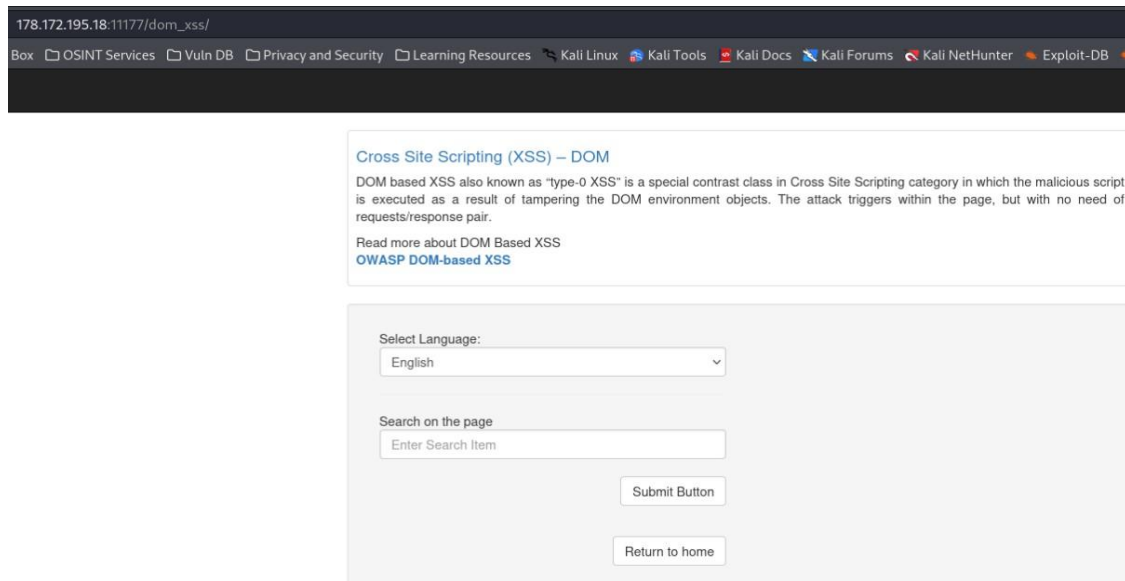


Web Application Security Testing -> **DOM XSS, Reflected XSS, Stored XSS**

- Web Application Security Testing -> **DOM XSS, Reflected XSS, Stored XSS**
 - **DOM XSS**
 - **Reflected XSS**
 - **Stored XSS**

