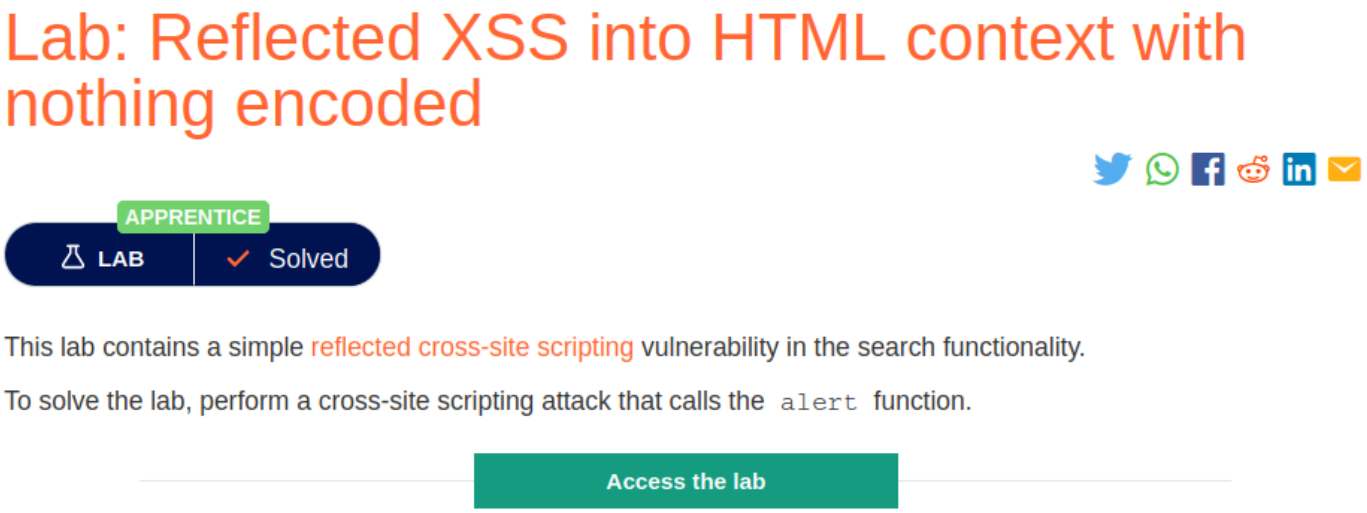
Labs

XSS

XSS (Cross Site Scripting) : Cross-site scripting is a type of security vulnerability that can be found in some web applications. XSS attacks enable attackers to inject client-side scripts into web pages viewed by other users. A cross-site scripting vulnerability may be used by attackers to bypass access controls such as the same-origin policy.

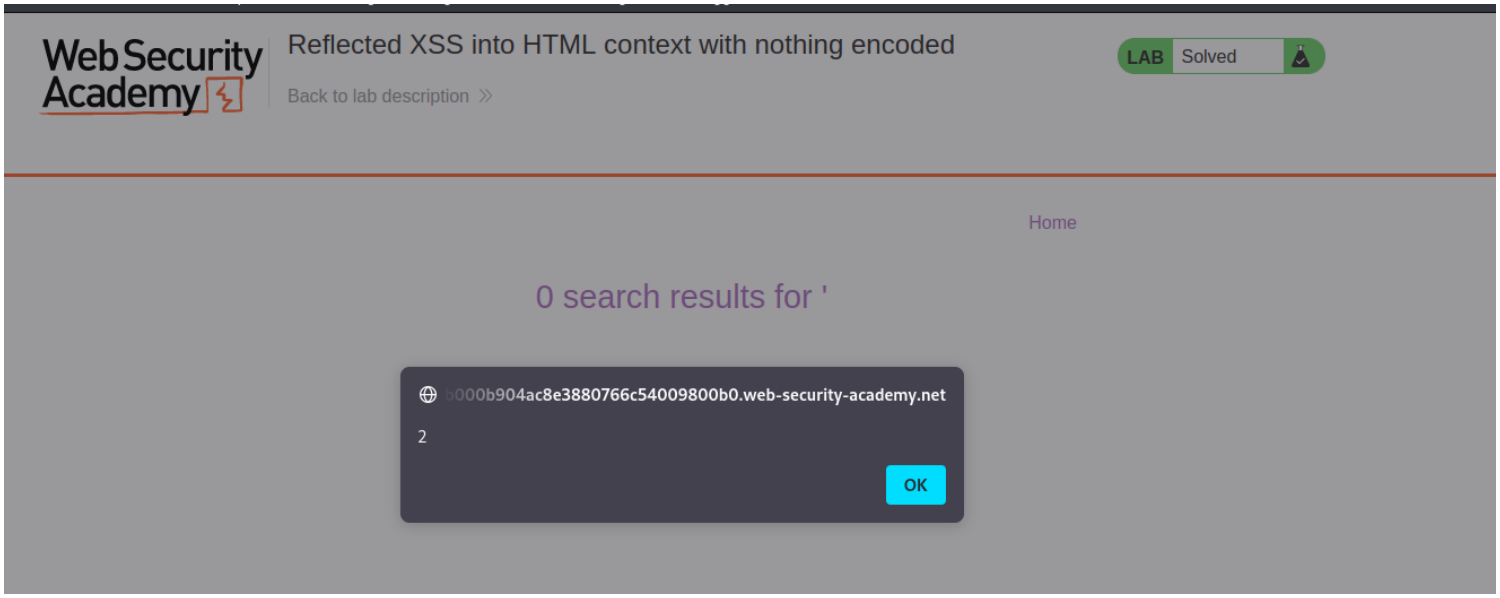
Lab 01

Lab: Reflected XSS into HTML context with nothing encoded



payload :
<script>alert(2) </script>

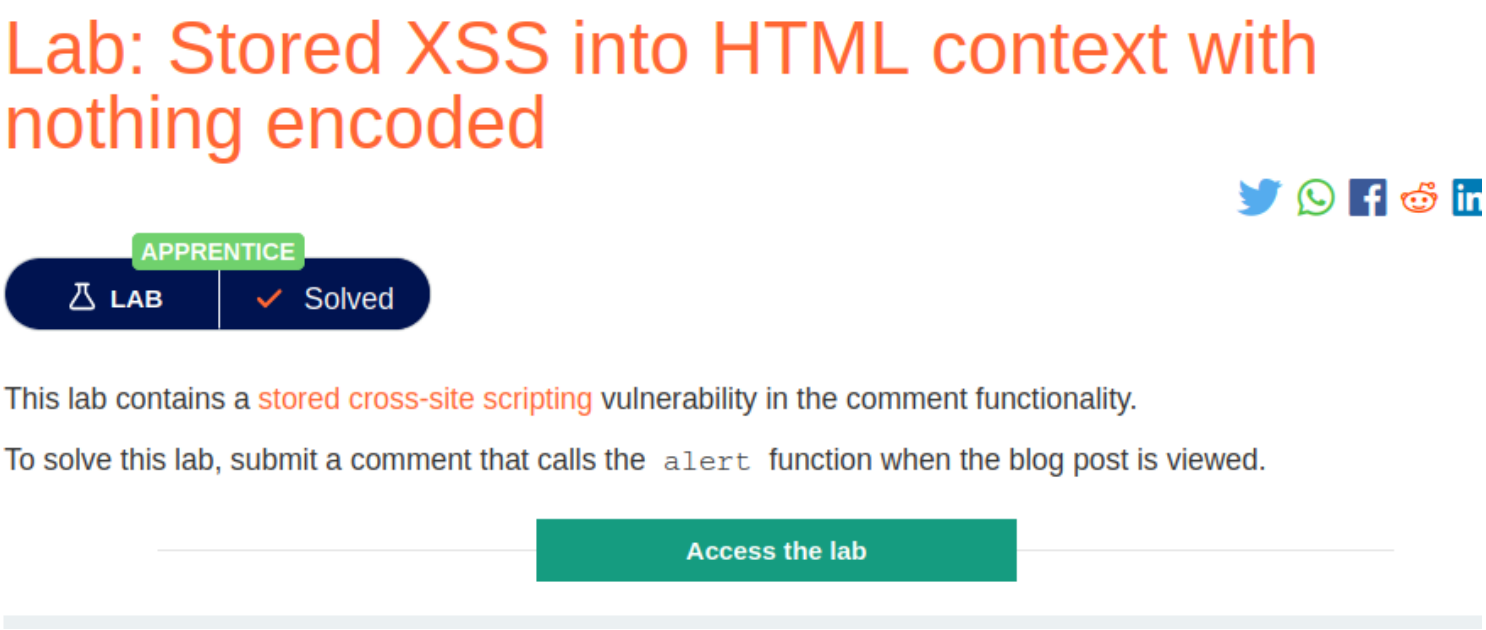
Put the above payload in search bar. It will hit the alert in browser. It is called reflected XSS because it reflects in the browser window.



Task completed.

Lab 02

Lab: Stored XSS into HTML context with nothing encoded



Payload :
<script>alert(2)</script>

Insert the payload in comment section of a blog as described below. Click on 'Post comment' button. Because this payload stores in blog. It is called stored xss. When someone reads that blog, it hits the xss alert() in browser.

