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ETHICAL HACKING INTERNSHIP

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Task : 1

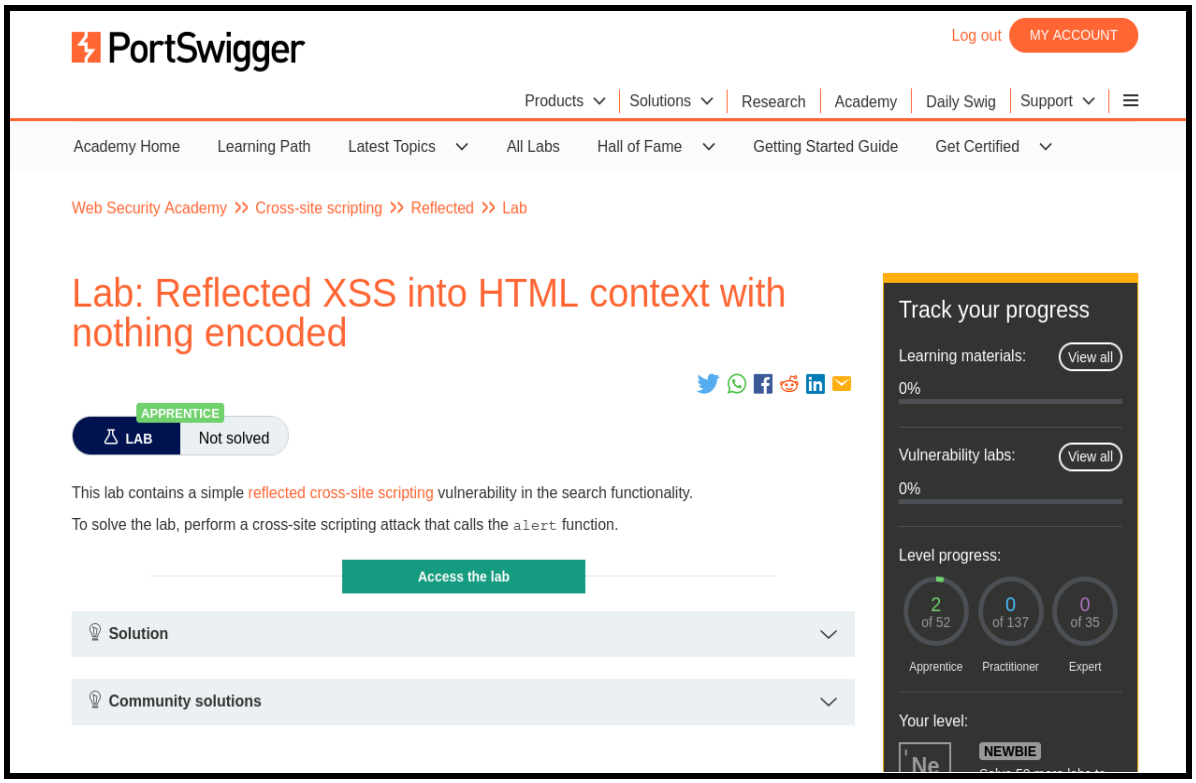
Portswigger Vulnerability Labs

https://portswigger.net/web-security/all-labs

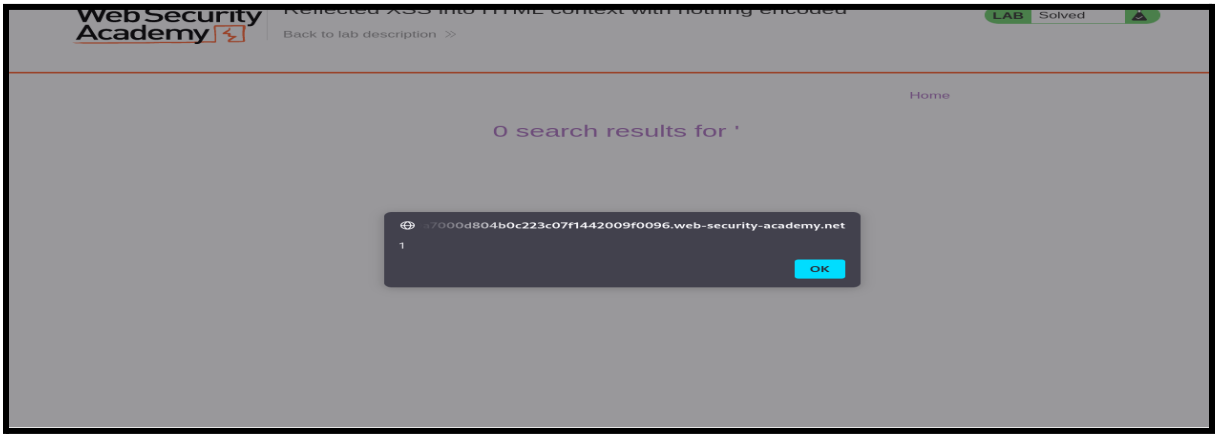
Cross-site scripting

Lab 1: Reflected XSS into HTML context with nothing encoded.

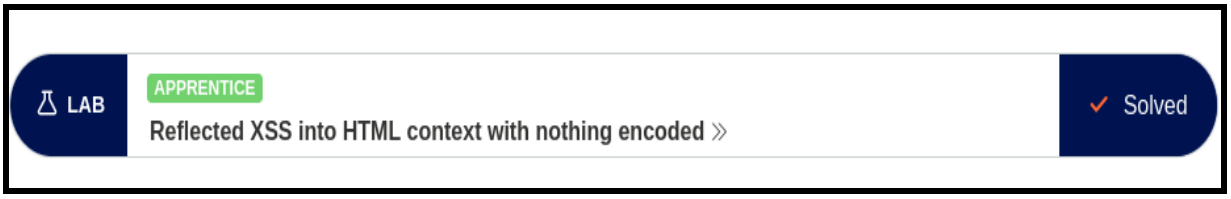
This lab contains a simple *reflected cross-site scripting* vulnerability in the search functionality.
To solve the lab,perform a *cross-site scripting* attack that calls the **alert** function.



