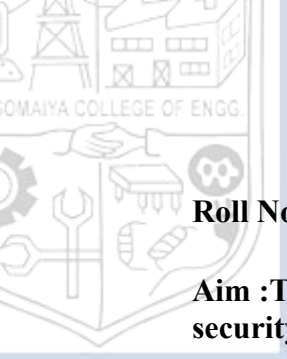




Experiment No. 8

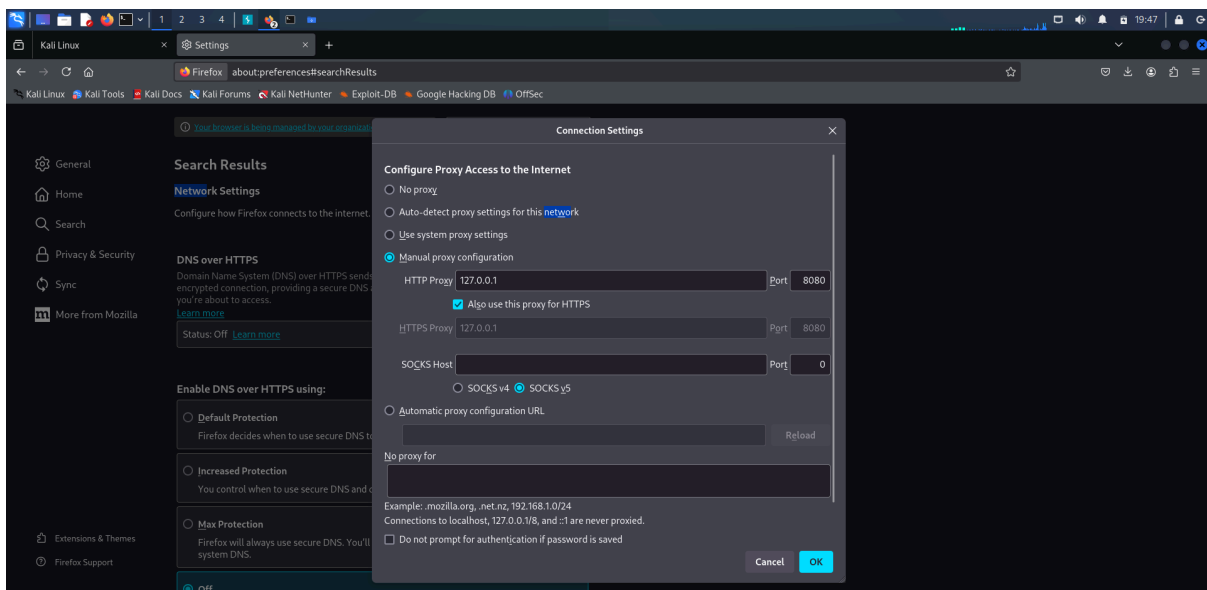
Title: Working with Burp

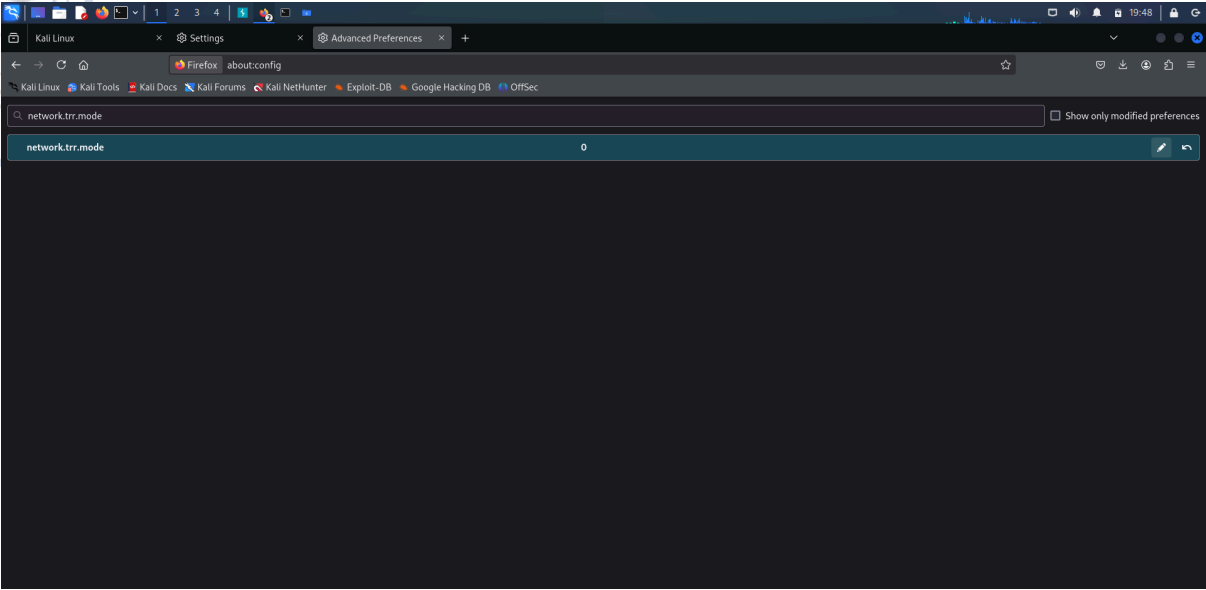
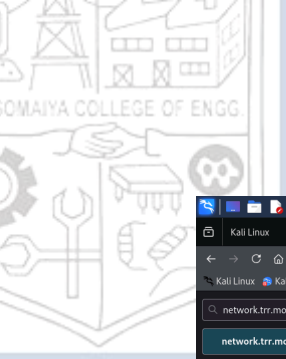
**Roll No.: 16010423076****Experiments No.:8****Aim :To use Burp Suite for intercepting, modifying, and testing web application security.****Resources : Linux Machine, Internet, Browser****Theory:**