Leave a comment

Comment:

<script>alert(2)</script>

Name:

abc

Email:

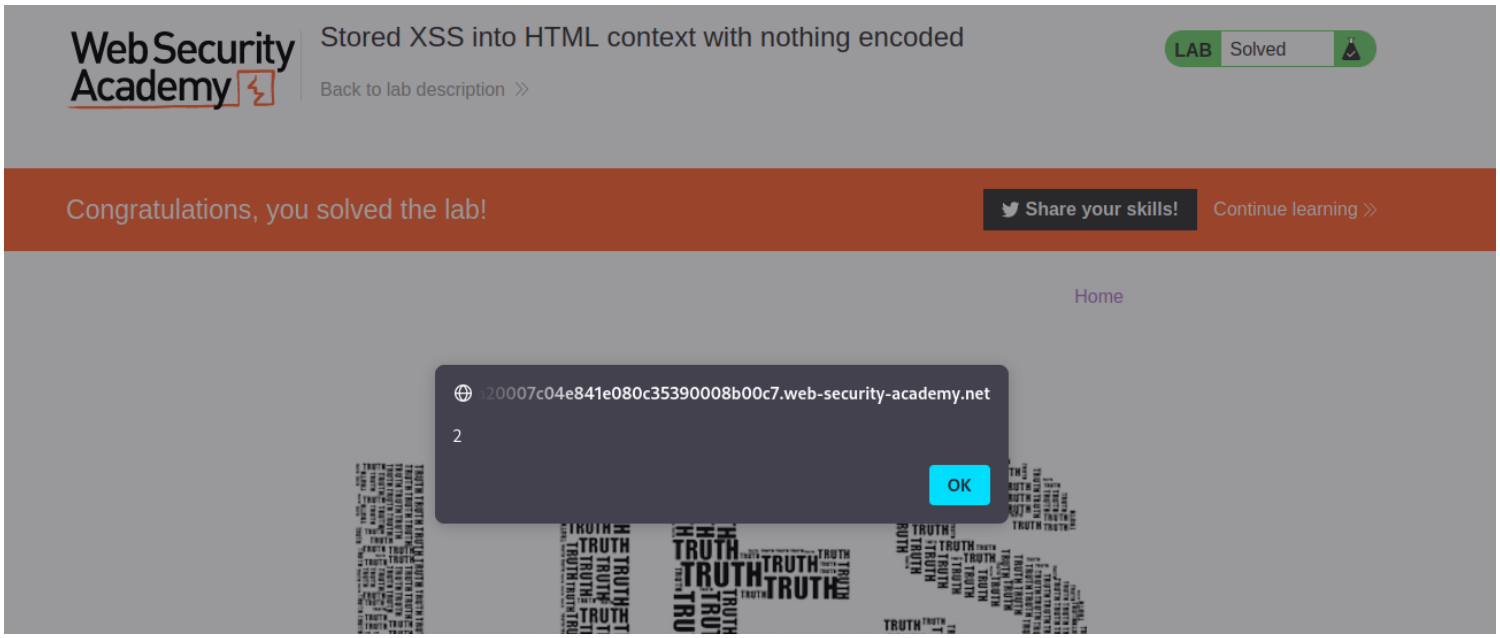
abc@test.com

Website:

https://google.com

Post Comment

< Back to Blog



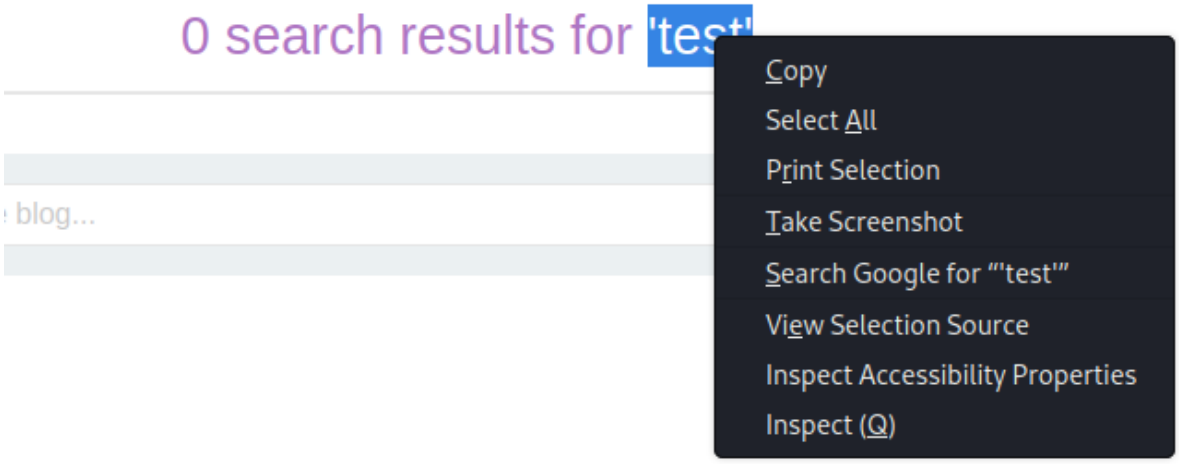
Task completed.

Lab 03

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

In the search bar: type ‘test’ or you can type any string just to notice that how web application behaves?

If user input reflects on web page , Test for XSS Vulnerability. Here our input 'test' is reflecting on web page. So for testing the web application behaiour, Right click on 'test' element and inspect it.



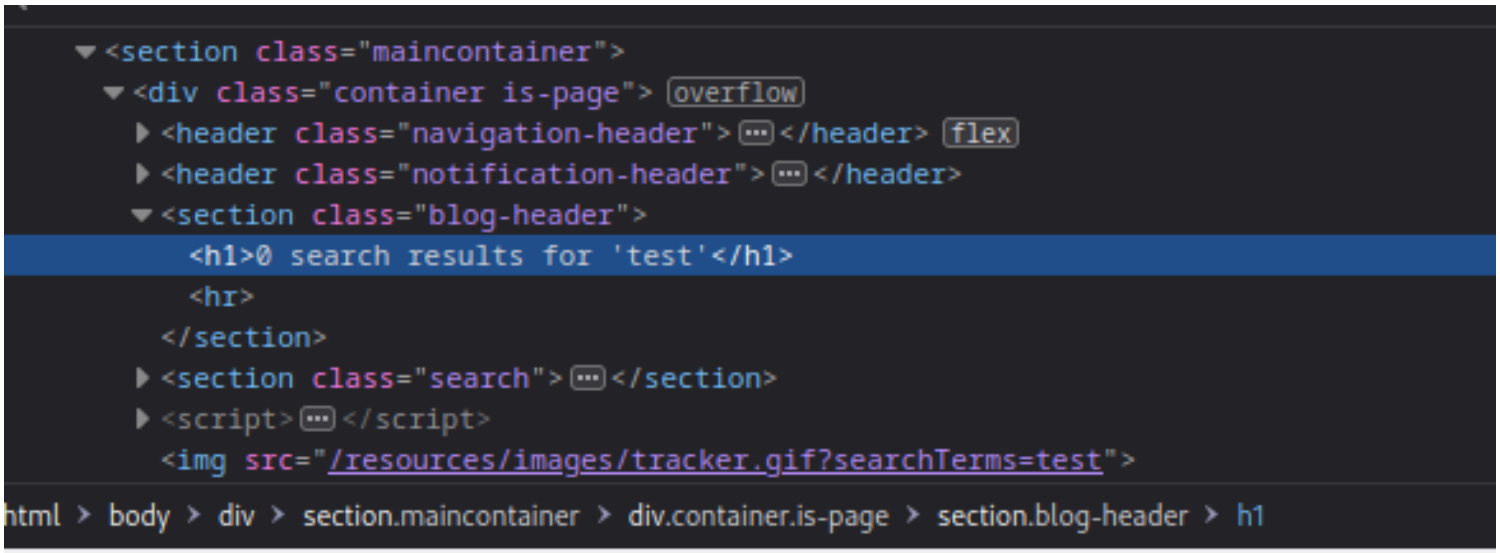
Here you can find 'test' string. By using CTRL+F, you can find the occurence of your input in the web page. I found that there are 2 occurence of 'test' string.

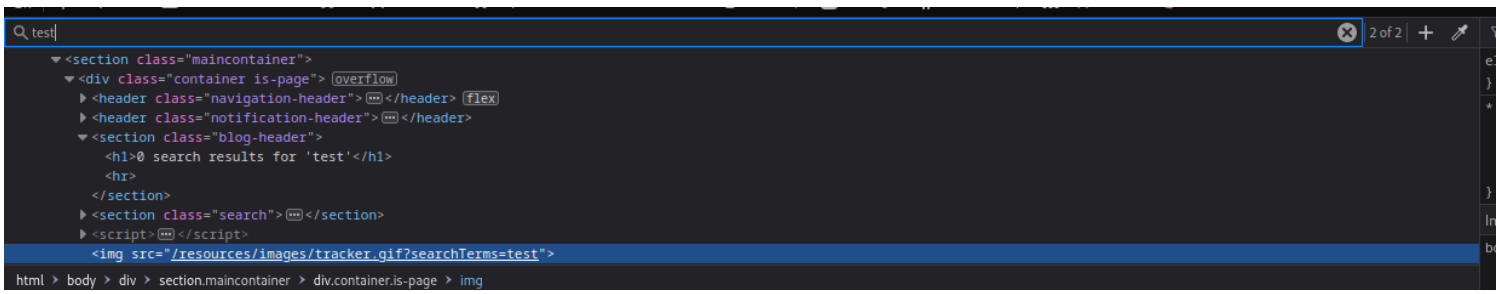
1. First in the <h1> tag
2. Second in the <img> tag.