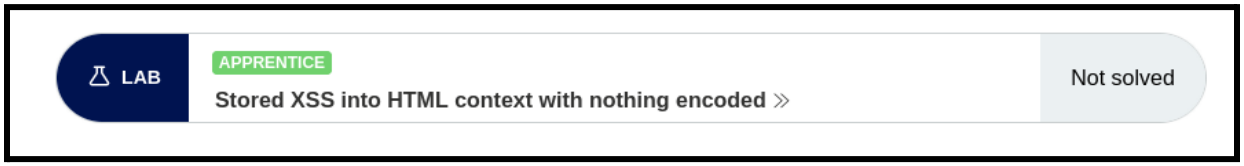
Using the script <script>alert(1)</script> we got a pop up.



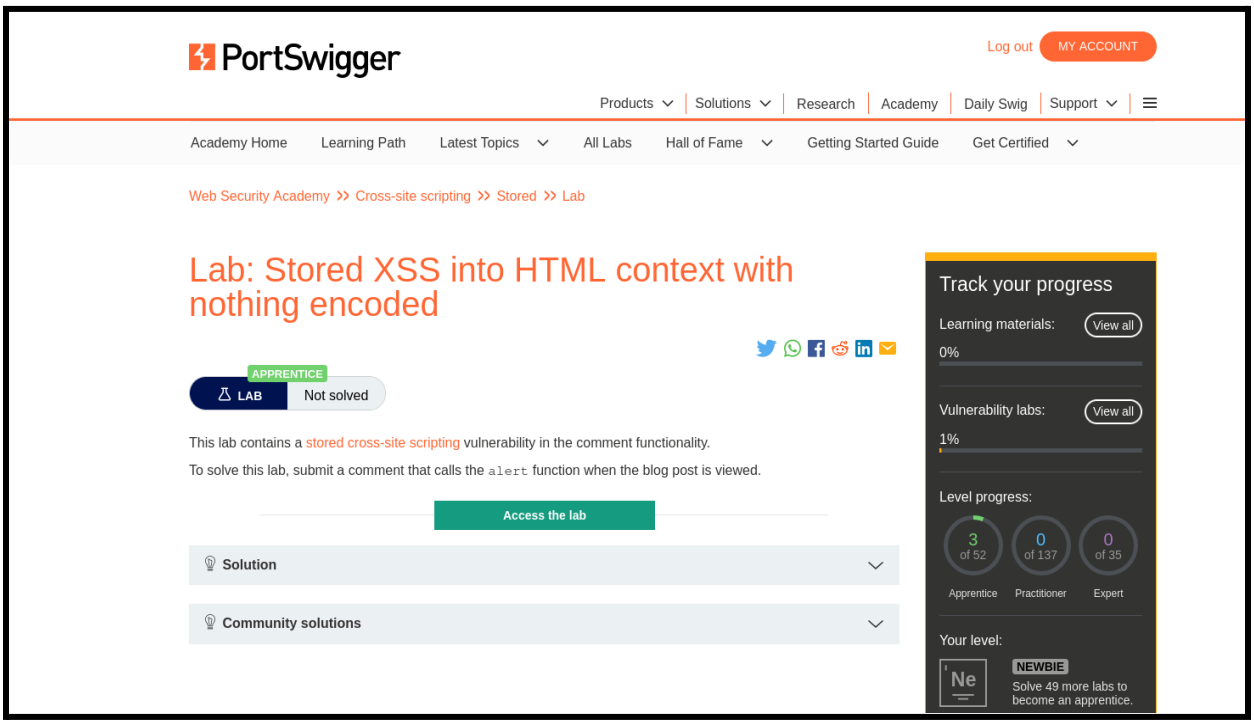
And so we have found the reflected cross-site scripting vulnerability. And hence we have completed the Lab.



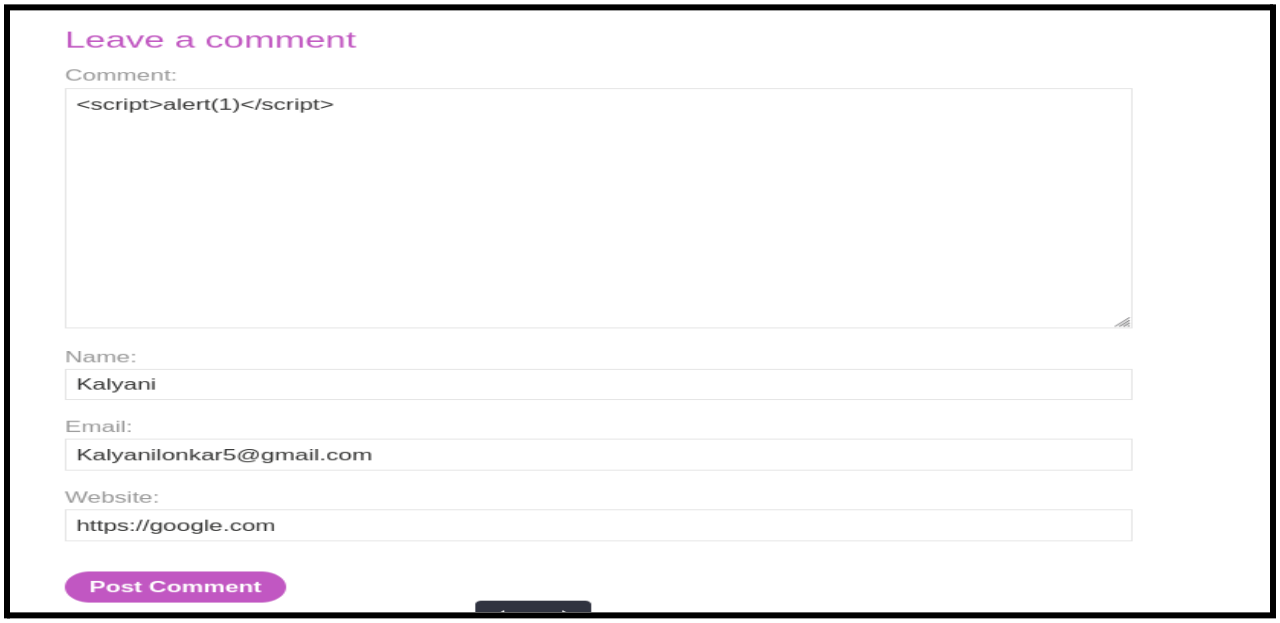
Lab 2: Stored XSS into HTML context with nothing encoded.



