Fortify Integration & User Experience
• Integration with both Fortify on Demand and Software Security Center (v18.2).
• “Get Training” provides Fortify User with real-time interactive training in Secure Code Warrior.
• Mappings implemented to direct User to specific content.
For Prospects & SCW Customers Not Logged In

- User is Anonymous by default
- ULR connects directly to vulnerability subcategory & language / framework

For SCW Customers

- User known is logged into SCW and session is still valid (in another tab for example)
- When User clicks on “Get Training” they will connect directly in their SCW account and all training and metrics are saved.
- User “identified” & asked to Log In
The URL will be pre-configured however each customer installation will need to click the ‘Enable Training’ checkbox in order to receive SCW Training.
Accessing SCW from FoD

• Drill down into Applications -> Releases and choose an issue to view.
• Choose the “Recommendations” tab.
• From the Recommendations tab, scroll down to “Interactive Training” and click the “Launch Training” link.
In the Audit view of a Security issue in SSC, the “Get Training” link will open training module on the issue if it is mapped from Fortify to SCW.
FOD & SSC Users who are also SCW Users can now Login first to complete exercise and add to their SCW Training Statistics vs. be anonymous.
Cross Site Scripting / Java

Cross Site Scripting - Reflective / Java
• https://integration-api.securecodewarrior.com/partner?id=Microfocus&mappingKey=Cross-SiteScripting:Reflected:java&redirect=true

Injection - SQL / Java
• https://integration-api.securecodewarrior.com/partner?id=Microfocus&mappingKey=SQLInjection:Persistence:java&redirect=true

Cross Site Scripting - DOM-based / Javascript
• https://integration-api.securecodewarrior.com/partner?id=Microfocus&mappingKey=Cross-SiteScripting:DOM:javascript&redirect=true

Cross Site Scripting - Persistent / JavaScript
• https://integration-api.securecodewarrior.com/partner?id=Microfocus&mappingKey=Cross-SiteScripting:Persistent:javascript&redirect=true
FOD & SSC Users have immediate access to targeted on-demand training in Secure Code Warrior as a value added freemium offering.
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If User chooses to change the pre-set Language / Framework, the selections will vary according to the Vulnerability Category selected.

- Languages / Frameworks which align to specific vulnerabilities are context sensitive.
Stage 1 - “Locate the Vulnerability”

- 1st of a 2-stage Challenge

- Code blocks are pre-marked for you to choose

- Pay attention to specific Category and Subcategory

- And # of vulnerable blocks to choose (or have been chosen)

Real-world language/framework specific code snippets to help the User learn how to Locate, Identify & Fix the Vulnerability.
Stage 1 - “Locate the Vulnerability”

Expand Screen to more easily view full code set.
Can You Locate the Vulnerability?

Challenges the User to THINK...Can they can recognize the Vulnerability?

Applied Learning = Learn by doing!
When First You Don’t Succeed...Retry and Learn

• Incorrect selection

“Retry” or “Reveal Answer”

Immediate feedback with chance to “Retry”.

“Retry” or “Reveal Answer”
Access Hints as Help to Learn More

- Overview & deeper dive explanation on “How to find” this vulnerability
- 3-5 min micro learning asset from SCW Learning Library (video or presentation)
- Creates awareness & understanding
- Download additional info (PPT, Google Slides or PDF)

Hints designed to build context-based knowledge about the Vulnerability to apply as the User works to complete the Challenge.
More Hints to Continue to Learn

• Deeper dive explanation on “How to find” this vulnerability

Hints designed to build context-based knowledge about the Vulnerability to apply as the User works to complete the Challenge.

“Close” to return to challenge Or get another Hint
Try Again to Locate the Vulnerability

Pushes to User’s thinking to retry and learn from trial and error.
Success...Vulnerability Located!

Feedback reinforces learning experience whether a User *may have guessed* or used all the hints. Learn at every step.
Stage 2 - “Identify the Solution” to Fix the Code

• Advance to second stage to “Identify the Solution”

Pushing User thinking to the next level by now asking them to identify the optimal most secure fix for this vulnerability.
Do You Know the Most Secure Optimal Fix?

- Review 4 different potential solutions and test or build your skill to know which is the optimal most secure fix for the vulnerability.

Review solutions & compare

- Differences between selections

Continues to challenge the User to see if they know how best to fix the code …don’t be fooled by different techniques, there is only 1 right solution.
Choose the View Most Familiar to You

User settings allow users to complete the Challenge in the view most familiar to them. Building muscle memory on the journey to become a secure coder.

- Differences between selections
- Compare solutions against each other
- Click “Accept” once selection is made
- Inline diff view
- Click "Accept" once selection is made
- Inline diff view
Immediate Response with Feedback to Learn From

- Incorrect solution
- Feedback on “why” solution is not correct
- Including incorrect technique/st

Click “Retry” or Reveal Answer

Feedback reinforces learning experience whether a User *may have guessed* or used all the hints. Learn at every step.
Access Hints for Help to Learn More

- An incorrect solution is removed and you learn why that was the wrong technique or approach.

Hints designed to build context-based knowledge about the Vulnerability to apply as the User works to complete the Challenge.
Solution Correct & Challenge Complete!

- Challenge Complete
- Correct Solution with Feedback on why that is the optimal, most secure solution
- Points breakdown

Feedback reinforces learning experience. Breakdown of points to highlight where User needed help or was incorrect.

“Continue” to move forward
Your Statistics for Completing the Challenge

- My metrics for completing this challenge
- As an Anonymous User results are not saved

“Try another category” randomly assigned

Advanced on the Leaderboard

Sign up for a Free Trial

Metric view of User’s “My Statistics” highlighting User’s results. As an Anonymous User results are not saved.
Engage & Sign Up for a Trial

For Tier 1 / 2 Accounts, we should get our sales teams aligned to provide a proper company trial experience.
FOD & SSC Users have immediate access to targeted on-demand training in Secure Code Warrior as a value added freemium offering.
“Feed Your Brain” in the Learning Resources Library

Full access to all videos and presentations, with links to additional details to help build Awareness and Understanding of the fundamentals of Application Security.
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