If we put our payload <script> in search bar, it will enlosed in the “” as img src. It will display as string on the web page.

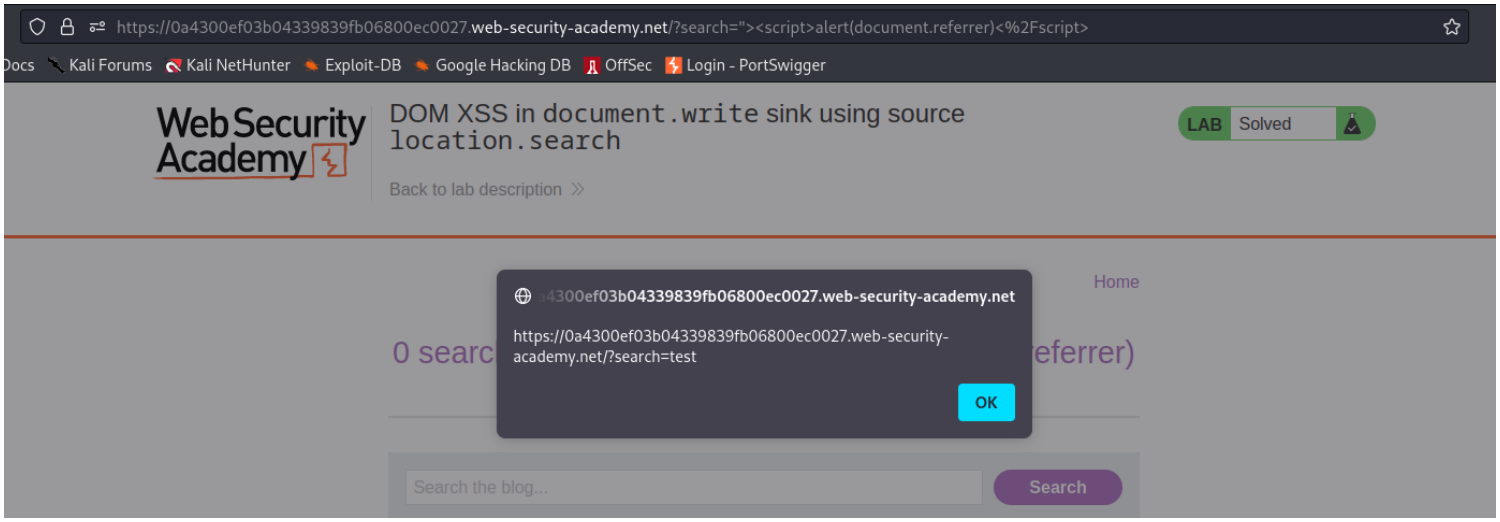
So now try all the techniques to find out that how can we execute the ‘xss’ .
In the <img> tag , web application is taking ‘test’ as an argument passed to src of image. We can close this tag by using "> and after that we will put our <script>alert(2></script>

payload in search bar:
"><script>alert(2)</script>





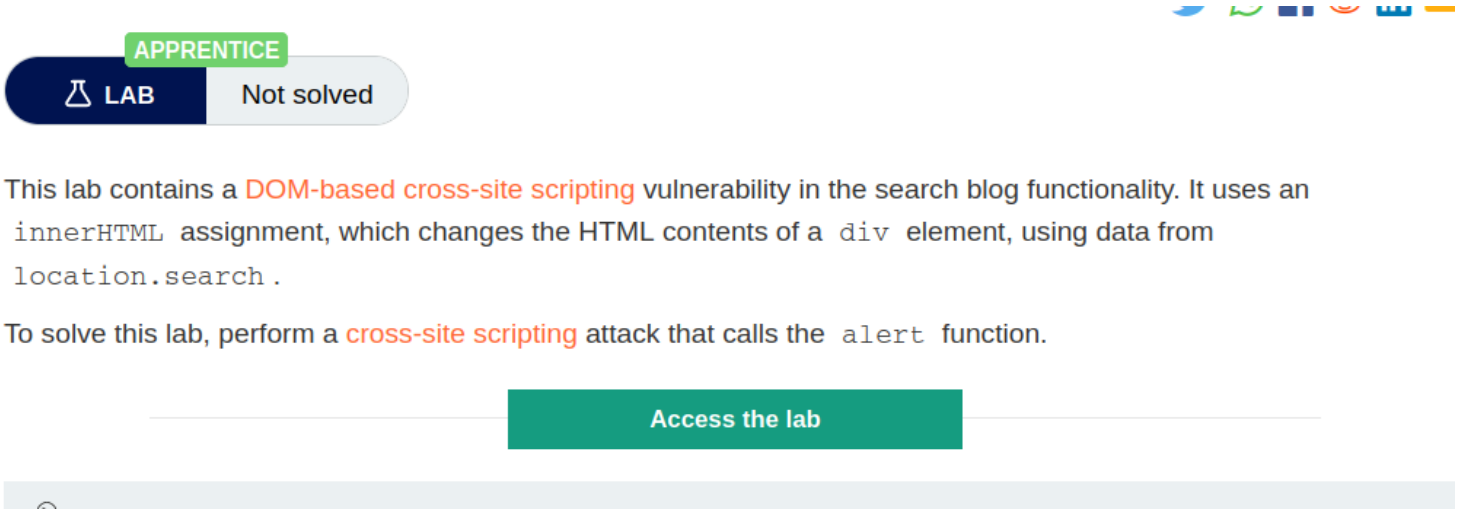
payload :
"><script>alert(document.referrer)</script>



Task completed.

Lab 04

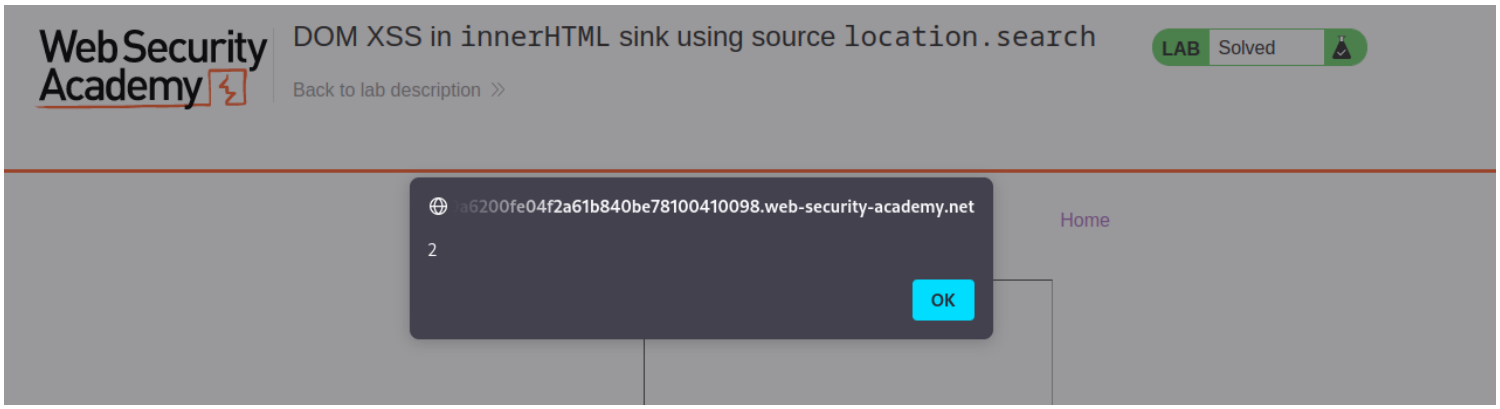
Lab: DOM XSS in `innerHTML` sink using source `location.search`



Use the below mentioned payload into search bar to trigger the xss.