DOM XSS

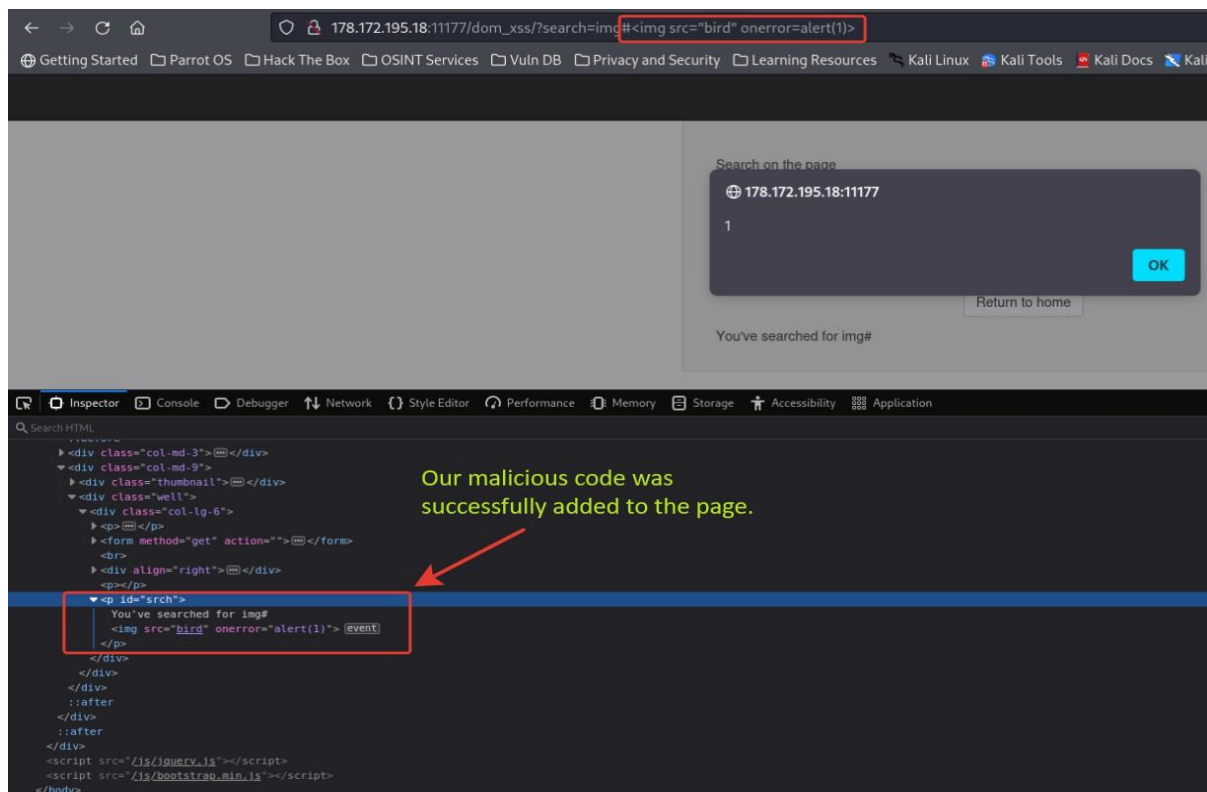


Solution

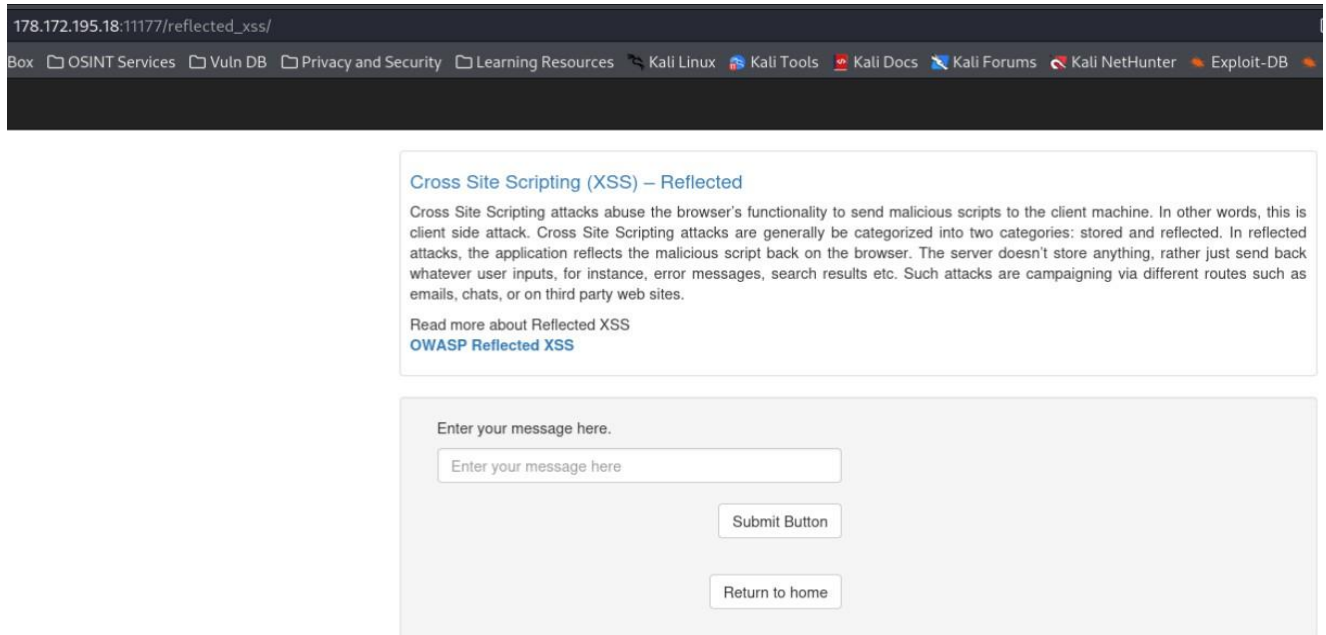
1. Run the task.
2. Enter any search query (e.g.: `img`)
3. Press the `[Enter]` button.
4. To insert malicious code into the DOM, you need to use an anchor tag (`#`) and then add ``.
5. Press the `[Enter]` button.

