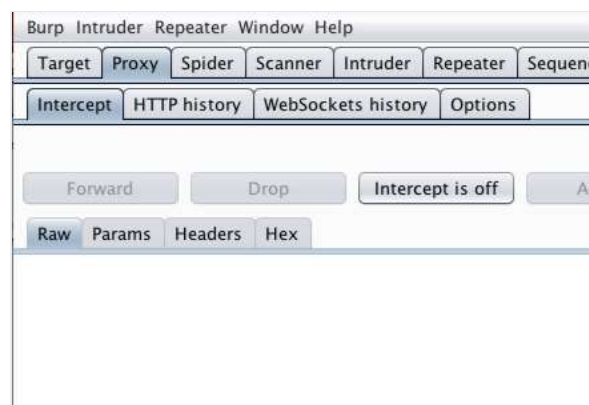


Using Burp Scanner to Test for DOM-Based XSS

DOM-based XSS (sometimes referred to as **DOM-based JavaScript injection**) vulnerabilities arise when a client-side script within an application's response data from a controllable part of the DOM (for example, the URL), and executes this data as JavaScript. An attacker may be able to use the vulnerability to construct a URL which, if visited by another application user, will cause JavaScript code supplied by the attacker to execute within the user's browser in the context of that user's session with the application. The attacker-supplied code can perform a wide variety of actions, such as stealing the victim's session or login credentials, performing arbitrary actions on the victim's behalf, and logging their keystrokes.

First, ensure that Burp is correctly **configured with your browser**.

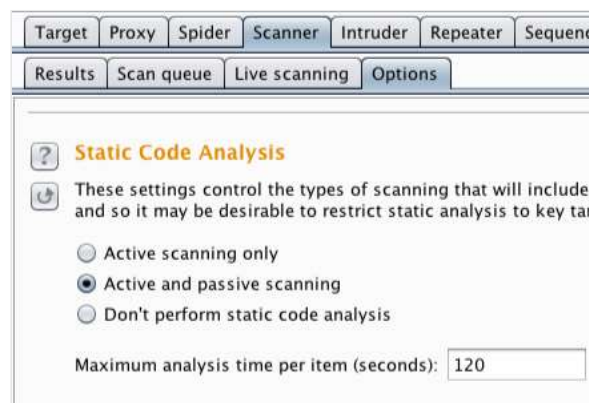
With Burp **Proxy** "Intercept" turned off, visit the web application you are testing in your browser.



One way to test a web application for potential **DOM XSS** vulnerabilities is by using **Burp Scanner**. By applying certain options, Burp Scanner will passively scan for DOM XSS vulnerabilities.

Go to the Scanner "Options" tab and locate the "Static Code Analysis" options.

By default, Burp only performs static analysis for bugs like XSS during active scanning, but you can also enable this for passive scanning.



Now, visit the page of the website you wish to test for XSS vulnerabilities.



Go to the Scanner "Results" tab to view any potential vulnerabilities.



In this example we can discern that the parameter name must be equal to the param variable when the function is called. This satisfies the "if" statement.

The function called is "trigMMlurl".

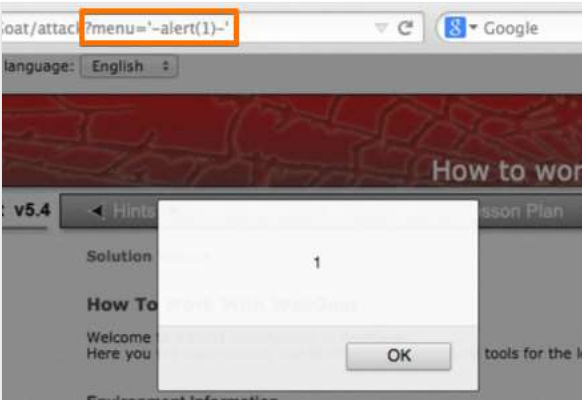
We can then discern that the parameter name is "menu".

We can also use single quotation marks to break out of the function.

Advisory	Request1	Response1	Request2	Response2										
<table border="1"><thead><tr><th>Raw</th><th>Headers</th><th>Hex</th><th>HTML</th><th>Render</th></tr></thead><tbody><tr><td colspan="5"><pre><script language="JavaScript1.2" src="javascript/javas <script language="JavaScript1.2" src="javascript/menu <script language="JavaScript1.2" src="javascript/lesso <script language="JavaScript1.2" src="javascript/makeW <script language="JavaScript1.2" src="javascript/toggl </head> <body class="page" onload="setMenuMagic1(10,40,10,'menubottom','menu5','s 200','submenu200','mbut200','menu400','submenu400','mb enu600','mbut600','menu700','submenu700','mbut700','me but900','menu1000','submenu1000','mbut1000','menu1100' t1200','menu1300','submenu1300','mbut1300','menu1400' 1500','menu1600','submenu1600','mbut1600','menu1700',' 800','menu1900','submenu1900','mbut1900','menu2000','s 00');trigMMlurl('menu',1);IM_preloadImages('images/but mares/buttons/100x100px/100x100px.png','images/buttons/param</pre></td></tr></tbody></table>					Raw	Headers	Hex	HTML	Render	<pre><script language="JavaScript1.2" src="javascript/javas <script language="JavaScript1.2" src="javascript/menu <script language="JavaScript1.2" src="javascript/lesso <script language="JavaScript1.2" src="javascript/makeW <script language="JavaScript1.2" src="javascript/toggl </head> <body class="page" onload="setMenuMagic1(10,40,10,'menubottom','menu5','s 200','submenu200','mbut200','menu400','submenu400','mb enu600','mbut600','menu700','submenu700','mbut700','me but900','menu1000','submenu1000','mbut1000','menu1100' t1200','menu1300','submenu1300','mbut1300','menu1400' 1500','menu1600','submenu1600','mbut1600','menu1700',' 800','menu1900','submenu1900','mbut1900','menu2000','s 00');trigMMlurl('menu',1);IM_preloadImages('images/but mares/buttons/100x100px/100x100px.png','images/buttons/param</pre>				
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The payload is added to the URL in the address bar of your browser.

The payload we have used to produce the proof of concept is ?menu='-alert(1)-'.



Related articles:

- Getting started with Burp Proxy
- Getting started with Burp Scanner

Burp Suite

Web vulnerability scanner
Burp Suite Editions
Release Notes

Vulnerabilities

Cross-site scripting (XSS)
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Cross-site request forgery
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