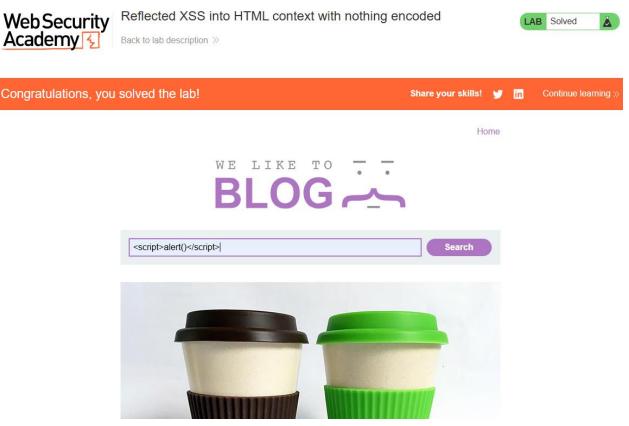
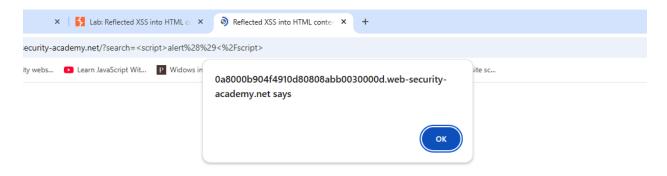
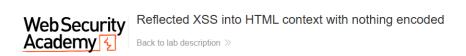
Cross-Site Scripting (XSS)

1. Reflected XSS



Reflected cross site scripting by entering script into search bar. In this case the alert function to detect whether the web app is vulnerable. You can see the alert function has been executed below.





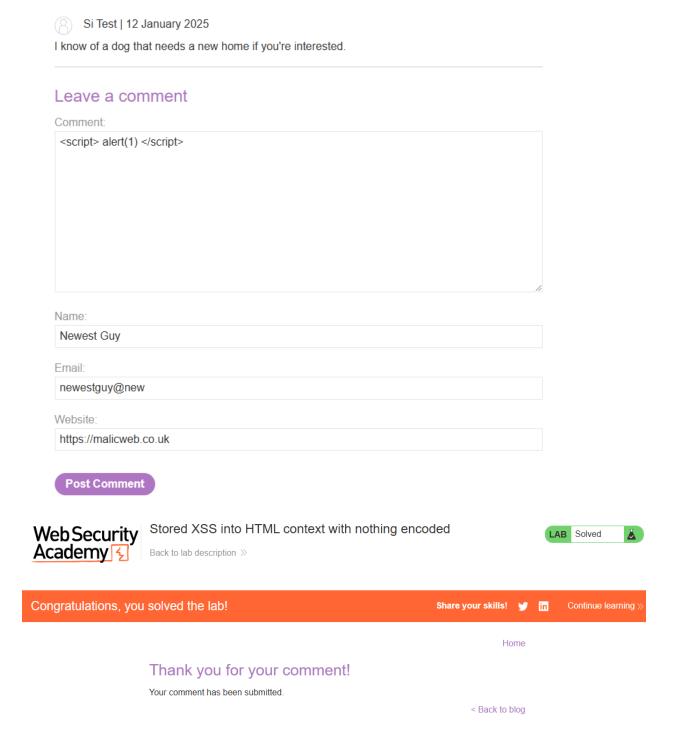


Congratulations, you solved the lab!	Share your skills! 💆 🛅 Continue learning
	Home
0 search res	ults for "
Search the blog	Search
	< Back to Blog

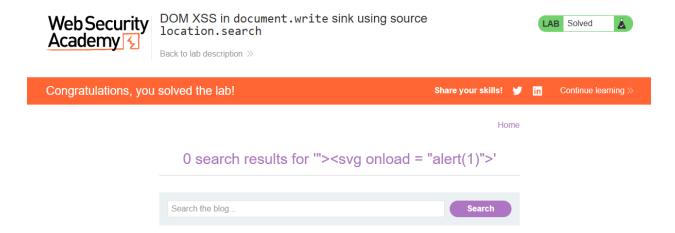
Also note how the result has not displayed any of the script (just "). This has executed the script. If controls were in place we might see 0 search results for <script>alert()</script> or the search might have not worked at all.

2. Stored XSS

Here is a comments section on a blog. For stored XSS, here the script gets posted directly into the comments section. Thereafter any occurrence of a user visiting the blog the malicious script will execute in the victim user's browser during their session with the application.



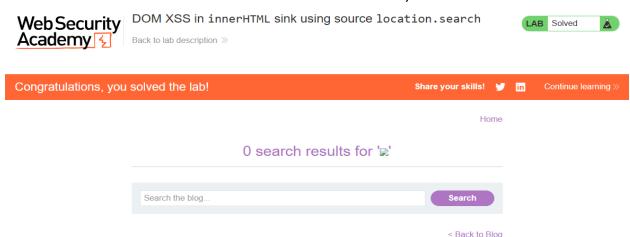
3. DOM XSS



The solution to the lab was achieved by first searching where to sink script. In this case the random string I used was easily located - "cheese". Now we know where to place our script and using the "><svg onload=alert(1)> we can break out the image element and replace it with potentially malicious payload.