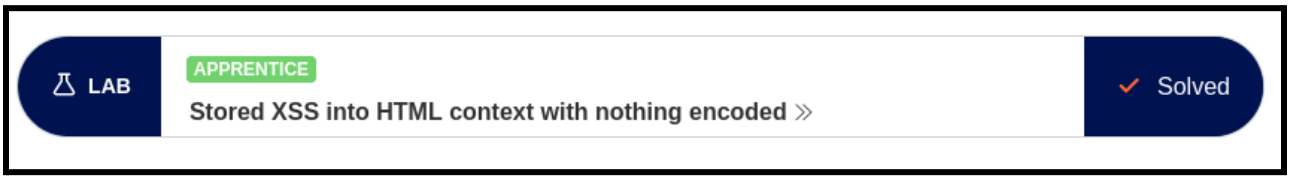
This lab contains a *stored cross-site scripting* vulnerability in the comment functionality.
To solve this lab, submit a comment that calls the **alert** function when the blog post is viewed.



After Viewing this Post. Put the <script>alert(1)</script> in the comment section and post it.



Hence we have completed the Lab.



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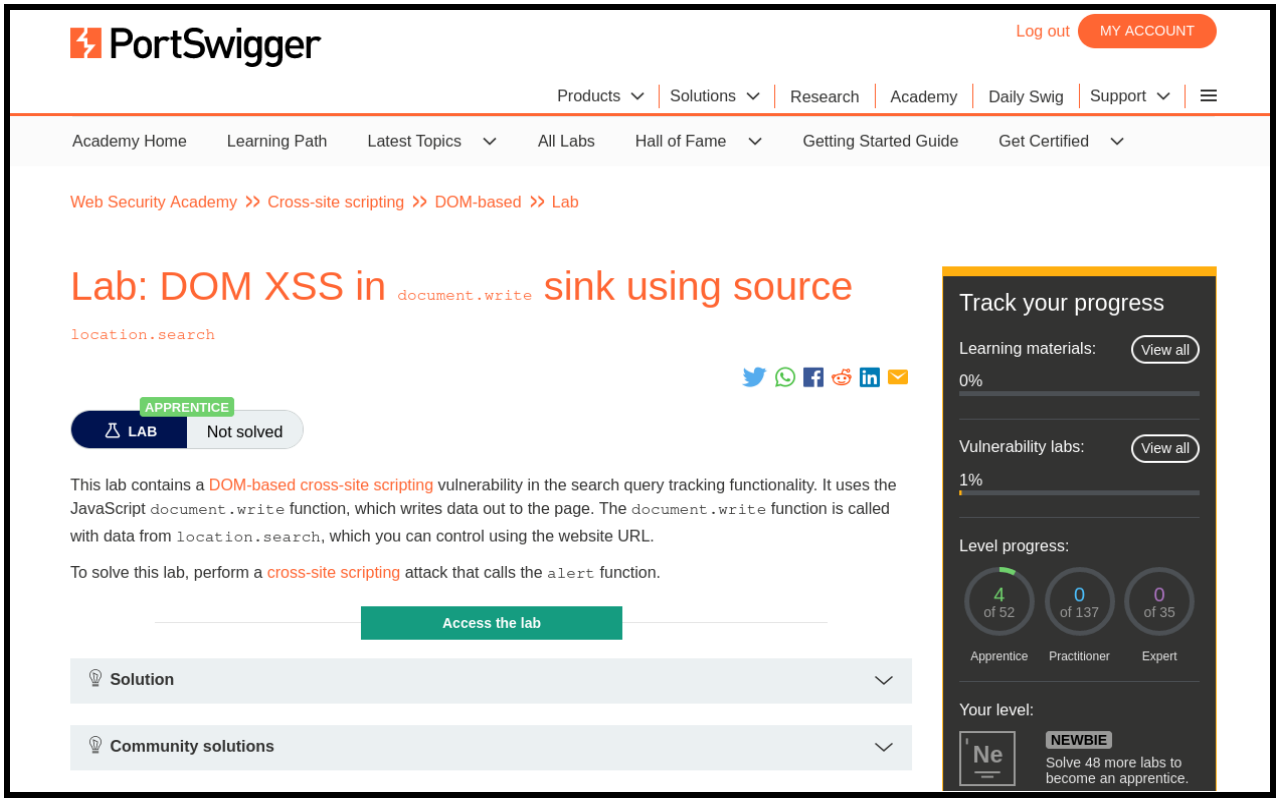
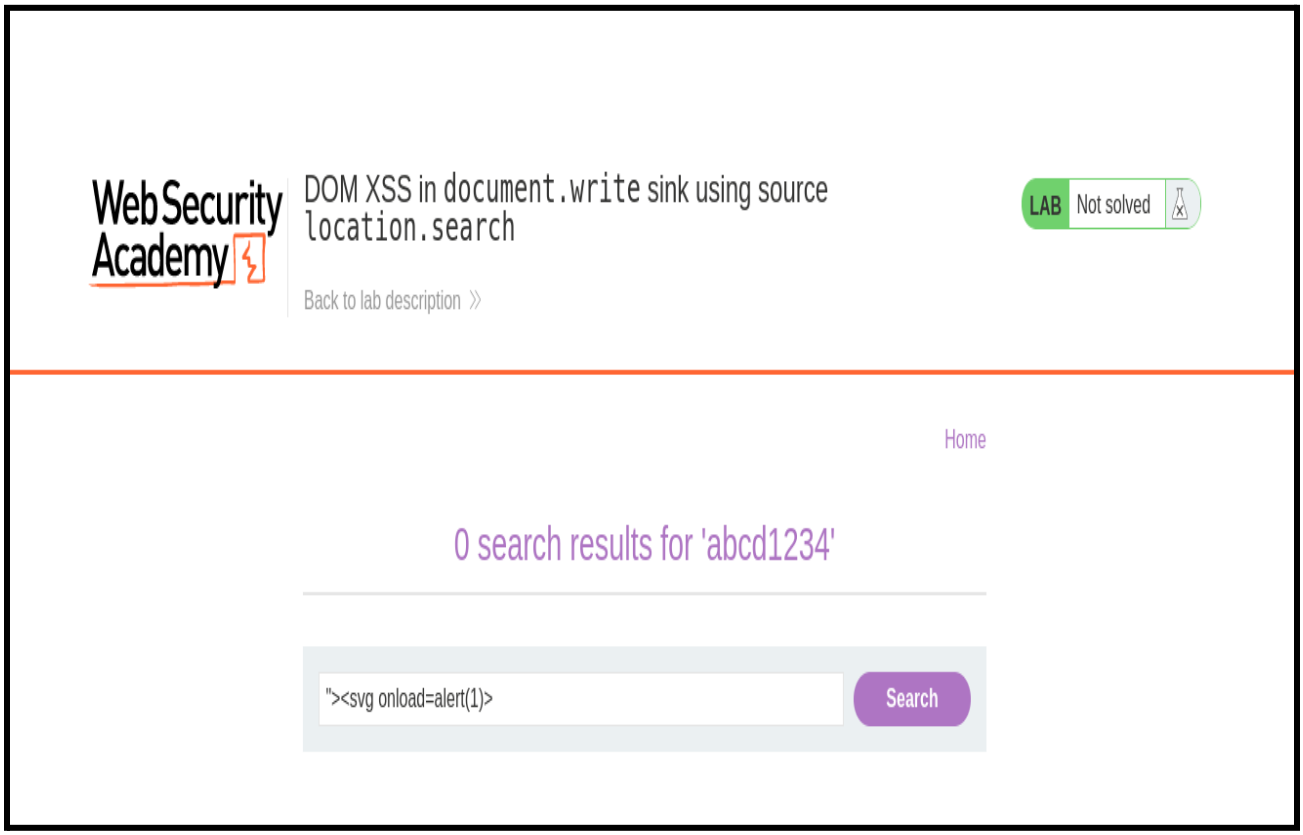
Lab 3: DOM XSS document.write sink using source location.search