use the payload into search bar:
<img src=x onerror=alert(2)>

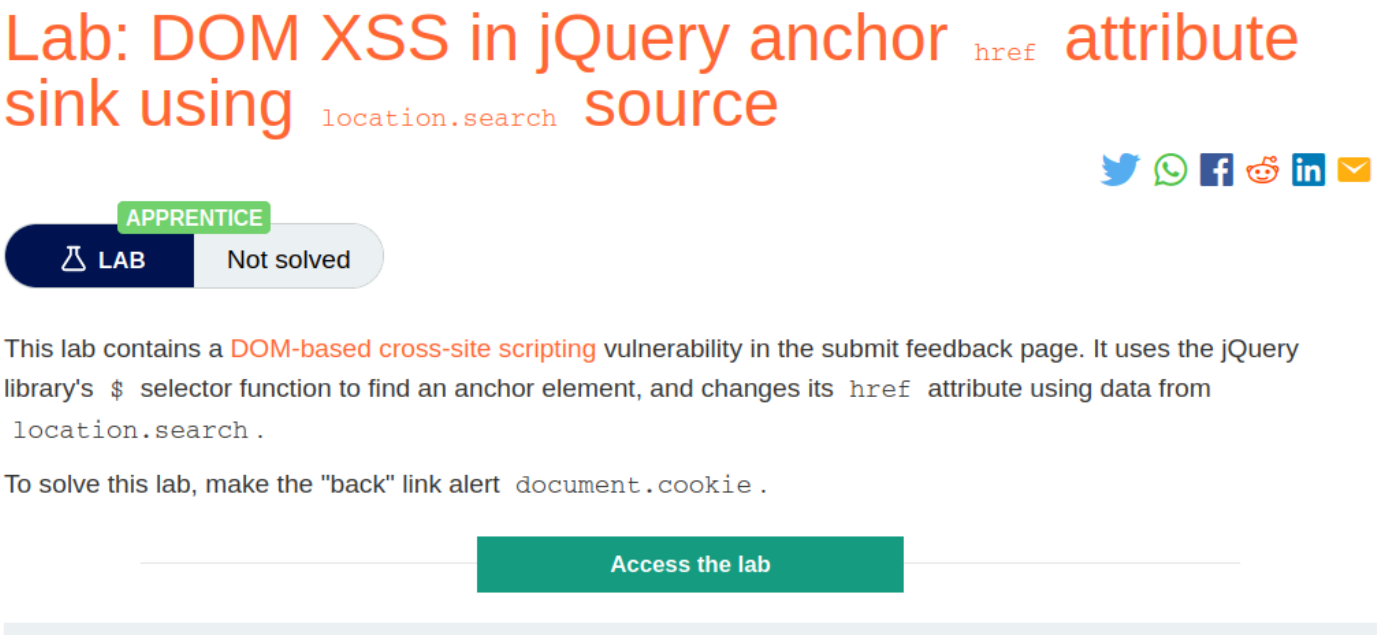
This payload triggers when it will not find the 'img' with the name 'x' , So error will generate and it will execute the event 'onerror' and hit the 'xss alert()'



Task completed.

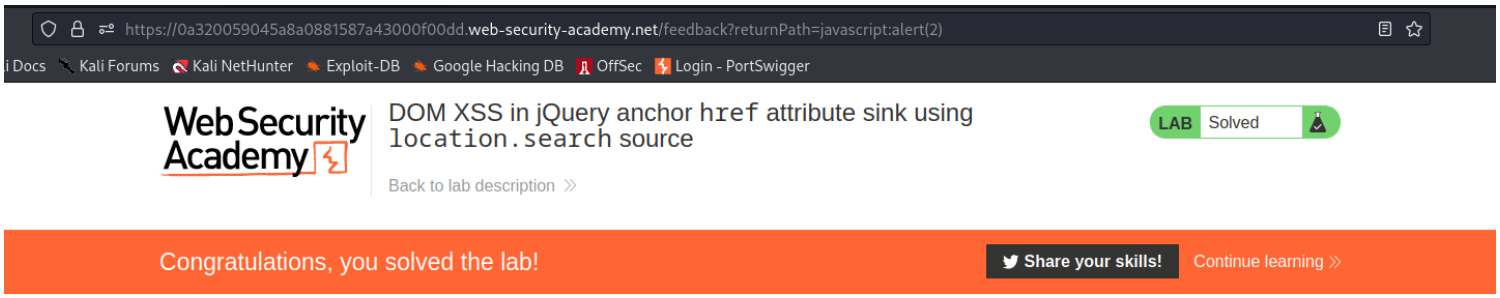
Lab 05

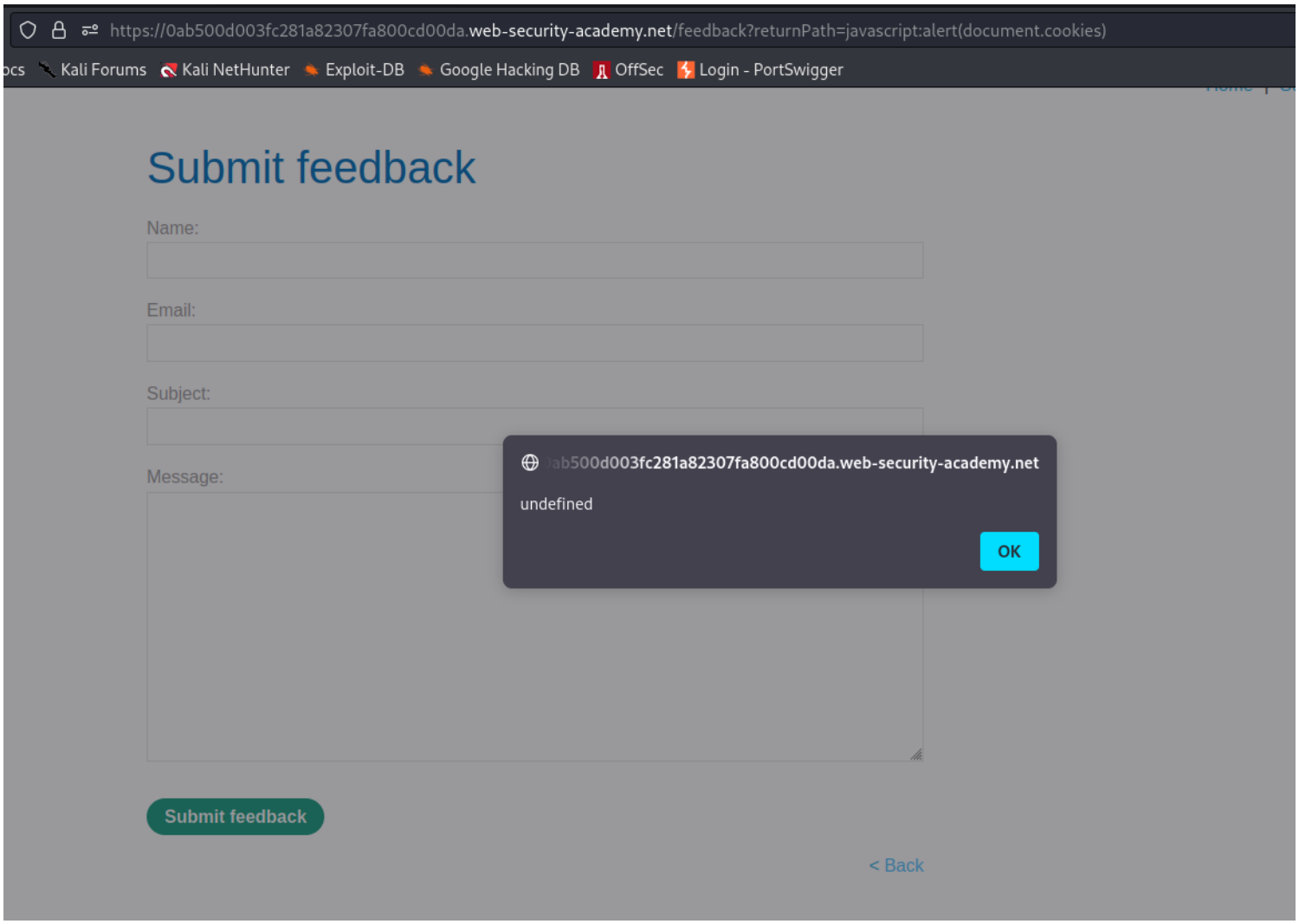
Lab: DOM XSS in jQuery anchor `href` attribute sink using `location.search` source



On the submit feedback page, use the payload in url :
payload :
javascript:alert(2)

Once you click on the ‘back’ link, triggers the xss alert

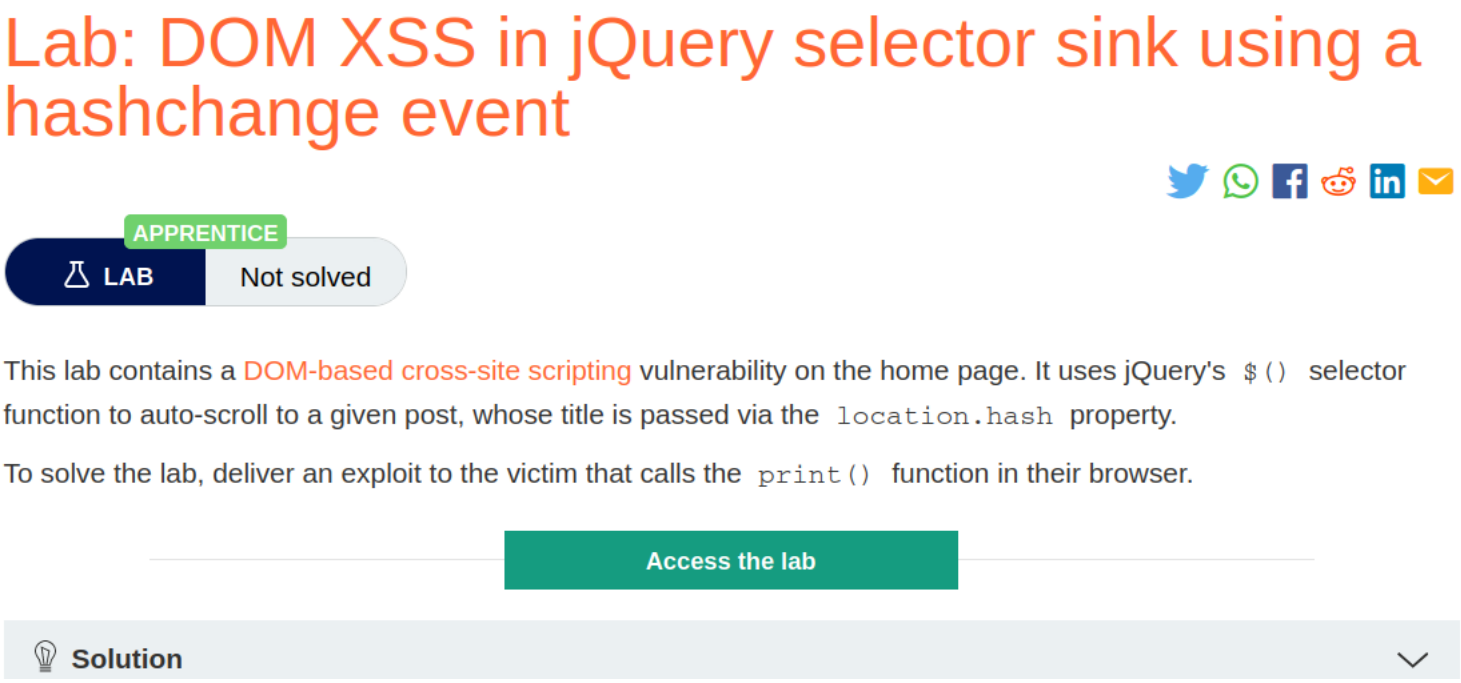




Task completed.