NOTE: After executing the search script, the malicious code will be included and stored inside the html page.

6. To check if malicious code has been included in the html code:
 1. Press the `[F12]` button (to open the developer toolbar).
 2. Go to the "Inspector" tab.
 3. Find the `<p id="srch">` tag.

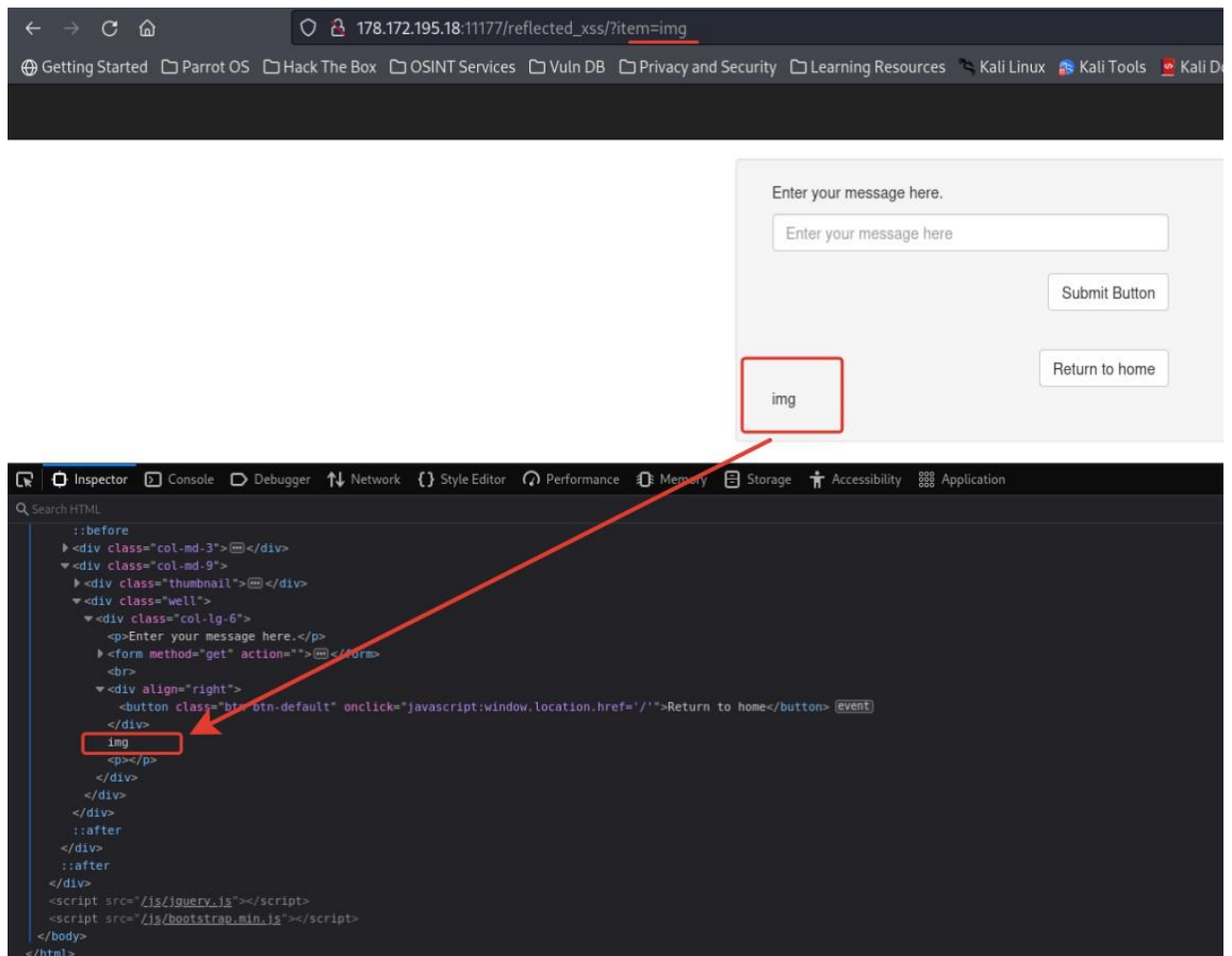


Reflected XSS



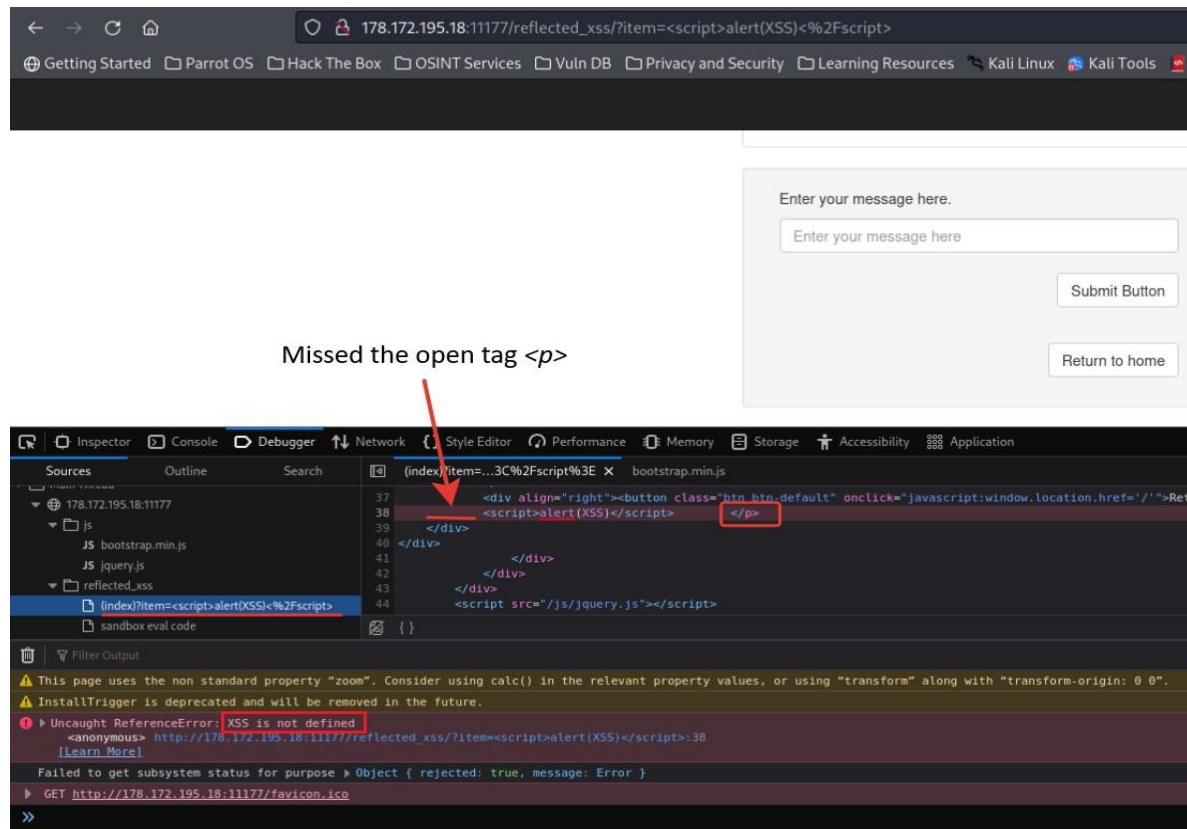
Solution

1. Run the task.
2. Enter any search query (for example: *img*)
3. Click [Submit Button].



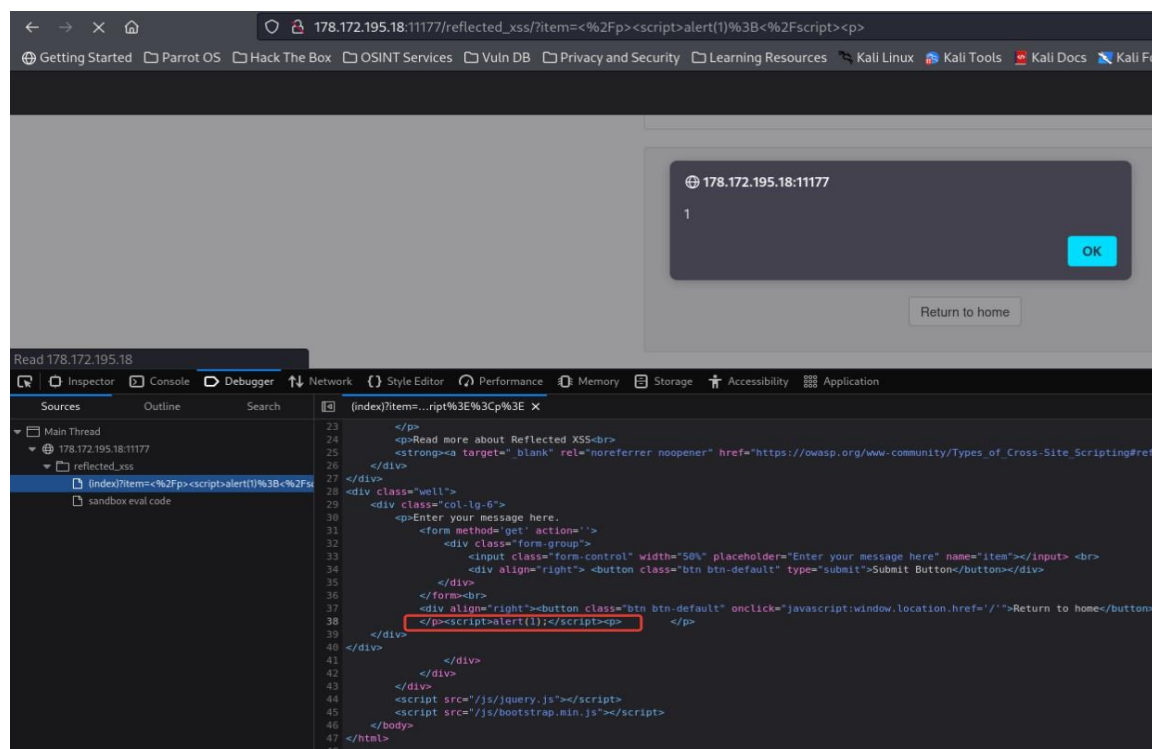
