

CLIENT-SIDE TESTING

Aim

To perform client-side testing using Burp Suite to identify and exploit a Reflected Cross-Site Scripting (XSS) vulnerability.

Tools

- **Burp Suite** (on Kali Linux)
 - **Burp's built-in browser**
 - **Vulnerable Target Application:** Based on your screenshots, the target is the "Vulnerability: Reflected Cross Site Scripting (XSS)" page with the "What's your name?" input field. The URL for this page is https://pentest-ground.com:4280/vulnerabilities/xss_r/.
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Phase 1: Setup and Browser Launch

You are using Burp's built-in browser, so this process is very simple.

1. **Open Burp Suite:** Launch the application from your Kali Linux menu.
 2. **Go to the Proxy Tab:** Click the **Proxy** tab at the top.
 3. **Go to the Intercept Sub-tab:** Click the **Intercept** sub-tab.
 4. **Open Burp's Browser:** Click the "**Open Browser**" button. A new browser window will open. This browser is already pre-configured to work with Burp Suite, so no manual proxy or certificate setup is needed.
-

Phase 2: Intercept and Analyze the Request

In this phase, you will capture the request that sends your test payload.

1. **Turn on Intercept:** In your main Burp Suite window, make sure the "**Intercept is on**" button is pressed.
2. **Visit the Target Page:** In the **Burp Browser** window (the one you just opened), navigate to your target URL: https://pentest-ground.com:4280/vulnerabilities/xss_r/
3. **Inject XSS Payload:** The page will load, showing the "What's your name?" input field. In this text box, type your test payload:

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

4. **Submit and Capture:** Click the "**Submit**" button on the webpage.
 5. **Send to Repeater:**
 - Switch back to your main Burp Suite window. The **Intercept** tab will be flashing, holding the request.
 - You will see the raw request data. **Right-click** anywhere on this text.
 - From the context menu, select "**Send to Repeater**".
 6. **Turn Off Intercept:** Click the "**Intercept is on**" button again to turn it off. This will allow your browser to load pages normally again.
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Phase 3: Test Payloads in Repeater

Repeater is the best tool for this, as you can modify and resend the request many times without reloading the browser.

1. **Go to Repeater:** Click the **Repeater** tab in Burp Suite. You will see the request you just sent.
 2. **Send Request:** On the left side (Request panel), click the "**Send**" button.
 3. **Analyze Response:**
 - o The server's full response will appear in the panel on the right.
 - o Click the "**Pretty**" tab to get a formatted view of the HTML.
 - o Look through the HTML for your payload. You should find your script included in the page's body, like `Hello <script>alert(1)</script>`.
 - o This confirms the server is "reflecting" your input without cleaning or "sanitizing" it.
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Phase 4: Confirm Execution (The "Pop-up")