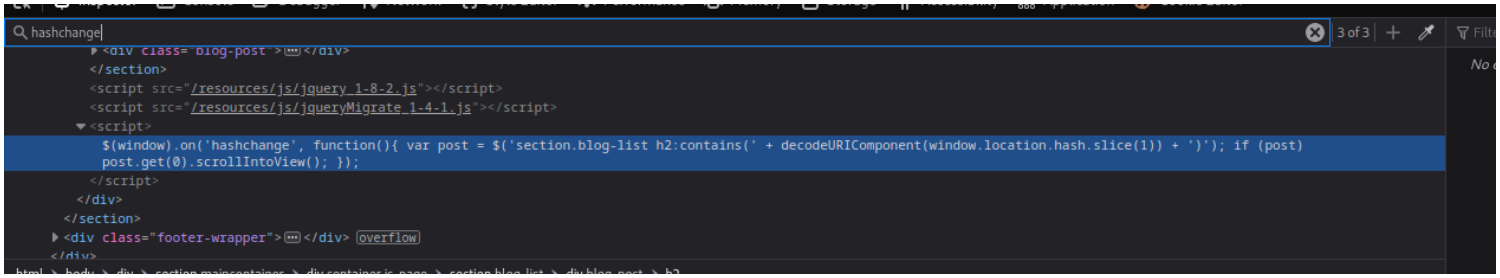
Lab 06

Lab: DOM XSS in jQuery selector sink using a hashchange event



Inspect element on Home page. and Find the 'hashchange' in coding. Hashchange function matches the hash of <h2> , if it contains the same value, then it scrolls down the particular post.

Calls the Post Name header <h2> with # in url and it scrolls down the particular post and display it in browser.

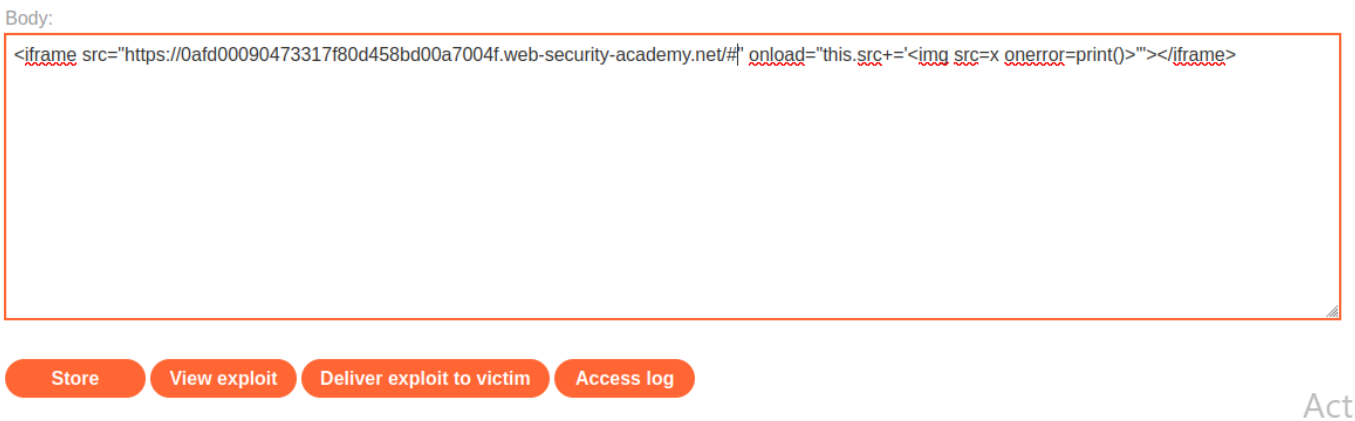


exploit for hashchange:

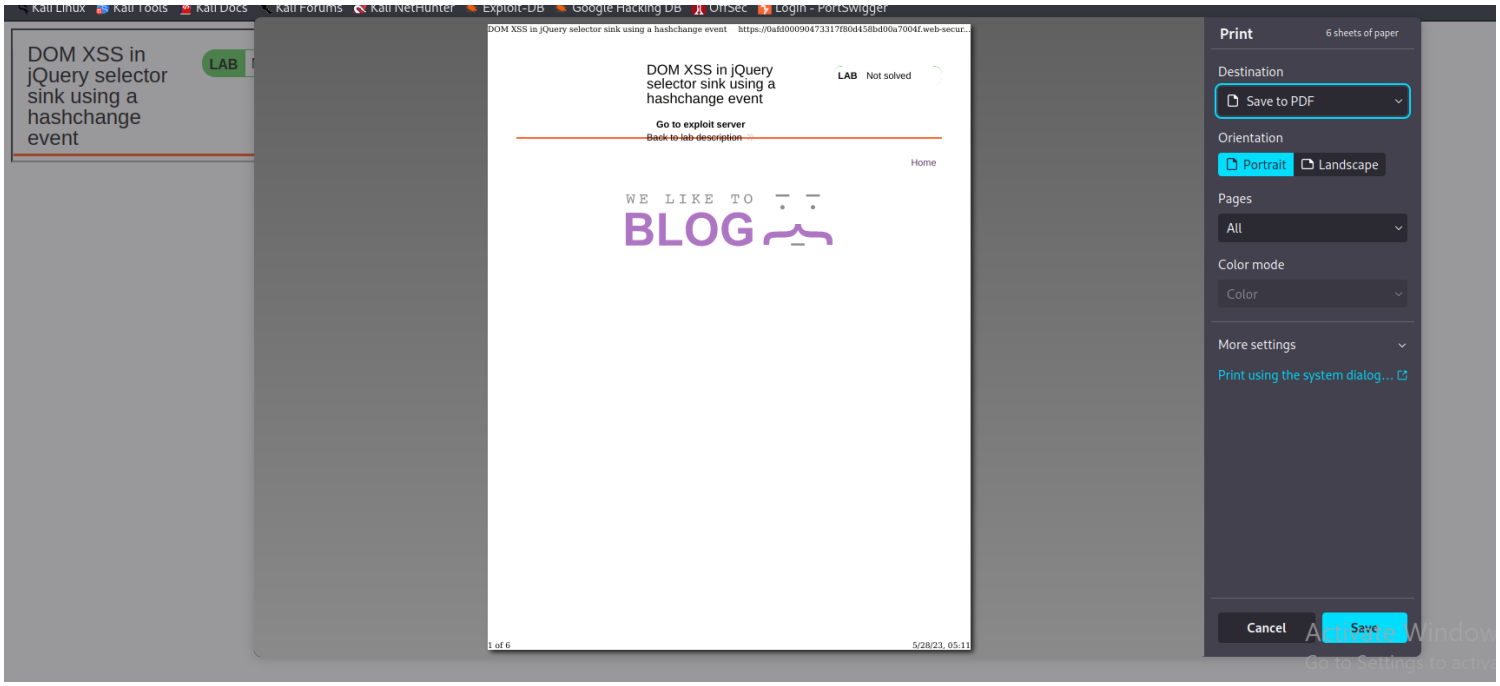
<iframe src="https://0afd00090473317f80d458bd00a7004f.web-security-academy.net/#" onload="this.src+='<img src=x onerror=print()>'"></iframe>

When we put use the # in url, it will trigger the xss payload.