NOTE: As we can see, our search query has been inserted into the page.

4. Type `<script>alert(XSS)</script>` and click [Submit Button] to insert the malicious code.

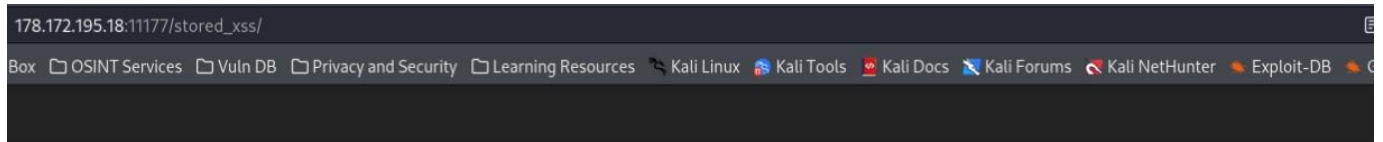


Something is going wrong. Let's see what happened.

5. Press the [F12] button (to open the developer toolbar).
6. Go to the "Debugger" tab.
7. Expand all branches of the "Sources" menu.
8. Here we found the file (index).
9. Our code was added, but we missed the open tag `<p>` and "XSS" is not supported here.
10. Let's change our code to `</p><script>alert(1)</script></p>`
11. Click [Submit Button].
12. Malicious code works.



Stored XSS



Cross Site Scripting (XSS) – Stored

Stored Cross Site Scripting attacks happen when the application doesn't validate user inputs against malicious scripts, and it occurs when these scripts get stored on the database. Victim gets infected when they visit web page that loads these malicious scripts from database. For instances, message forum, comments page, visitor logs, profile page, etc.

