## Using Burp's Site Map to Test for Access Control Issues

The easiest and most effective way to test an application's access controls is to access the application using different accounts. Testing an application's access the application using different accounts. Testing an application's access the application using different accounts. Testing an application's access the application using different accounts. Testing an application's access the application using different accounts. Testing an application's access the application using different accounts. Testing an application's access the application using different accounts.

Burp Suite lets you map the contents of an application using two different user contexts. You can then compare the results to see exactly where the cont accessed by each user is the same or different. This tutorial uses a version of WordPress taken from OWASP's Broken Web Application Project. Find ou download, install and use this project.

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

With intercept turned off in the Proxy "Intercept" tab, visit the login page of the application you are testing in your browser.



Ensure you open your browser in "Private" or "Incognito" mode.

This will stop the browser from caching data or reusing any existing user context.



Browse all the application's content within one user context.

In this example we have accessed the navigational links at the top of the page, logged in with the credentials user2: user2.

(Note: The user2 account was created for the purposes of this tutorial.)





Go to the Target "Site map" tab. The site map will be populated with request/response interactions with the application.

In this example we have saved the site map in a Burp state file.

It is also possible to have Burp dynamically rerequest the first site map in a new session context.

Burp Intruder Repeater Window Help Search canner Intruder Repeater Sequence Restore state Remember settings ems Restore defaults Host http://17. robots.txt http://17. wordpress http://17. ► @ / http://17. http://17. 0/ http://17. categories.php http://17 edit-comments.php http://17 edit.php http://17.

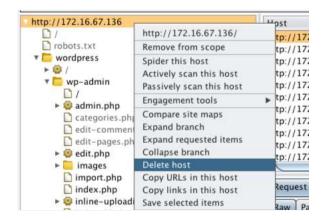
Next, sign out of the application and return to the login page.

Log in to the second account you wish to compare. In this example we have used the credentials user: user, a default account with this version of WordPress.



In Burp, return to the "Site map" tab.

Right click on the host and click "Delete host" to clear the Site map.



Access the area or functionality of the application that you are testing.

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Burp's Site map will again populate with interactions with the application.	Methodology_Access_Controls_User_Accounts_4
Right click on the application title in the Target "Site map" tab and click "compare site maps".	
The "Compare site maps" window will pop up. For "Site Map 1" select "Use current site map and click "Next".	Methodology_Access_Controls_User_Accounts_5
In the next options window you can configure your comparison further.  Consider what you wish to include in your comparison, select the appropriate option/s and click "Next".	Methodology_Access_Controls_User_Accounts_6
Next you will need to configure your second site map.  In this example, "Site Map 2" will be loaded from the from previously saved Burp state file.	Methodology_Access_Controls_User_Accounts_7
Select "Load from Burp state file" and click next.	

Select the appropriate file from the load file window and click "Open".	Methodology_Access_Controls_User_Accounts_8
Ensure that the correct file appears in the "Compare" site map window and click "Next".	Methodology_Access_Controls_User_Accounts_9
As with "Site Map 1", you are able to configure your comparison in the next options window.  Select the appropriate configuration options and click "Next".	Methodology_Access_Controls_User_Accounts_10
The "Request Matching Window" window will pop-up.  In this example we have retained the default settings, which work effectively for most situations.  Use the default settings or use the options to customize your request matching rules and click "Next".	Methodology_Access_Controls_User_Accounts_11

The "Response Comparison" window allows you to configure how Burp handles features such as response headers when performing site map comparisons.

Configure the setting appropriately and click "Next".

The "Compare sites maps" window will now display both site maps.

Explore the content of both site maps and compare them to assess their respective access control levels.

In this example it is apparent that the "Admin" account ("Map 2") has a wider variety of links and accessible content from browsing the same area of the application's functionality.

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