Burp Suite is an essential tool for web security testing. It provides functionalities such as intercepting requests, modifying parameters, and performing security scans. This experiment focuses on active testing, including altering requests, performing a passive scan, testing for Cross-Site Scripting (XSS), and simulating weak authentication attacks using Burp Intruder. These techniques help identify vulnerabilities in web applications and strengthen their security.

IMPLEMENTATION AND RESULTS:**1. Configure Firefox to Use Burp Proxy**

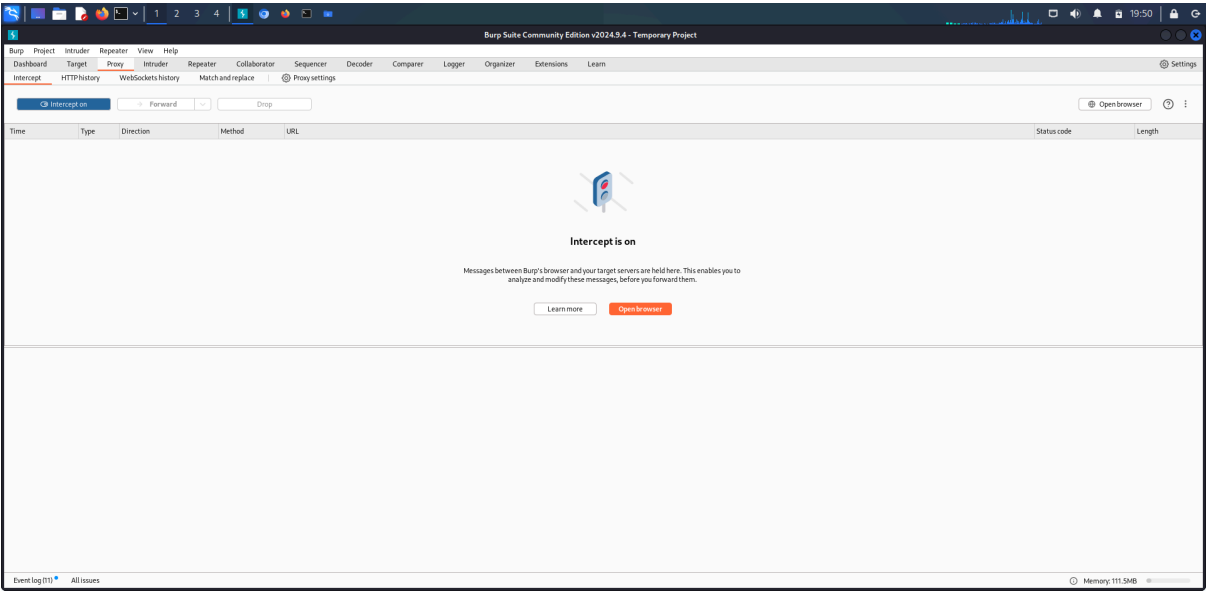
- Set HTTP Proxy to 127.0.0.1 and Port to 8080.