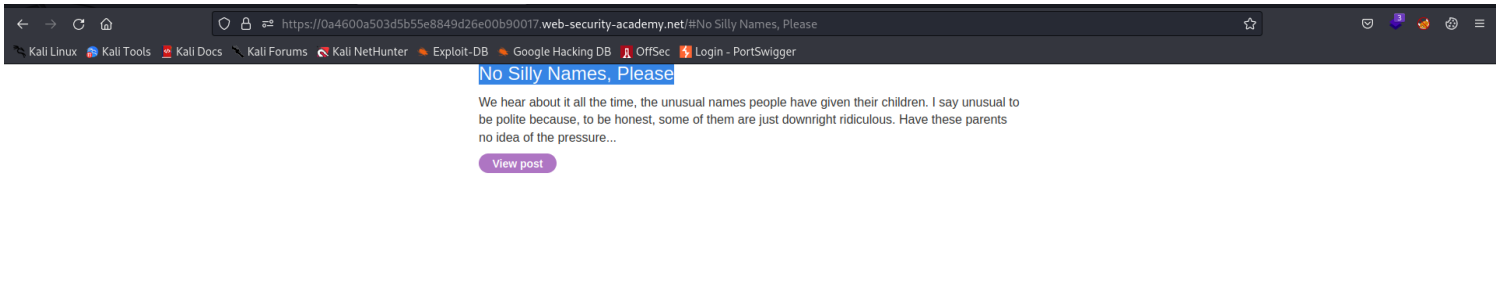
Paste the above payload in body of exploit server and store it and click on 'deliver exploit to victim'

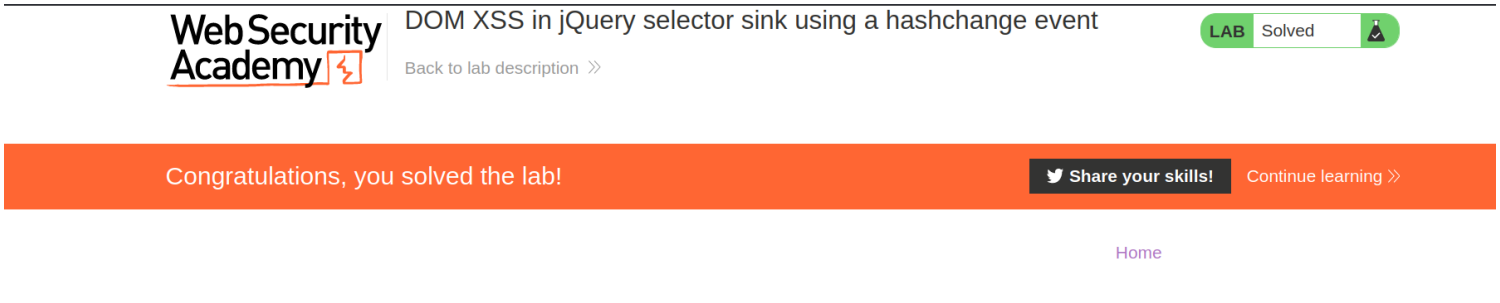


Store the exploit and click on 'view exploit'. It will call the print() function. Just for testing that our payload is working or not.



click on ‘Deliver exploit to victim’.

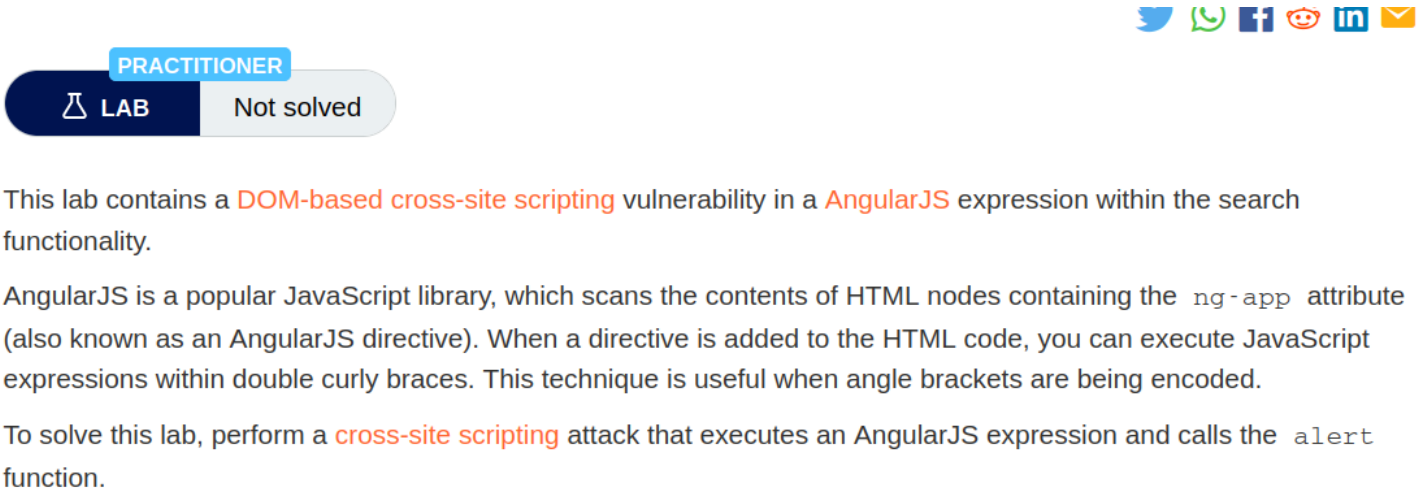




Task completed.

Lab 07

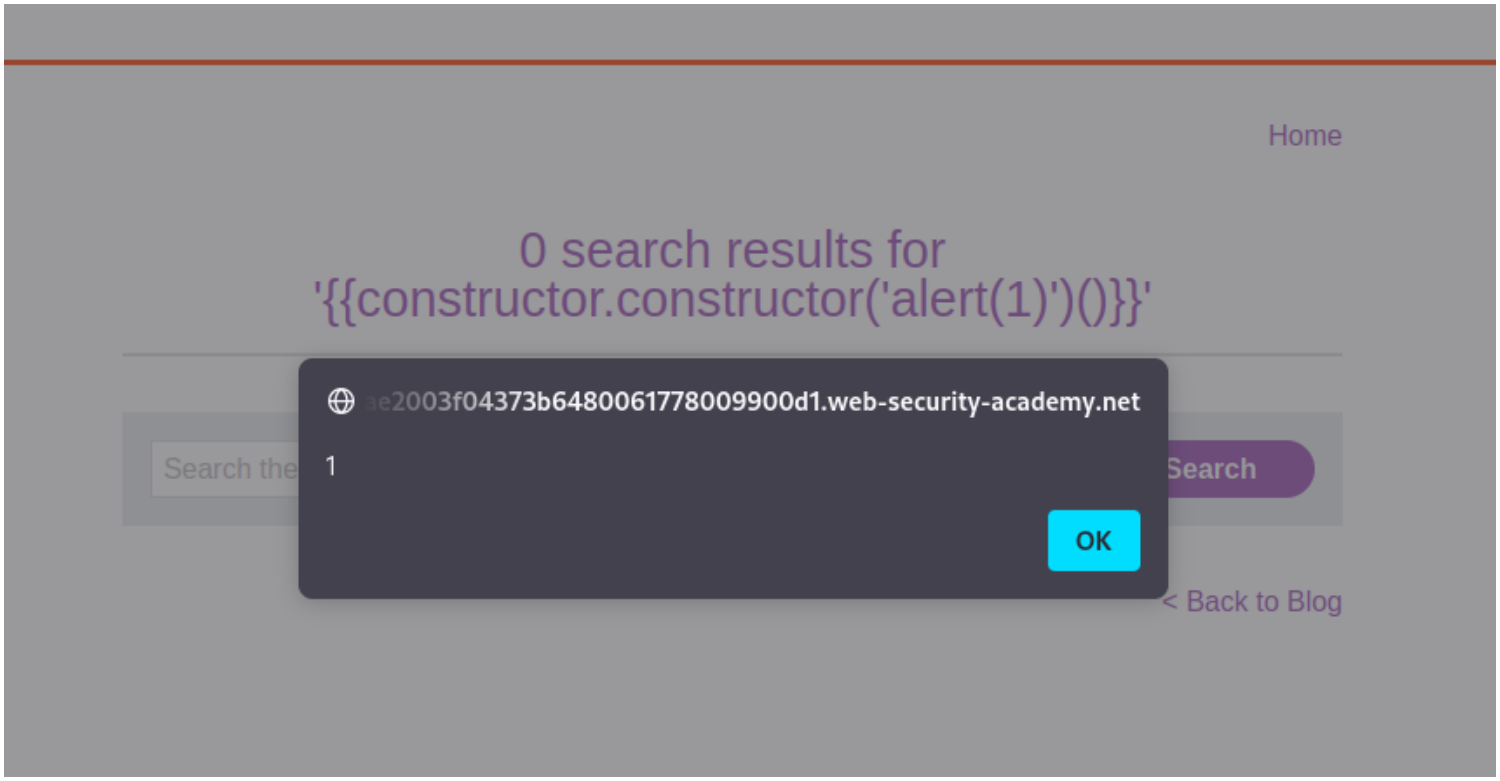
Lab: DOM XSS in AngularJS expression with angle brackets and double quotes HTML-encoded



In the search bar, Paste the below mentioned payload.