This lab contains a *DOM-based cross-site* scripting vulnerability in the search query tracking functionality. It uses the JavaScript **document.write** function, which writes data out to the page. The document.write function is called with data from **location.search**, which you can control using the website URL. To solve this lab, perform a *cross-site scripting* attack that calls the **alert** function.



Performing a cross-site scripting attack that calls the alert function.



Using the script “><svg onload=alert(1)> we got the vulnerability. Hence we have completed the lab.

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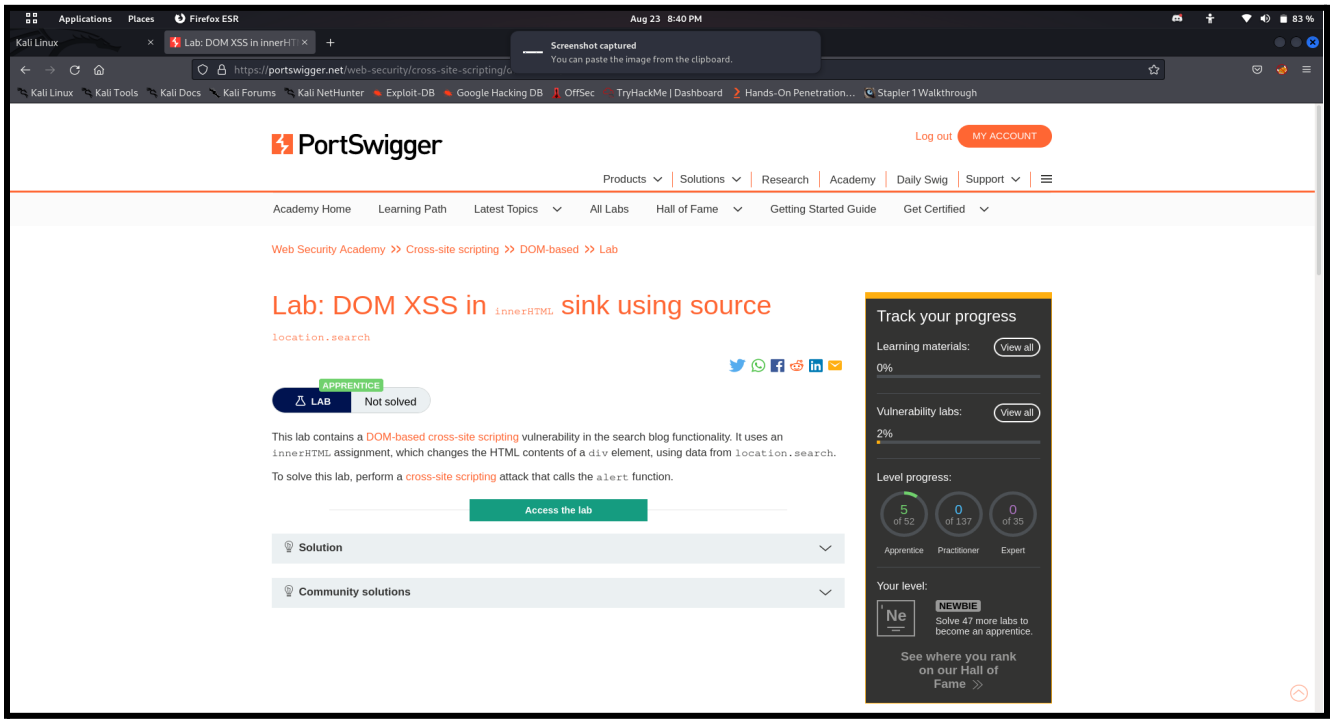
Lab 4: DOM XSS in innerHTML sink using source location.search