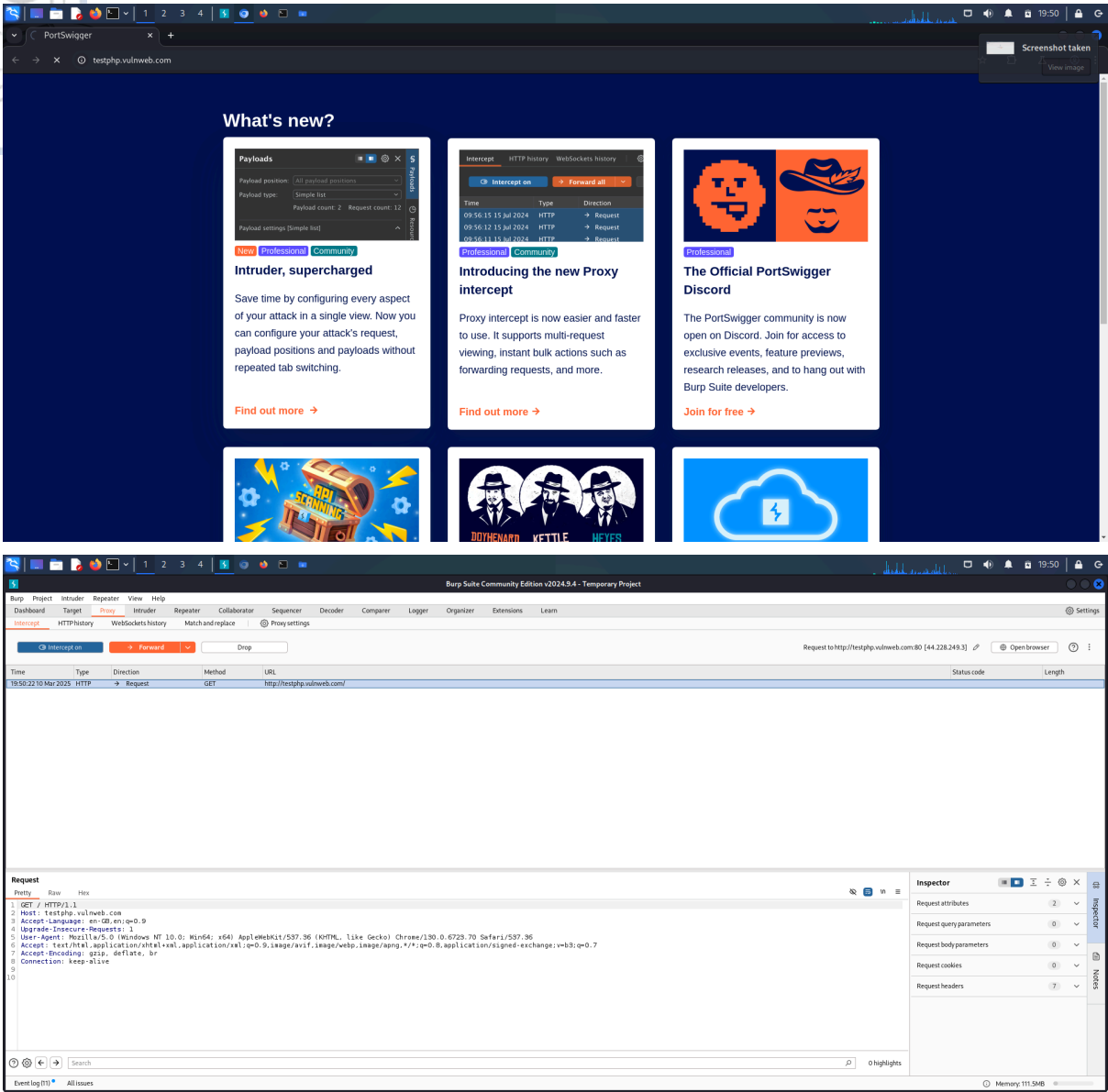
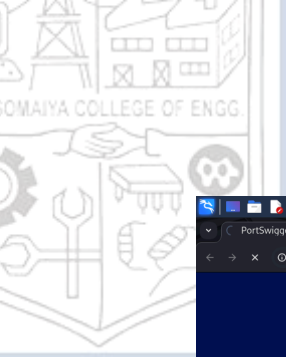
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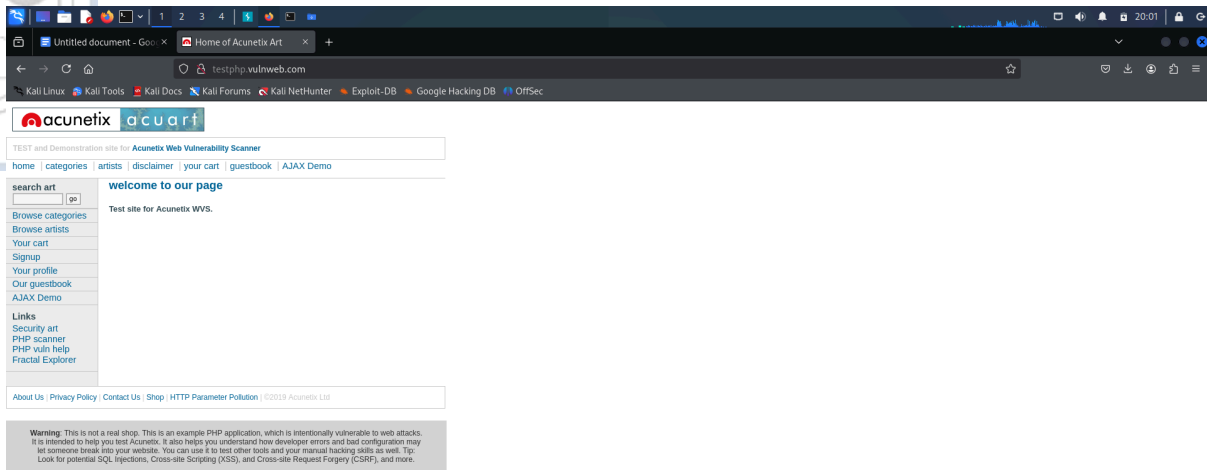