Payload angular js:

{{constructor.constructor('alert(1)')()}}


Home
0 search results for
'{{constructor.constructor('alert(1)')()}}'
ae2003f04373b6480061778009900d1.web-security-academy.net
1
OK
Search the
Search
< Back to Blog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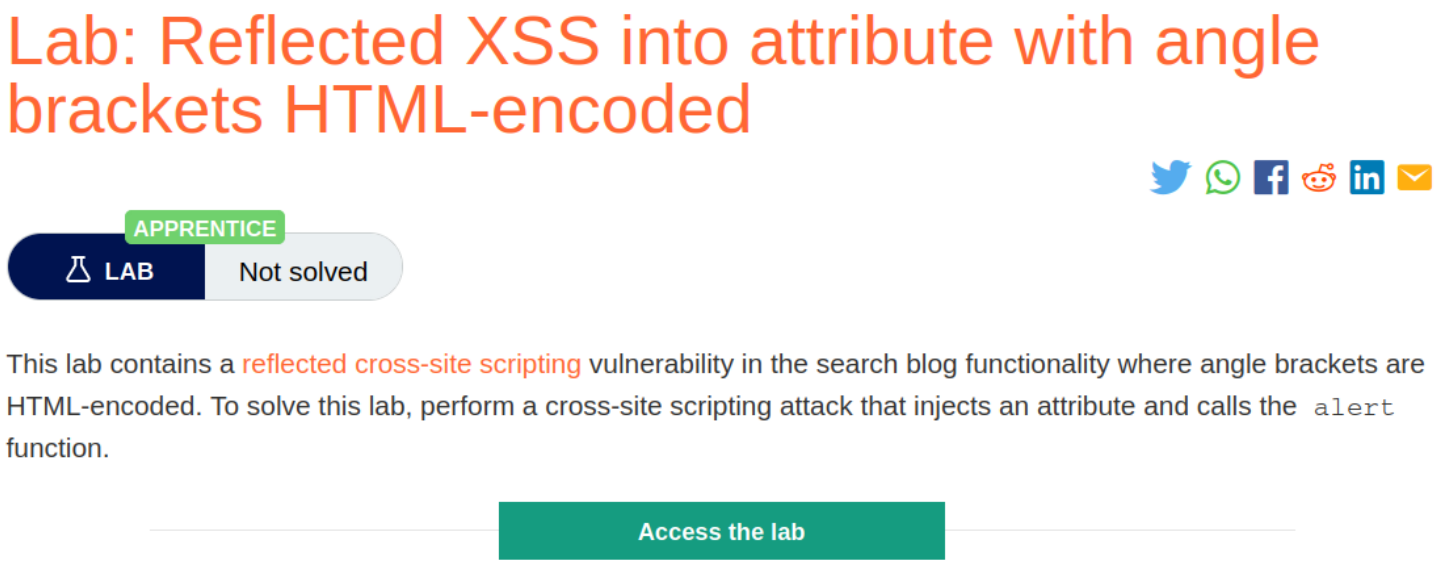
Lab 08

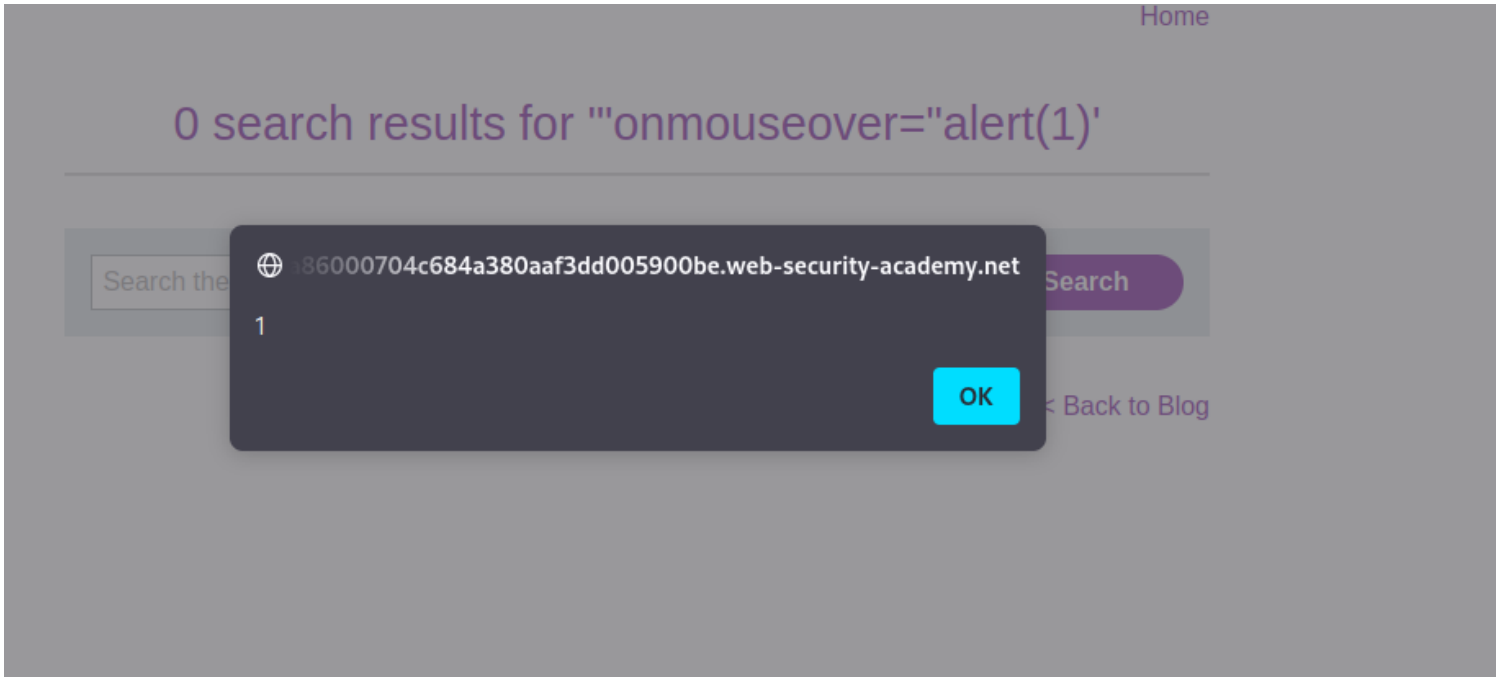
Lab: Reflected XSS into attribute with angle brackets HTML-encoded

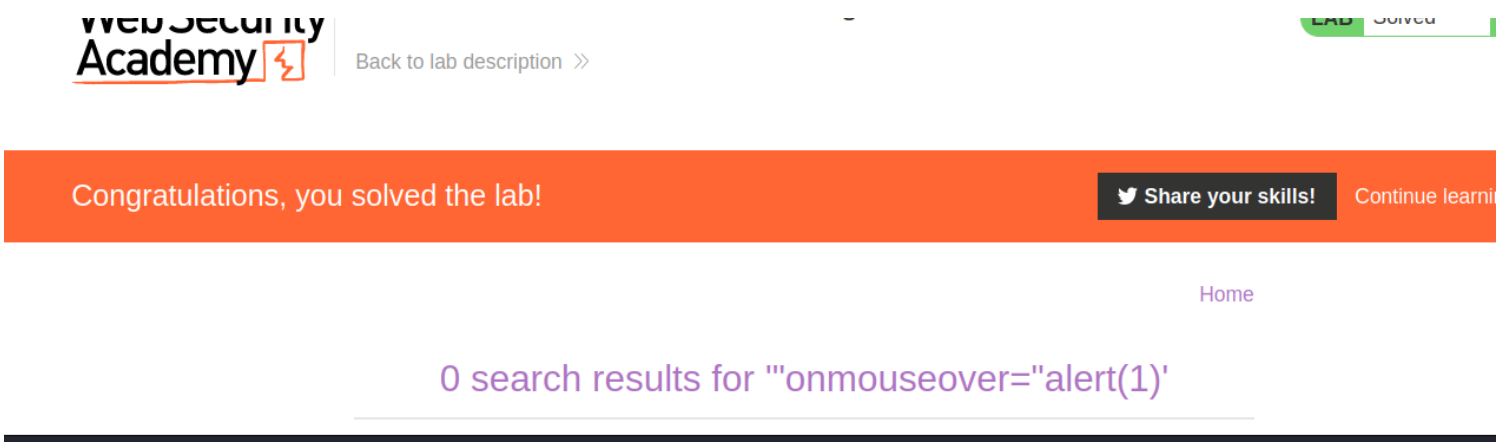


If input is taken as the string with ‘ ’ encoded . You can see this by using inspect element.

