

# WebApps RPT-XSS Quick Guide



Thank you for using Core Impact™! This Quick Guide will step you through a basic WebApps Rapid Penetration Test (RPT) with focus on Cross-site Scripting (XSS) vulnerabilities. To perform these steps, launch Core Impact and open a valid workspace.

Before continuing, make sure you are authorized to perform penetration tests on your perspective target applications and systems.

This quick guide is meant to serve as an introduction to the penetration testing capabilities of Core Impact. There are many variations of Core Impact's functionality that are not represented here. For more details, use the Help link within Core Impact.

## WebApps RPT-XSS Summary

The WebApps RPT for XSS vulnerabilities is comprised of four steps which, when run in sequence, provide a comprehensive test of your web applications.

WebApps RPTs organize your web applications and test settings into Scenarios. You can set up multiple Scenarios to test a single web application in different ways and easily track your results.

**WebApps Information Gathering** - This step scans the location of a Web Application and attempts to identify web pages that may be vulnerable to malicious attacks. If vulnerable pages are located, they are shown on the Web tab of Core Impact's Entity Database.

**WebApps Attack and Penetration** - Using the details from the previous step, Core Impact attempts to exploit known vulnerabilities on the hosts with the goal of launching an Agent on each one. Core Impact's Agents can then serve as gateways to compromised hosts, allowing you to further penetrate the machine itself or its surrounding network.

**WebApps Browser Attack and Penetration** - This step allows you to exploit XSS vulnerabilities by emailing users a link that will perform a XSS attack.

**WebApps Report Generation** - As with all Core Impact RPTs, the Report Generation step provides detailed reports on information gathered during the previous steps. These reports are essential in compiling vulnerability data and developing remediation strategies.

## Run a WebApps RPT for Cross-site Scripting

**TIP:**

Before beginning the test, you will need the address of the web application that you wish to test, and the connection info (address and port) for a valid SMTP server.

## WebApps Information Gathering

1. Click the **Web Applications RPT** button  .
2. Click the **Web Apps Information Gathering** step.  
This will launch the Information Gathering wizard.
3. Click the **Next** button to get started.
4. Enter the name of your test **Scenario**.  
You can alternatively select an existing Scenario.
5. Select **Crawl a known web application**.  
Core Impact can also evaluate known hosts that might be running HTTP servers.
6. Use **Automatic Web Crawling** so the RPT scans the web app pages for you and enter the **URL** for your target Web Application.  
Interactive Web Crawling allows you to navigate within your web application while Core Impact records each page that you visit.
7. Define any **Custom HTTP headers** for web requests and click **Next**.
8. On the **Automatic Crawling Options** page, use the default settings and click **Next**.  
On this step, you can specify:
  - The browser the RPT should impersonate when the test runs
  - The Max. number of pages the crawler should process
  - The Max. depth level to crawl
  - If the test can crawl to other domains
  - If the test should try to detect web server and application framework details
9. On the **Automatic Crawling Options (contd)** page, use the default settings and click **Next**.  
On this step, you can specify:
  - If the test should evaluate JavaScript for vulnerabilities
  - If the test should try to detect a robots.txt file and follow the links it contains
  - If the test should try to submit any forms it finds within the web application
  - A custom module you create to parse dynamic links within the web application
  - Whether Session management is to be used to log in to the web application
10. On the **Web Services Discovery Options** page, use the default settings and click **Finish**.

Core Impact will also attempt to identify any SOAP-based web services that may be running within the target Web Application.

The Information Gathering step will launch the necessary modules - you will see these modules and can monitor their progress in the Executed Modules pane. When the modules are completed, look for new pages in the Web tab of the Entity Database under the Scenario name. At this stage Core Impact has located pages associated with a web application and you can move to the Attack and Penetration step of the RPT.

## WebApps Attack and Penetration

1. Click the **WebApps Attack and Penetration** step to launch the Attack and Penetration wizard.
2. Click the **Next** button to get started.
3. Click the ellipsis button  to see a list target pages and/or scenarios. Place a check next to each scenario or page you wish to target, then click **OK**. You will return to the wizard.
4. Click the **Next** button to proceed with the test.
5. Un-check all options except **A3 – Injection**. Then click **Next**.

Core Impact can also test for SQL Injection and Remote File Inclusion vulnerabilities.

6. Use the default settings for **Cross-site Scripting tests configuration** and click **Next**.

These options allow advanced customization of the RPT.

7. Use the default settings for **Session Management** and click **Finish**.

These options can prevent the test from self-terminating.

**NOTE:**

Note that, if you opt to look for Persistent XSS vulnerabilities, Core Impact may add comments, create database entries or make other changes to the web application.

The Attack and Penetration step will launch the necessary modules - monitor the Executed Modules pane to track them. When the modules are completed, expand the Vulnerable Pages folder in the Entity Database and click on the XSS folder. Any pages in this folder have been identified by Core Impact as being vulnerable to XSS attacks. Each page will also have a XSS Agent under it. These XSS Agents are not deployed on the web application but instead represent the capability of using Cross-site scripting to access visiting users' browsers.

Once an XSS Agent exists, you can use Core Impact modules to exploit the XSS vulnerability and further test the overall security of your web application.

# WebApps Browser Attack and Penetration

1. Click the **WebApps Browser Attack and Penetration** step to launch the wizard.
2. Click the **Next** button to get started.
3. Click the ellipsis button  to view a list of available XSS Agents. Place a check next to the agent you wish to exploit, then click **Next**.  
This form also allows you to alter the email template and subject to maximize the effectiveness of the test.
4. Click the **From:** button and select an email address that will serve as the sender of your attack email, then click **OK**.  
If the email address you want is not yet in the Entity view, you can right-click in the list to create a new one.
5. Click the **To:** button and select one or more email addresses that will be the recipients of your attack email, then click **OK**.
6. Click the **Next** button to proceed with the test.
7. Enter the address of your SMTP server, then click **Finish**.

The Browser Attack and Penetration step will launch the necessary modules - monitor the Executed Modules pane to track them. The email will be sent to your recipient(s) with a link inside. If a user clicks the link, they will be connected to the web server module that is running in Core Impact and an agent will be deployed.

Once you have a browser agent connected, you can then run modules against the browser. For example:

- Using the **Get Cookies or Key Logger** modules in the Information **Gathering -> Local** folder may gain additional sensitive information from the target machine.
- The **Fetch page through web browser** module, located in the **Information Gathering** folder, will use the connected browser to retrieve a known page that is specific to the user, such as a profile or setup page.
- If you wish to use browser control to gain operating system level control on the machine where the browser is running, modules in the **Agents** folder such as the **Launch One Link Multiple Client-sides Exploit using Web Browser Agent** module can attempt this.

# WebApps Report Generation

1. Click the **WebApps Report Generation** step to launch the WebApps Report Generation wizard.
2. Click the **Next** button to get started.
3. Click the ellipsis button  to view and select a **Scenario** for which you want a report. Click **OK** to return to the wizard, then click **Next**.
4. Select the report you wish to run, then click **Next**.  
See below for report types and descriptions.
5. Each report will have one or more additional options - use the default settings for now and click the **Finish** button to generate the report.  
Additional options vary depending on the report type.

## Available WebApps RPT Reports

- **WebApps Executive Report:** A high-level report showing summary data of the RPT results.
- **WebApps Vulnerability Report:** A detailed report showing all vulnerabilities that were found by the RPT.
- **WebApps Delta Report:** Provides a comparison between two workspaces.



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