2. Verify Interception Works

- Open Firefox and visit <http://testphp.vulnweb.com/>.
- You should see a request intercepted in Burp Suite.

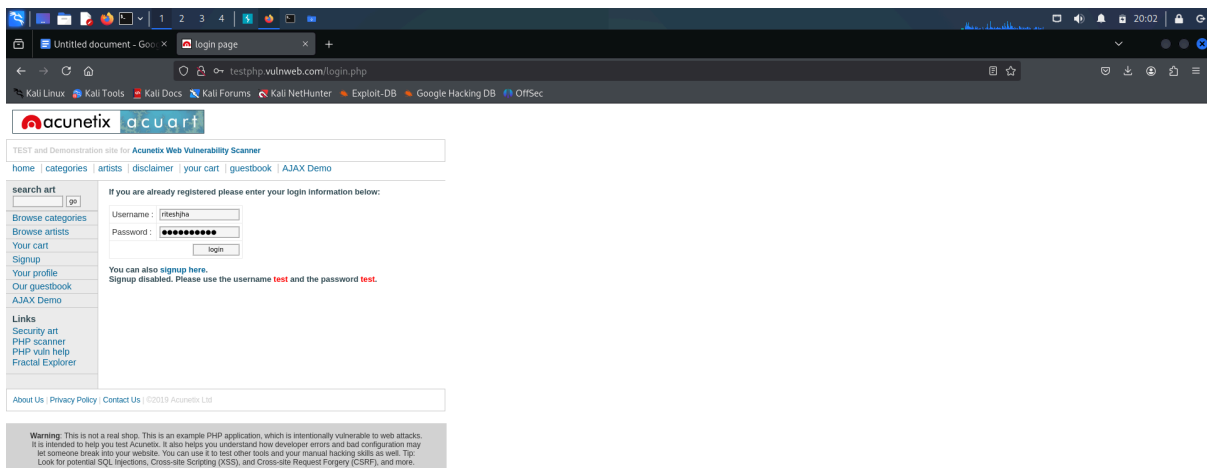


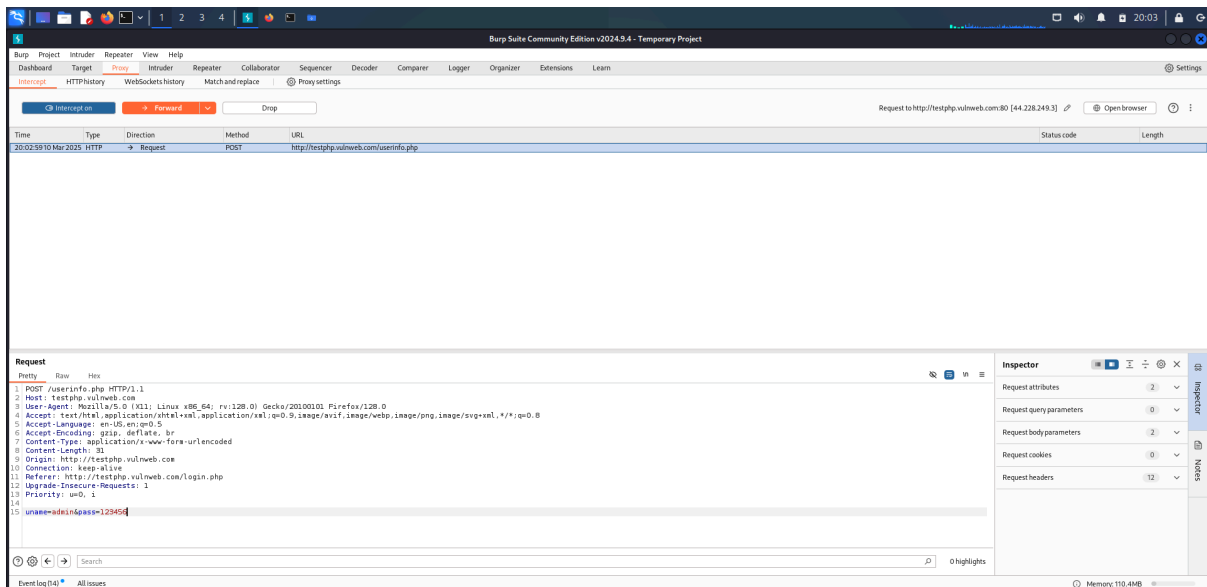
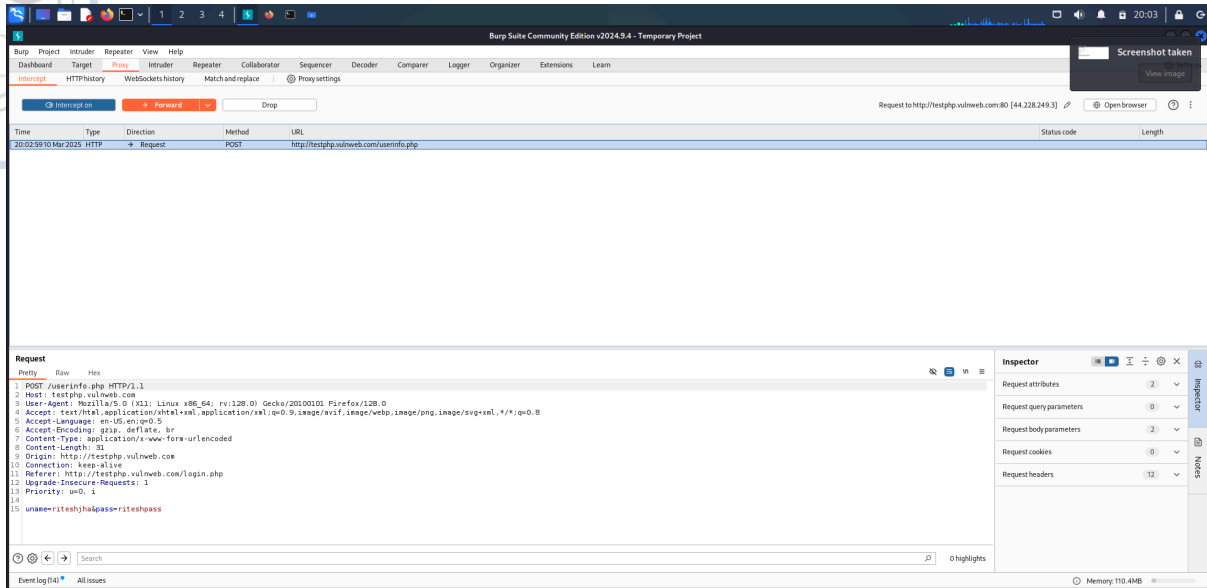




3. Intercept and Modify a Request

- Try to log in with random credentials.
- The request will be intercepted → Modify the request





4. Test for XSS Vulnerabilities

- Find a search box or form input.
- Enter `<script>alert("XSS")</script>` and submit.

Lab 1

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Lab: Reflected XSS into HTML context with nothing encoded

APPRENTICE



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.