This lab contains a *DOM-based cross-site scripting* vulnerability in the search blog functionality. It uses an innerHTML assignment, which changes the HTML contents of a div element, using data from location.search.
To solve this lab, perform a *cross-site scripting* attack that calls the **alert** function.



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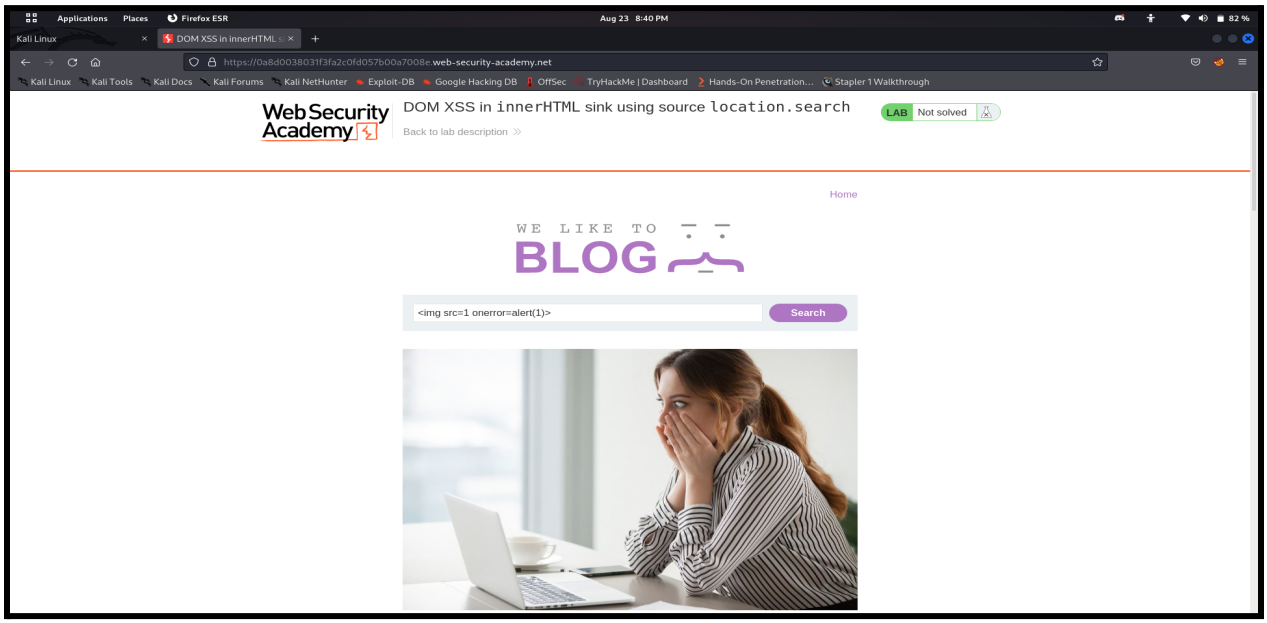
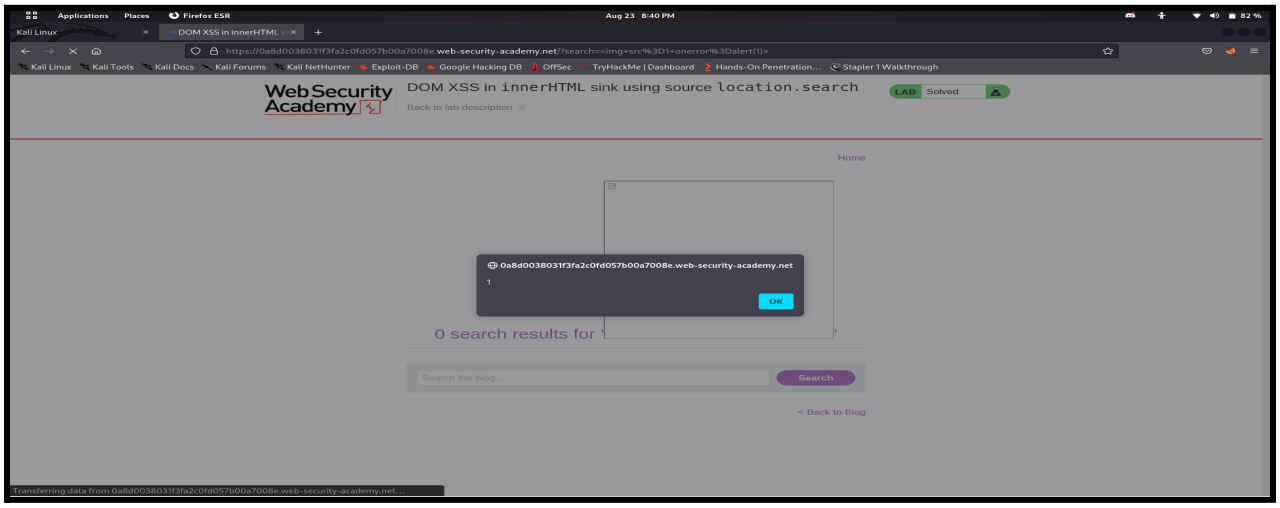
Using the Script <img src=1 onerror=alert(1)>



