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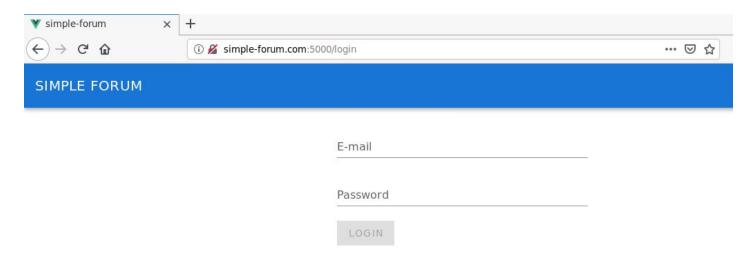
TOOL



Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

Step 1: Interacting with the Forum webapp.

When the lab starts up, the webapp opens up in the browser:

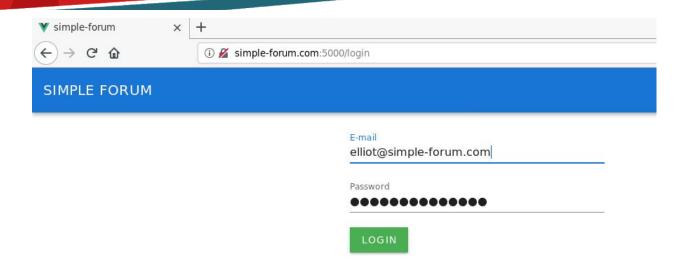


Login into the forum.

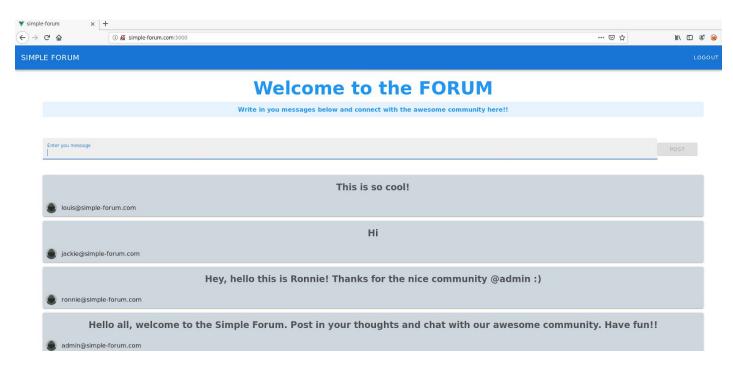
Login into the forum using the provided credentials:

Email: elliot@simple-forum.com

Password: elliotalderson



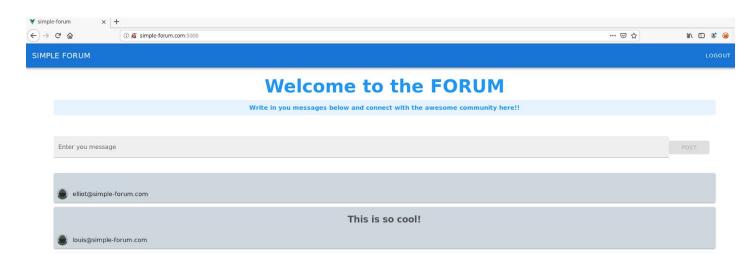
After login the following screen appears:



Step 2: Perform XSS Attack on the Forum.

Posting XSS payload on the forum:

Payload: <script>alert(1234);</script>



Notice that a new message entry appears on the top.

But the XSS wasn't successful (even after refreshing the page).

Inspect the message that appears on the top:

Notice that the payload is there but it is not being executed.

Reason: JavaScript inserted as DOM text will not execute.

References:

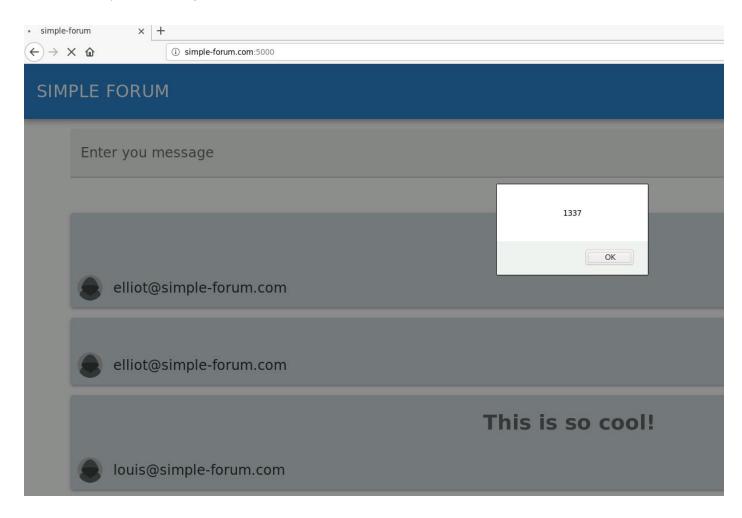
https://stackoverflow.com/questions/4619668/executing-script-inside-div-retrieved-by-ajax/16278107

https://stackoverflow.com/questions/13390588/script-tag-create-with-innerhtml-of-a-div-doesnt-work

Try using the following payload:

Payload:

The above payload would try to get an image from a non-existent source and since that request will fail the payload would get executed!



Notice that after the above payload is sent, after some time, XSS payload gets executed (after the request to load the image failed)!

Conclusion:

Sanitize user input before placing it on a web page. Make sure to encode the content and filter / block malicious content to avoid such issues!

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References:

- 1. OWASP Top 10 (https://owasp.org/www-project-top-ten/)
- 2. XSS (https://owasp.org/www-project-top-ten/OWASP_Top_Ten_2017/Top_10-2017_A7-Cross-Site_Scripting_(XSS))