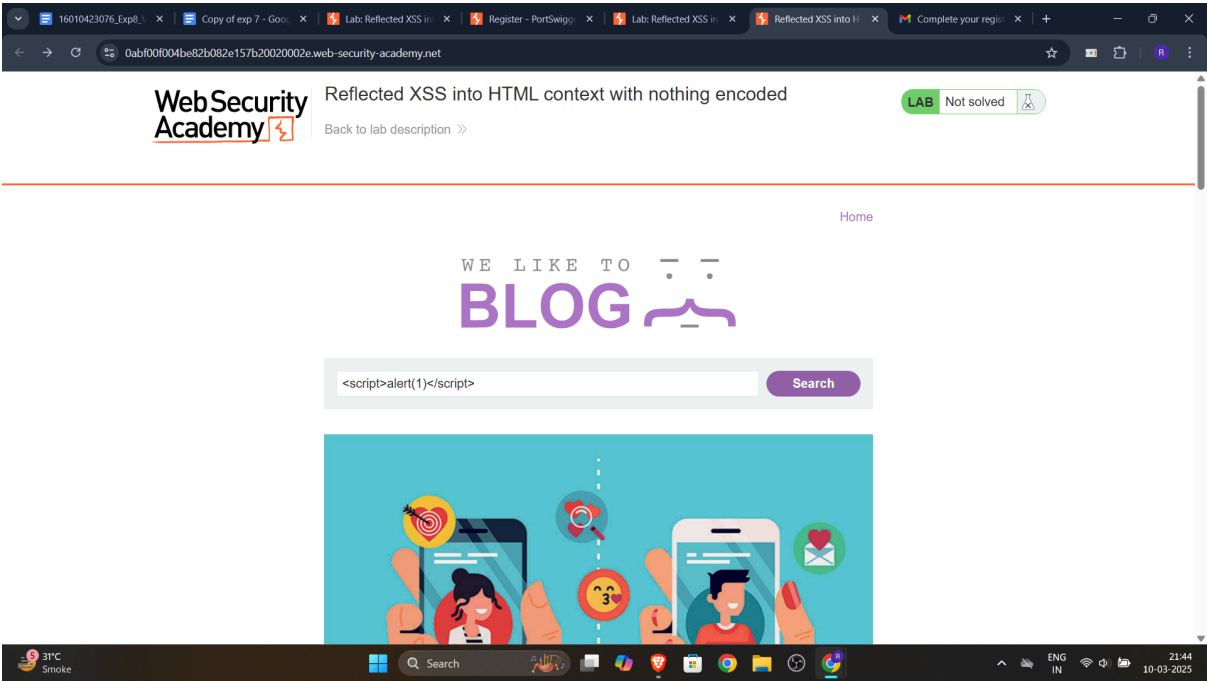
ACCESS THE LAB

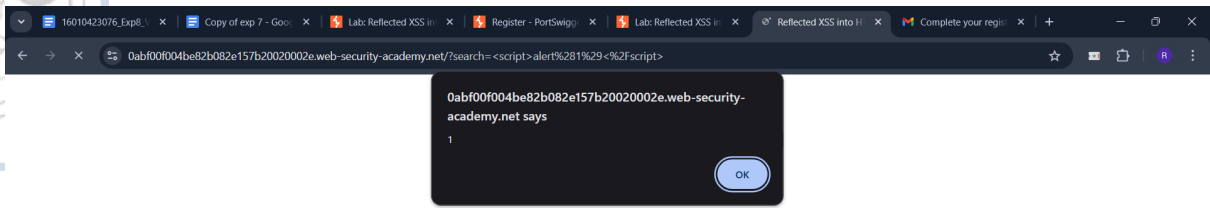
Solution

1. Copy and paste the following into the search box:

```
<script>alert(1)</script>
```

2. Click "Search".





Lab 2

Step 1: Try a Basic XSS Payload

Step 2: Find Allowed HTML Tags using Burp Intruder

Step 3: Find Allowed Event Handlers

Step 4: Create the Final XSS Payload



Lab: Reflected XSS into HTML context with most tags and attributes blocked

PRACTITIONER



This lab contains a reflected XSS vulnerability in the search functionality but uses a web application firewall (WAF) to protect against common XSS vectors.

To solve the lab, perform a cross-site scripting attack that bypasses the WAF and calls the `print()` function.

Note

Your solution must not require any user interaction. Manually causing `print()` to be called in your own browser will not solve the lab.