Hence after the pop up arrives the lab is completed



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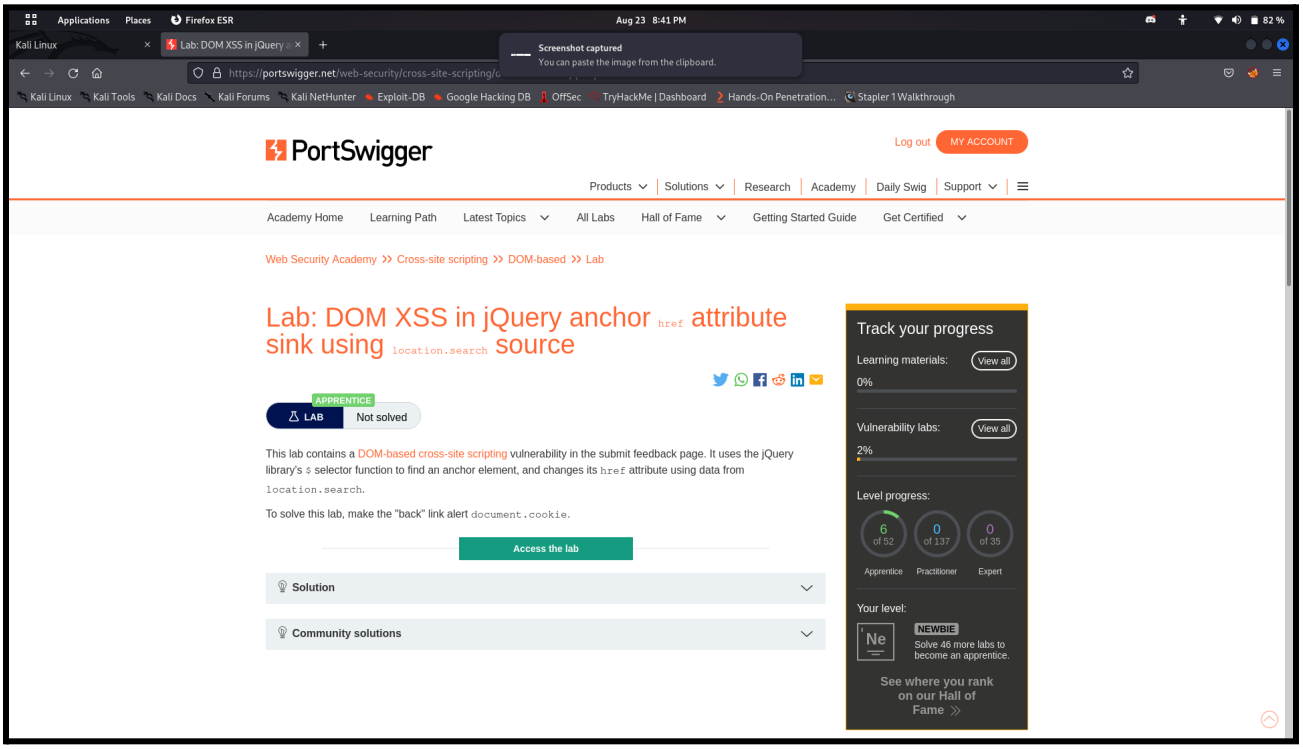
Lab 5: DOM XSS in jQuery anchor href attribute sink using location.search source.

This lab contains a DOM-based cross-site scripting vulnerability in the submit feedback page. It uses the jQuery library $ selector function to find an anchor element, and changes its href attribute using data from location.search.
To solve this lab, make the “back” link alert document.cookie.