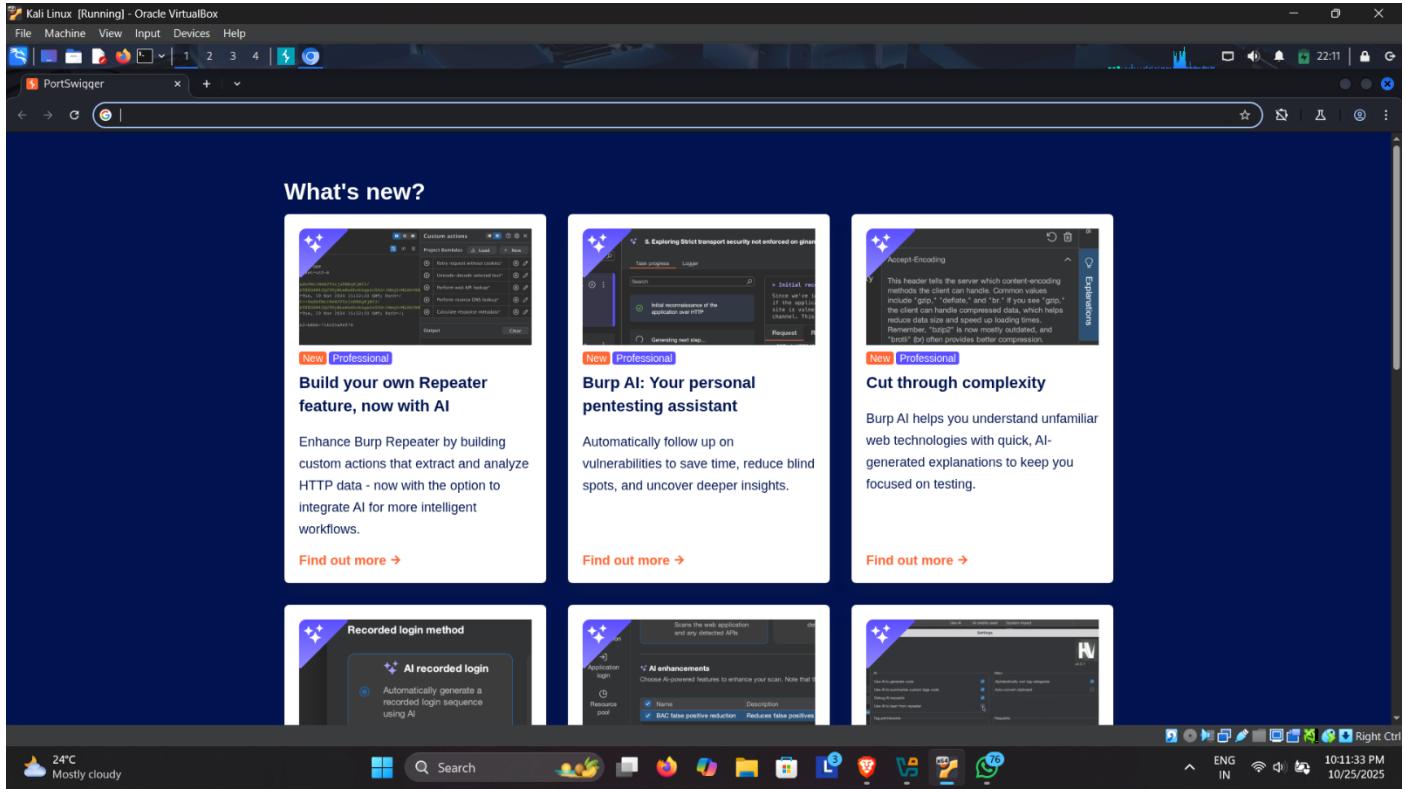
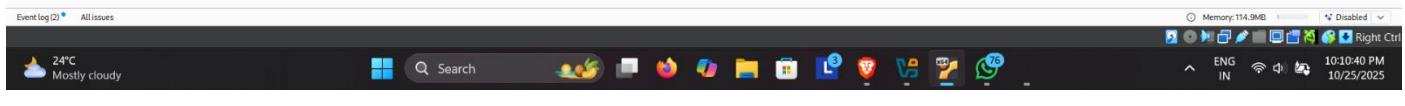
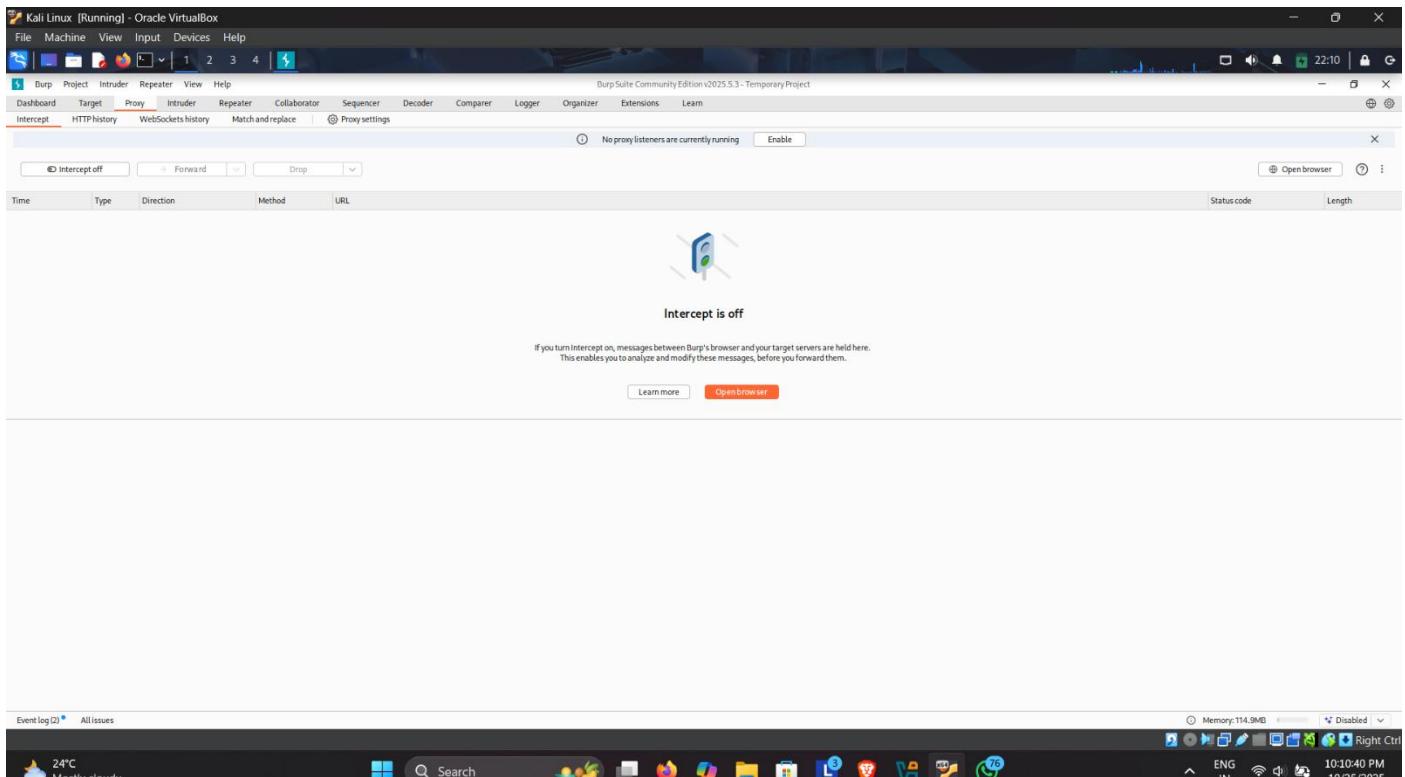
This final step proves that a browser will actually *execute* the reflected script.