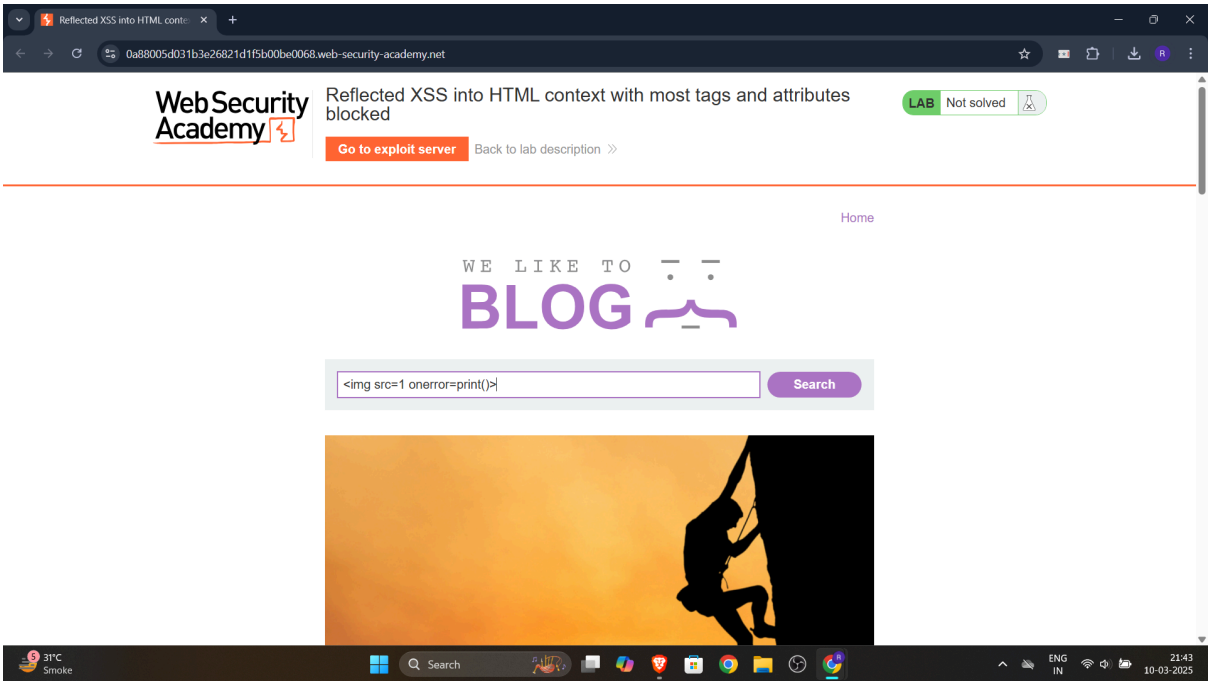
ACCESS THE LAB

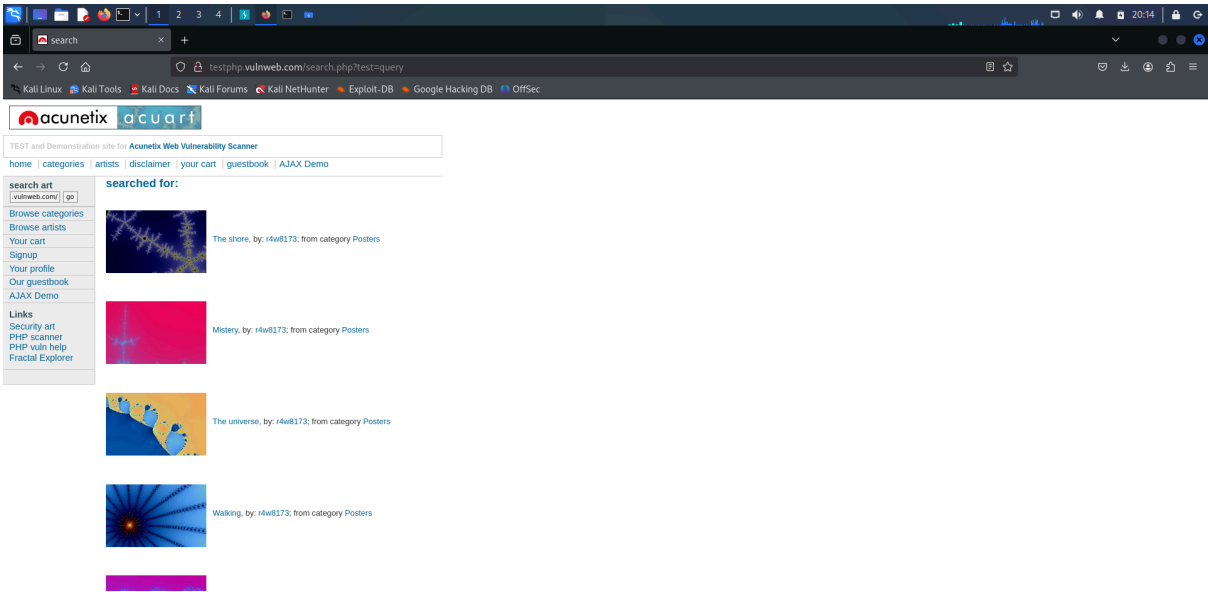