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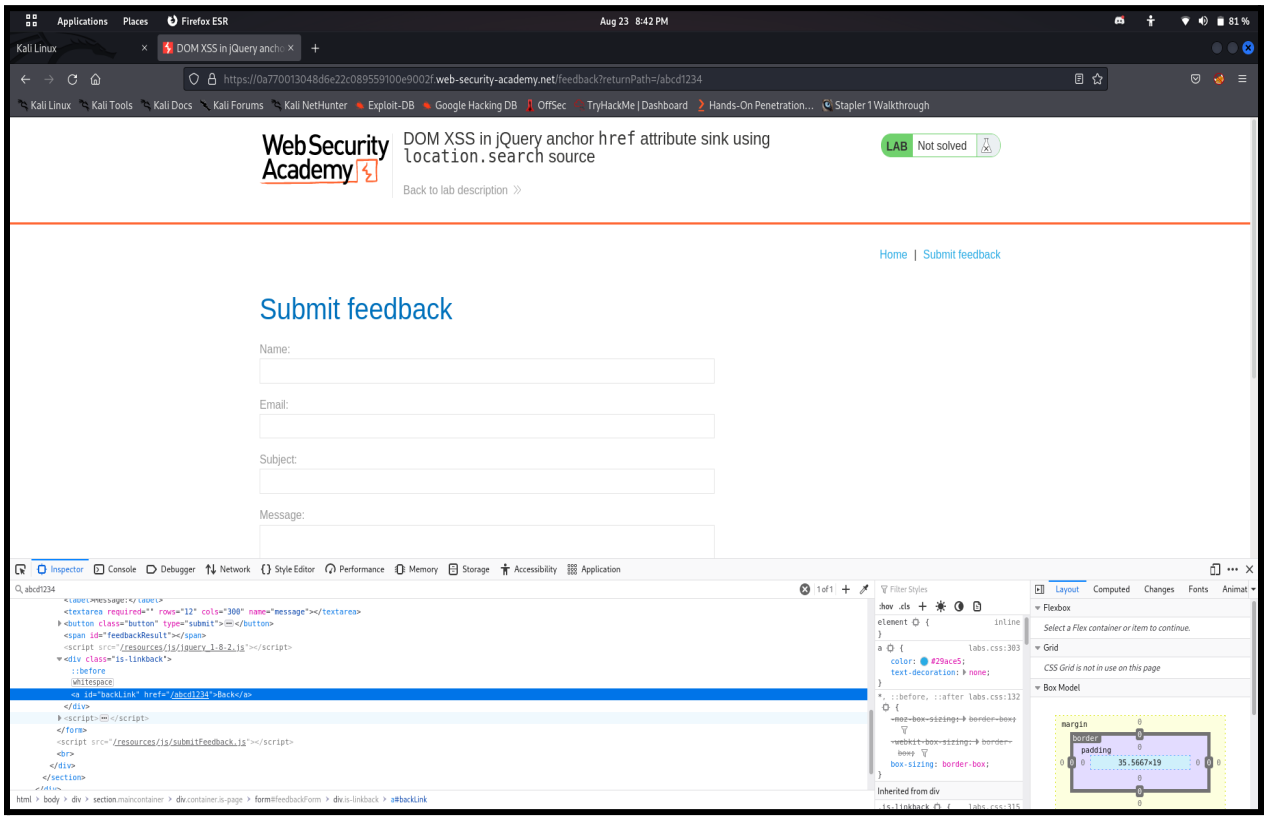
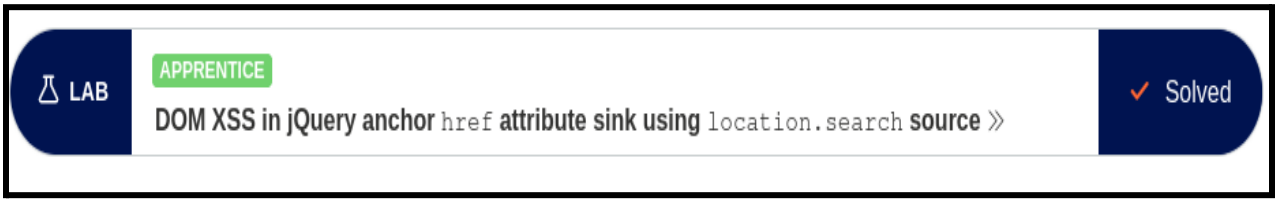
After accessing the lab inspect the page, then search abc1234



Using the script javascript:alert(1) in the page url then enter
The lab is completed.



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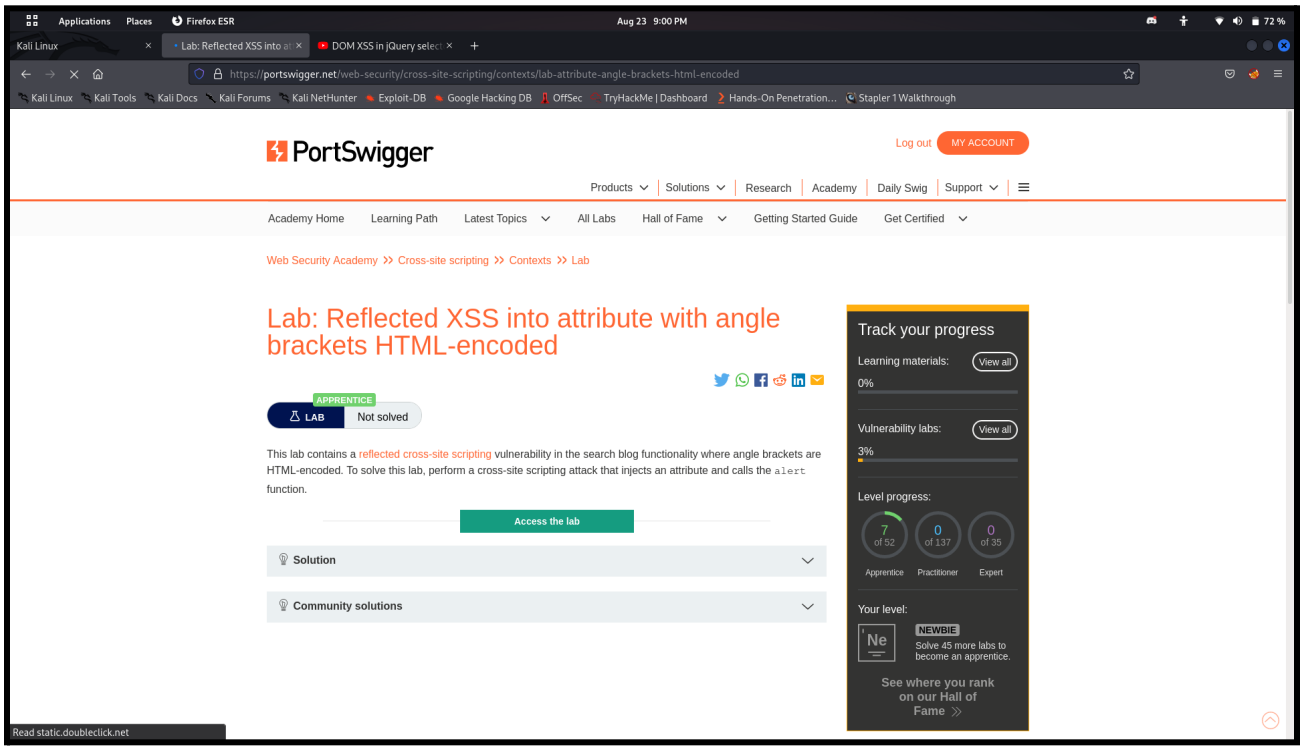
Lab 6: Reflected XSS into attribute with angle brackets HTML-encoded

The lab contains a *reflected cross-site scripting* vulnerability in the search blog functionality where angle brackets are HTML-encoded.
To solve this lab, perform a *cross-site scripting* attack that injects an attribute and calls the **alert** function.



