our scan settings to avoid customer confusion.

## **Common Access Card (CAC) Improvements**

Many highly-restricted applications leverage common access cards as a part of their two-factor authentication protocol. We've broadened our CAC coverage to better support our customers who are scanning applications in these sensitive environments.

## **Verify Site Improvements**

We've improved the Verify Site API endpoint to support more advanced detection of application complexity, and to provide a measurement of application response time that can be used to predict potential for long running scans.

## **Free-Standing Macro Recorder with Macro Engine 5.0**

While we work to complete integration of the updated Web Macro Recorder with Macro Engine 5.0 throughout the product, we want to provide you with a free-standing version of the new tool. You can download the free-standing Web Macro Recorder tool from the Software Support Online portal. The tool provides both WebInspect Enterprise and WebInspect customers with an easy way to record macros without changing default settings.

#### **Selenium Webdriver - Tech Preview**

To allow customers to more tightly integrate WebInspect into their pipelines, we've built a Selenium WebDriver integration. This integration allows WebInspect to automatically run Selenium binaries, detect the tested surface area of the application, and then test for vulnerabilities.

#### **Updated Vuln Retest - Tech Preview**

We're improving the accuracy of our vulnerability retest engines. In 19.2.0 we're releasing a technical preview of these updated capabilities which are available via the API and CLI. The updated endpoints allow for testing all detected vulnerabilities, vulnerabilities by severity, or even individual vulnerabilities by unique identifier.

## Micro Focus Fortify WebInspect Enterprise

The following feature has been added to Fortify WebInspect Enterprise.

### **New API Endpoints**

New SmartUpdate endpoints provide a way of:

- Getting a list of all SmartUpdate occurrences
- Getting details or status of a specific SmartUpdate
- Starting the SmartUpdate process to download the latest SecureBase changes and sensor versions