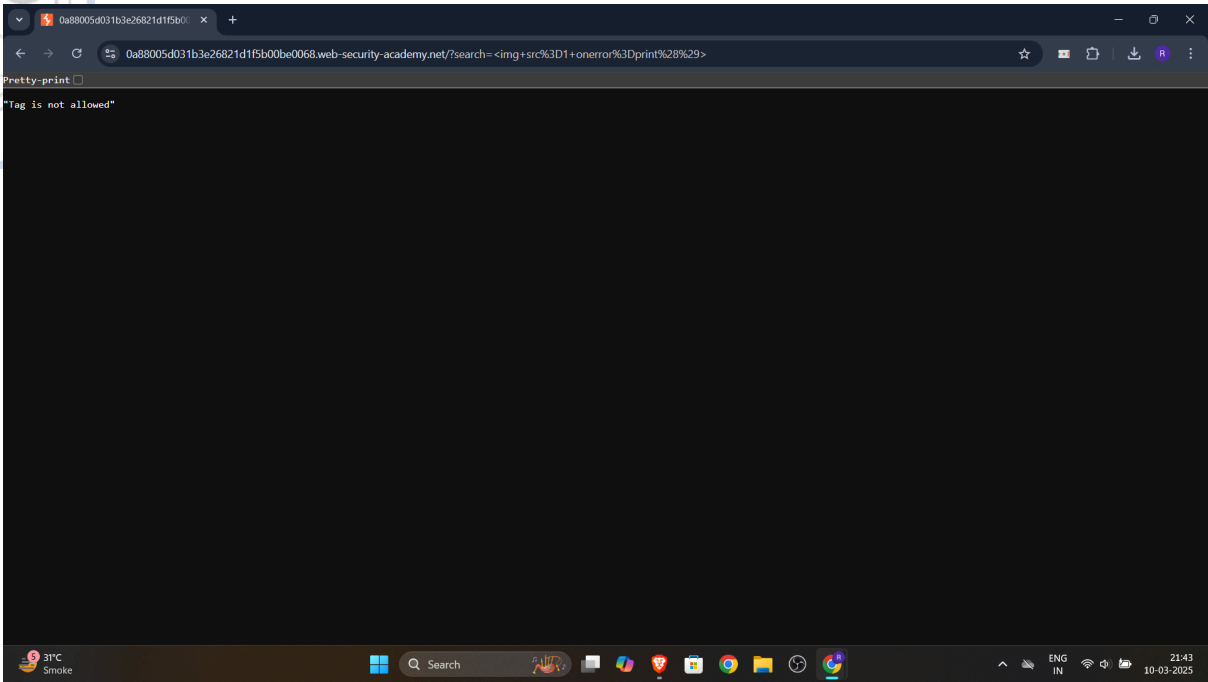
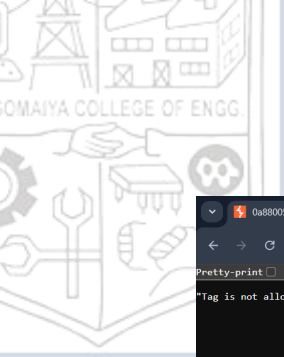