payload as input :

```
"onmouseover="alert(1)
```

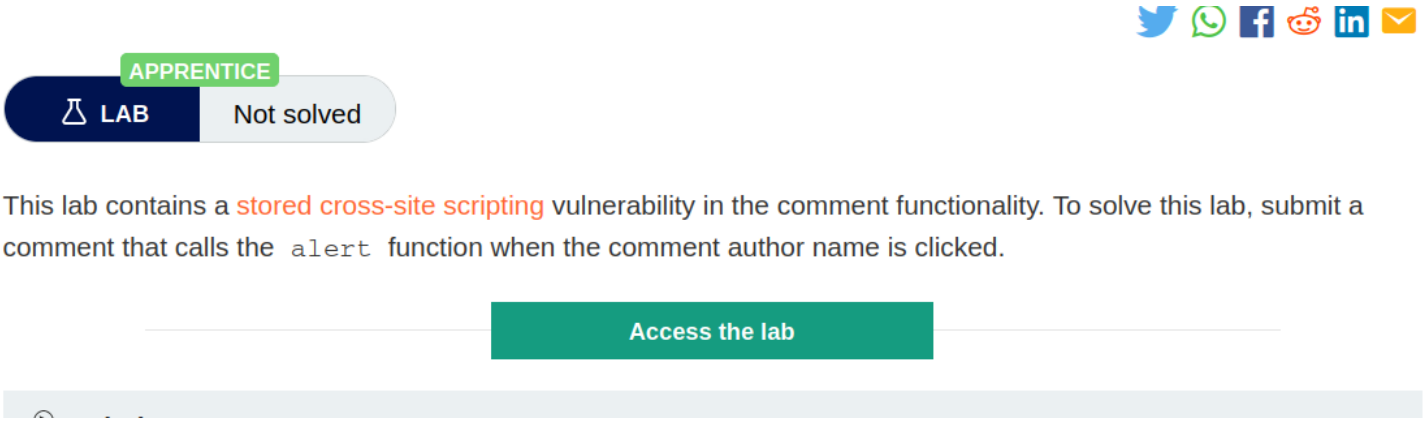




Task completed

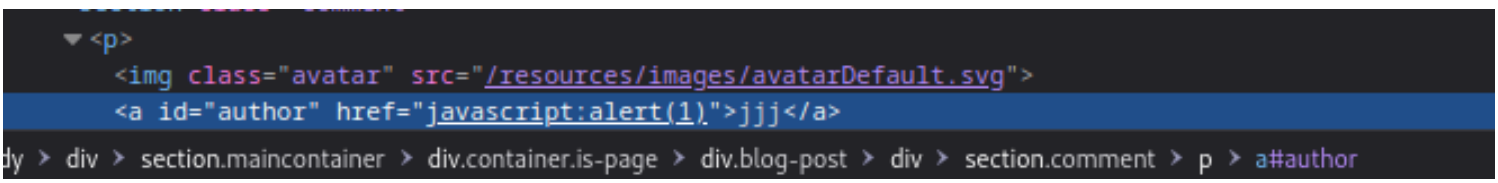
Lab 09

Lab: Stored XSS into anchor `href` attribute with double quotes HTML-encoded



After submitting the comment on any post, When you click on the 'author name' , it hits the website name column. As shown in the below screenshot. Whatever you entered in the website name , it writes everything in href tag. So write the payload in website name column. it inserts into the href and when you clicked on author name, it triggers the xss payload.

payload :
javascript:alert(1)



Web Security Academy

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

LAB Solved

Back to lab description

Congratulations, you solved the lab!

Share your skills! Continue learning

Home

Thank you for your comment!

Your comment has been submitted.

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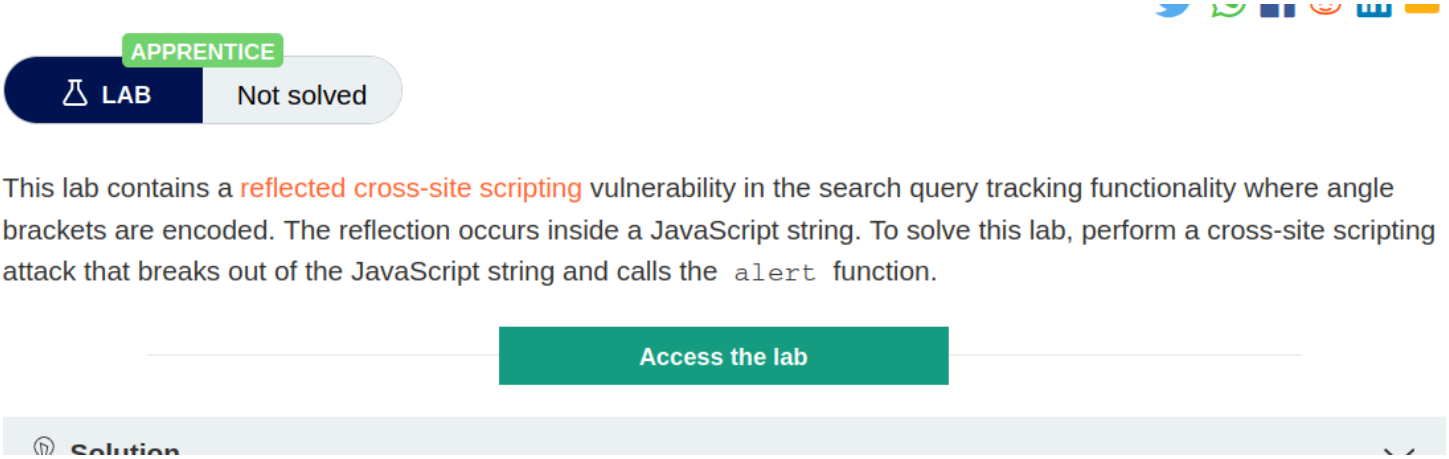
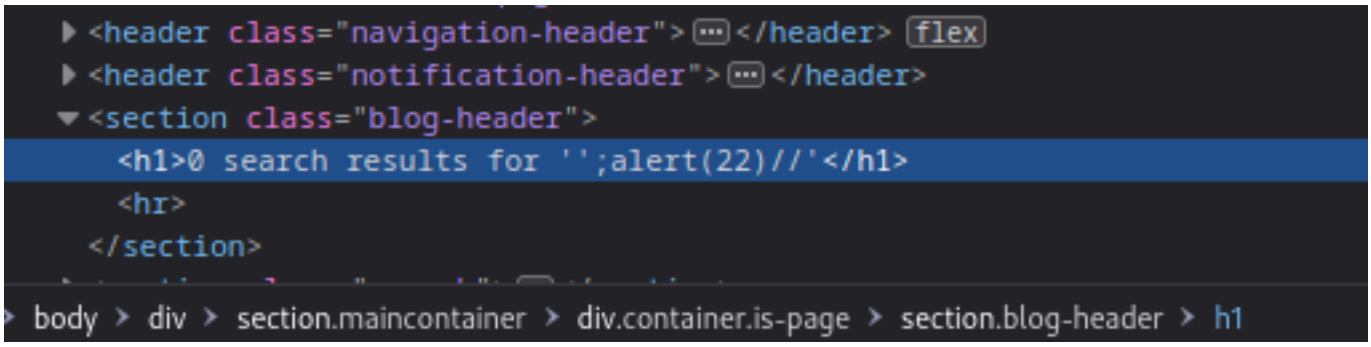
Lab 10

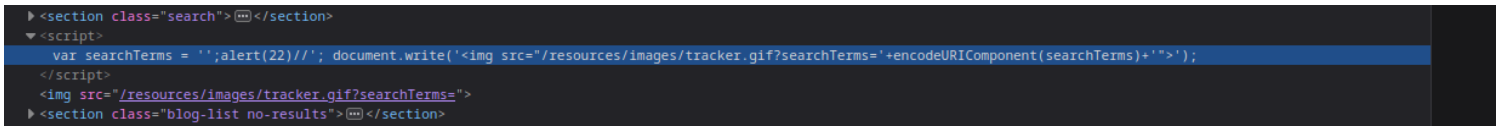
Lab: Reflected XSS into a JavaScript string with angle brackets HTML encoded



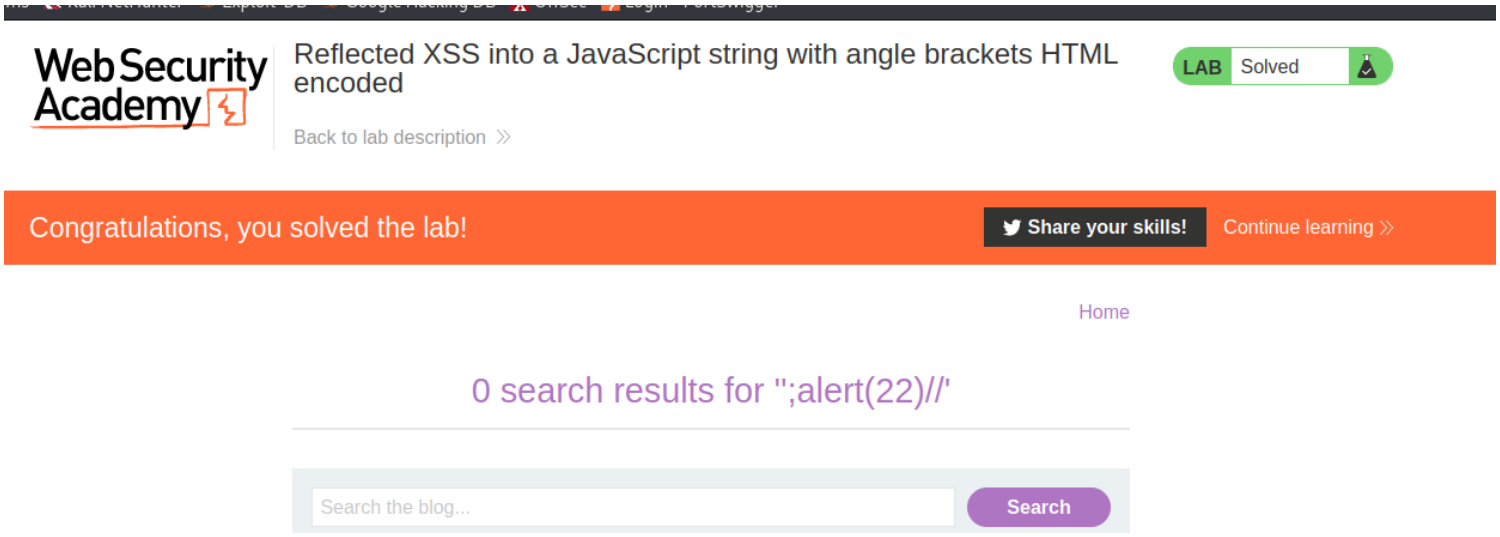
whatever inserting into the search string, web application is treating this as a string enclosed into ‘’.
So manually close the string and end the query with ; before typing the payload

payload (as search string):
';alert(22)//





payload inserted into the query where search term is called. So it triggers the alert(22)



Task completed.