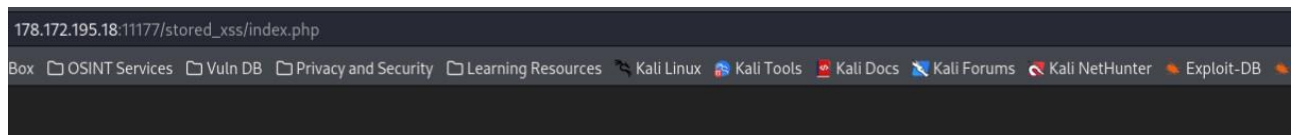
Read more about Stored XSS

[OWASP Stored XSS](#)

Please input username and password to create new account or login to existed one

Solution

1. Run the task.
2. Enter Username: **Violet** and Password: **vpass**.
3. Press the **[Submit]** button.



Cross Site Scripting (XSS) – Stored

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Read more about Stored XSS

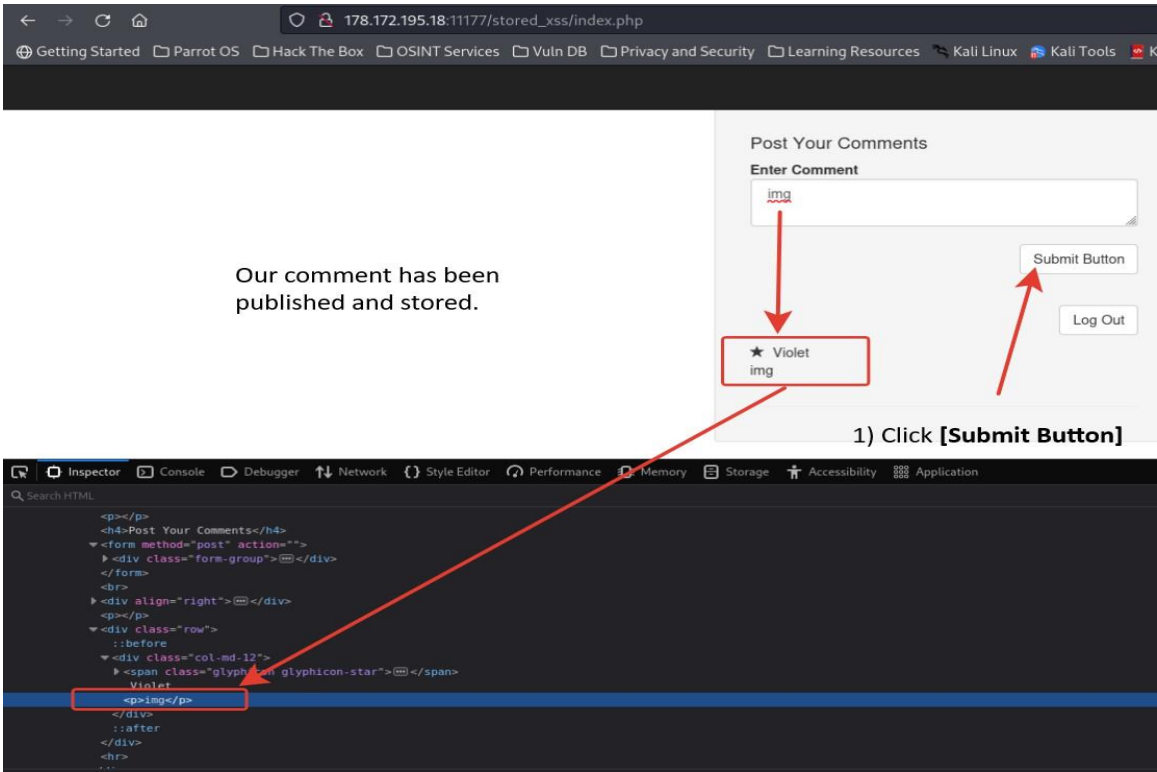
[OWASP Stored XSS](#)

Please input username and password to create new account or login to existed one

1) Enter Username: "**Violet**"
and Password: "**vpass**"

2) Press the **[Submit]**
button to login

4. Enter any comment (e.g.: **img**)
5. Click **[Submit Button]**.



Our comment has been stored and published.

- 6. Type `</p><script>alert(1);</script><p>` and click [Submit Button] to store the malicious code.
- 7. Malicious code is executed and stored. Everyone who visits this page will encounter this.