4. DOM XSS in innerHTML

Again, initially using the search bar of the blog to enter a random string to identify the element. My search "cake" had been assigned to "searchMessage" which was later called in the query function "doSearchQuery". The innerHTML sink was used to place an alert() (acting as malicious payload) using (see the img icon in the failed search below).



5. DOM XSS in jQuery anchor href attribute sink using location.search source



DOM XSS in jQuery anchor href attribute sink using location.search source

Back to lab description >>

Congratulations, you solved the lab!

Share

Submit feedback

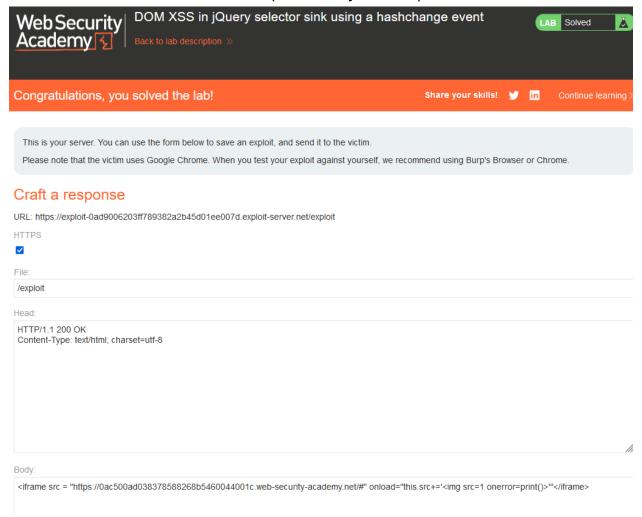
Name:	
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Subject:	
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Submit feedback	
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This lab exploited a vulnerable back link on a feedback page. In the URL the back link was originally <returnPath=/> which would have redirected the user to the home page. Removing the / and replacing directly with JavaScript code <returnPath=javascript:alert(document.cookie)> reveals the vulnerability here.

3001.web-security-academy.net/feedback?returnPath=javascript:alert(document.cookie)

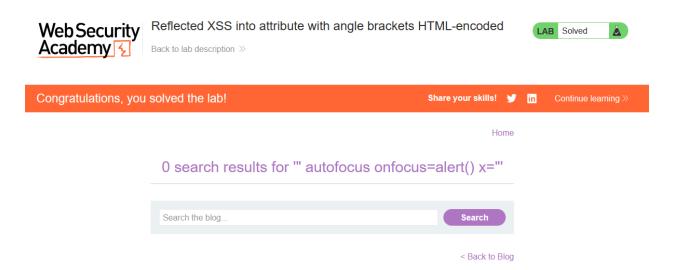
6. DOM XSS jQuery – hashchange event

The location.hash property was used to execute an autoscroll function on a blog website. The title of the post was the parameter to change in the hash property. One of the simplest ways of doing this is to deliver the exploit via an iframe (see "Body" below).



7. Reflected XSS – angle brackets html encoded

When the XSS context is into an HTML tag attribute value sometimes angle brackets are blocked or encoded, so your input cannot break out of the tag in which it appears. If you are able to terminate the attribute value, you can normally incorporate a new attribute that creates a scriptable context, such as an event handler. In this case onfocus is triggered to execute the Javascript.



8. Stored XSS into anchor href attribute with double quotes HTML-encoded

In the example below the comment section of a blog post was vulnerable to XSS attack. Note the "Website" section of the comment form. This created a href directly to whatever "website" that was provided by the blog poster and automatically hyperlinked their name (something assumed by developers to be innocuous; a link associated with/created by the blog poster). Instead we can post javascript directly into this comment section <javascript: alert()>, the alert in this case acting as the malicious content. Ultimately this can be clicked on at any later point by any user visiting the posters hyperlink.

Guy 17 Jan				
Leave a cor	nment			
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			fi.	
Name:				
Email:				
EIIIdii.				
Website:				
Post Comment				
Veb Security cademy 5	Stored XSS into anchor href attribute with double quot encoded	es HTML-	LAB Solved	
caucity 5	Back to lab description »			
ongratulations, you	solved the lab!	your skills! 🎳 🥫	Continue learning »	
		Home		
	Thank you for your comment!			
	Your comment has been submitted.	< Back to blog		

Reflected XSS into a JavaScript string with angle brackets HTML encoded

Using the search bar, it was simple to exploit a vulnerability where the XSS context is inside a string. Here you can break out of the string ('-) and execute JavaScript directly<alert()>. It's important to repair the script following the XSS context because the whole script may not execute if there are any syntax errors.