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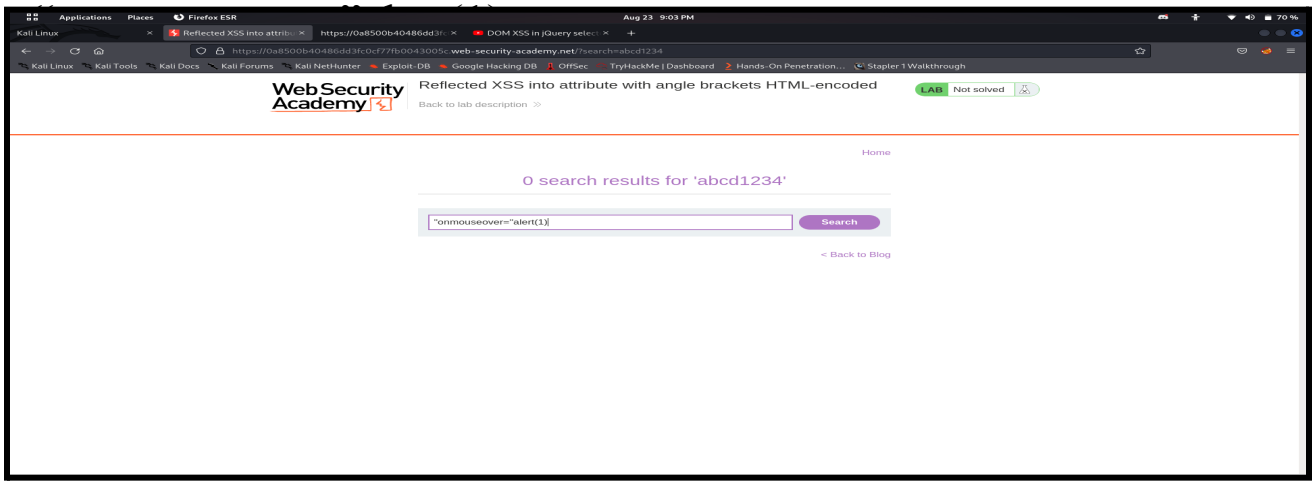
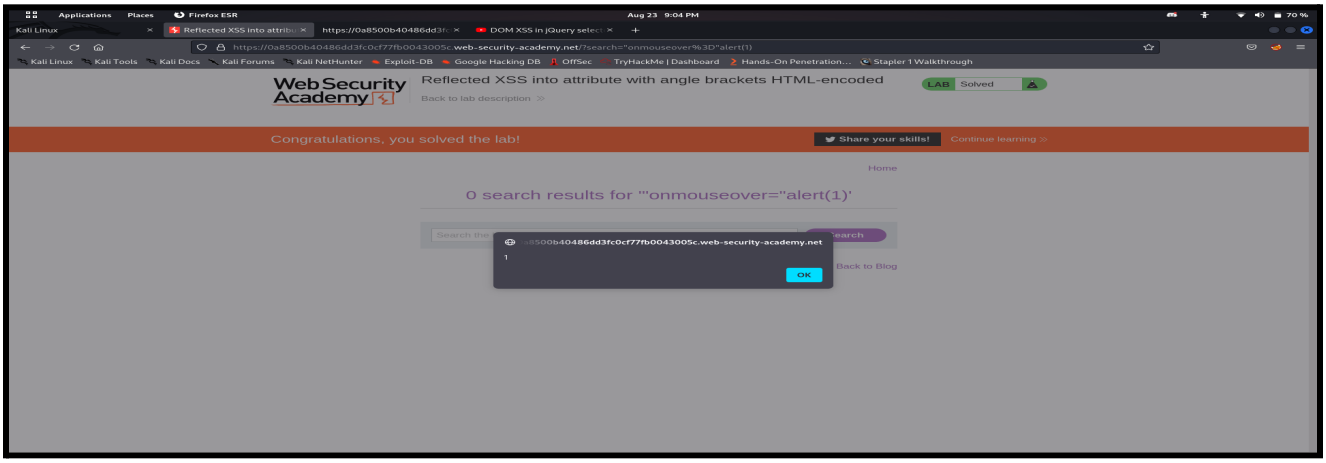
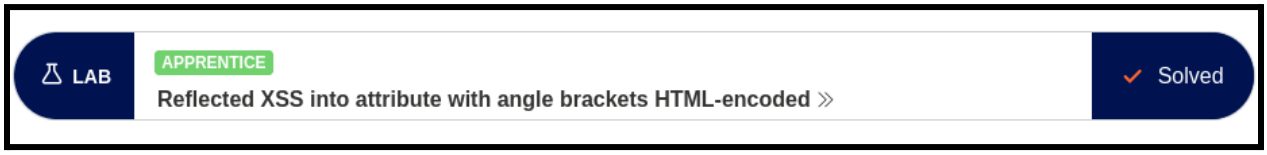
Putting the Script in the search blog functionality



After putting in the script and pressed enter got a pop up we got the vulnerability.



Hence the lab is solved.



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5 Portswigger Vulnerability Labs are Completed