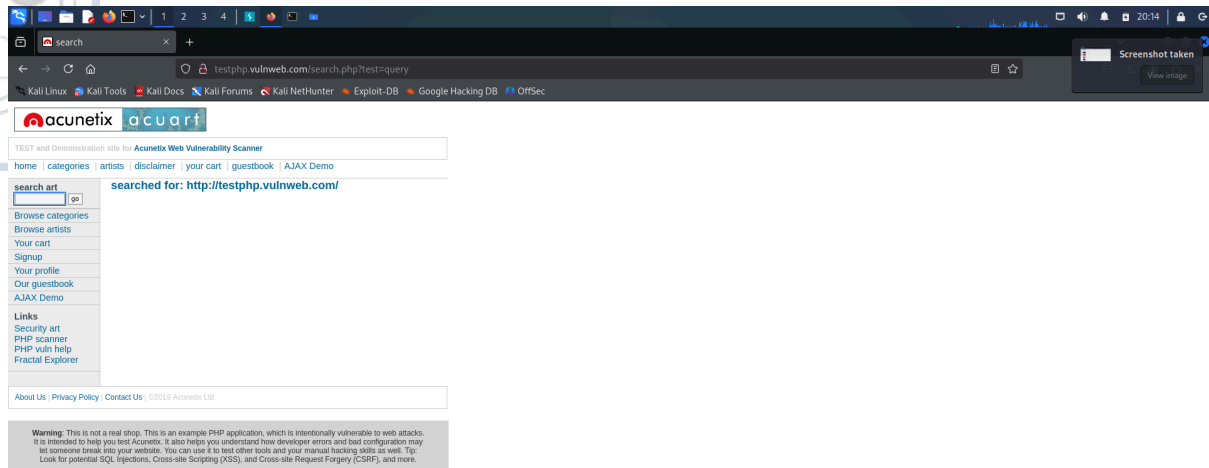
Solution



Community solutions







Outcomes: CO3: Understand attack methodology

Conclusion: (Conclusion to be based on the objectives and outcomes achieved)

From this experiment, I learned how to actively test web applications using Burp Suite. By intercepting and modifying HTTP requests, scanning websites, and attempting authentication bypass, I understood how attackers exploit vulnerabilities. This experiment provided hands-on experience in ethical hacking techniques and reinforced the importance of securing web applications against common attacks.

Grade: AA / AB / BB / BC / CC / CD /DD

Signature of faculty in-charge with date

REFERENCES:

<https://portswigger.net/burp/documentation>

<https://www.mozilla.org/en-US/firefox/new/>

<http://testphp.vulnweb.com>

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