1. **Get Browser Link:** In the **Repeater** tab, right-click anywhere in the **Response** panel (the one on the right).
 2. From the menu, select "**Show response in browser**".
 3. A dialog box will pop up. **Copy the unique URL** it provides.
 4. **Paste and Go:** Go back to your **Burp Browser** window. Paste the copied URL into the address bar and press Enter.
 5. **Observe the Result:** The browser will render the exact response from Repeater. You should immediately see a **JavaScript alert box pop up** with the number "1" inside it.
-

Results

You have successfully:

1. Intercepted a web request using Burp Suite.
2. Sent the request to Repeater to analyze the server's response.
3. Confirmed that the target application reflects user input without sanitization.
4. Exploited the vulnerability by running a script, which was confirmed by the pop-up.



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PortSwigger

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What's new?

Build your own Repeater feature, now with AI

Enhance Burp Repeater by building custom actions that extract and analyze HTTP data - now with the option to integrate AI for more intelligent workflows.

[Find out more →](#)

Burp AI: Your personal pentesting assistant

Automatically follow up on vulnerabilities to save time, reduce blind spots, and uncover deeper insights.

[Find out more →](#)

Cut through complexity

Burp AI helps you understand unfamiliar web technologies with quick, AI-generated explanations to keep you focused on testing.

[Find out more →](#)

Recorded login method

Automatically generate a recorded login sequence using AI

AI enhancements

Choose AI-powered features to enhance your scan. Note that this is a beta feature.

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https://www.google.com/search?q=pentest+ground&oq=&gs_lcp=EqZjaHjbWUrqCQgAEUYOxjCazJCAAQRrg7GMID0gEJNzE40TFqMGoxqAIBsAIB&sourceid=chrome&ie=UTF-8

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Pentest-Ground

Pentest Ground was designed for penetration testers, ethical hackers, and other offensive security professionals. You can use it without authentication to ...

Dwba

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NooBANK - Private Banking ...

Online Banking Application.

Setup.php

Vulnerable REST API

Pentest Ground Logo. Vulnerable REST API. This REST API is ...

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Pentest-Ground https://pentest-ground.com

network services. You can use them to test how effective vulnerability scanning tools are or for educational purposes.

Vulnerable systems

NAME	URL	TECHNOLOGIES	VULNERABILITIES
Damn Vulnerable Web Application	https://pentest-ground.com:4280	Classic Web App	CSRF, XSS, SQLi
Damn Vulnerable GraphQL Application	https://pentest-ground.com:5013	GraphQL	CMDi, XSS, SQLi
RestFlaw	https://pentest-ground.com:9000	REST API	SQLi, Code Injection, XXE
ShadowLogic	https://pentest-ground.com:7001	WebLogic	CVE-2023-21839 (RCE)
CipherHeart	pentest-ground.com:6379	Redis	CVE-2022-0543 (RCE)
GuardianLeaks	https://pentest-ground.com:81	Web App	XSS, SSRE, Code Injection

You can scan all the applications and services on Pentest-Ground.com but keep in mind that others may do the same – at the same time. Every 30 minutes, each application is destroyed and

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Pentest-Ground https://pentest-ground.com:4280/vulnerabilities/xss_rf/

Vulnerability: Reflected Cross Site Scripting (XSS)

DVWA

Home Instructions Setup / Reset DB

Brute Force Command Injection CSRF File Inclusion File Upload Insecure CAPTCHA SQL Injection SQL Injection (Blind) Weak Session IDs XSS (DOM) XSS (Reflected) XSS (Stored) CSP Bypass JavaScript Open HTTP Redirect DVWA Security PHP Info About Logout

What's your name? Submit

More Information

- <https://owasp.org/www-community/attacks/xss/>
- <https://owasp.org/www-community/xss-filter-evasion-cheatsheet>
- https://en.wikipedia.org/wiki/Cross-site_scripting
- <http://www.cgisecurity.com/xss-faq.html>
- <http://www.scriptkiddi.com/>

Username: Unknown Security Level: Low Locale: en View Source View Help

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Pentest-Ground https://pentest-ground.com:4280/vulnerabilities/xss_r/

Vulnerability: Reflected Cross Site Scripting (XSS)

What's your name? <script>alert(1)</script> Submit

More Information

- <https://owasp.org/www-community/attacks/xss/>
- <https://owasp.org/www-community/xss-filter-evasion-cheatsheet>
- https://en.wikipedia.org/wiki/Cross-site_scripting
- <http://www.cgisecurity.com/xss-faq.html>
- <http://www.scriptalert1.com/>

Home Instructions Setup / Reset DB

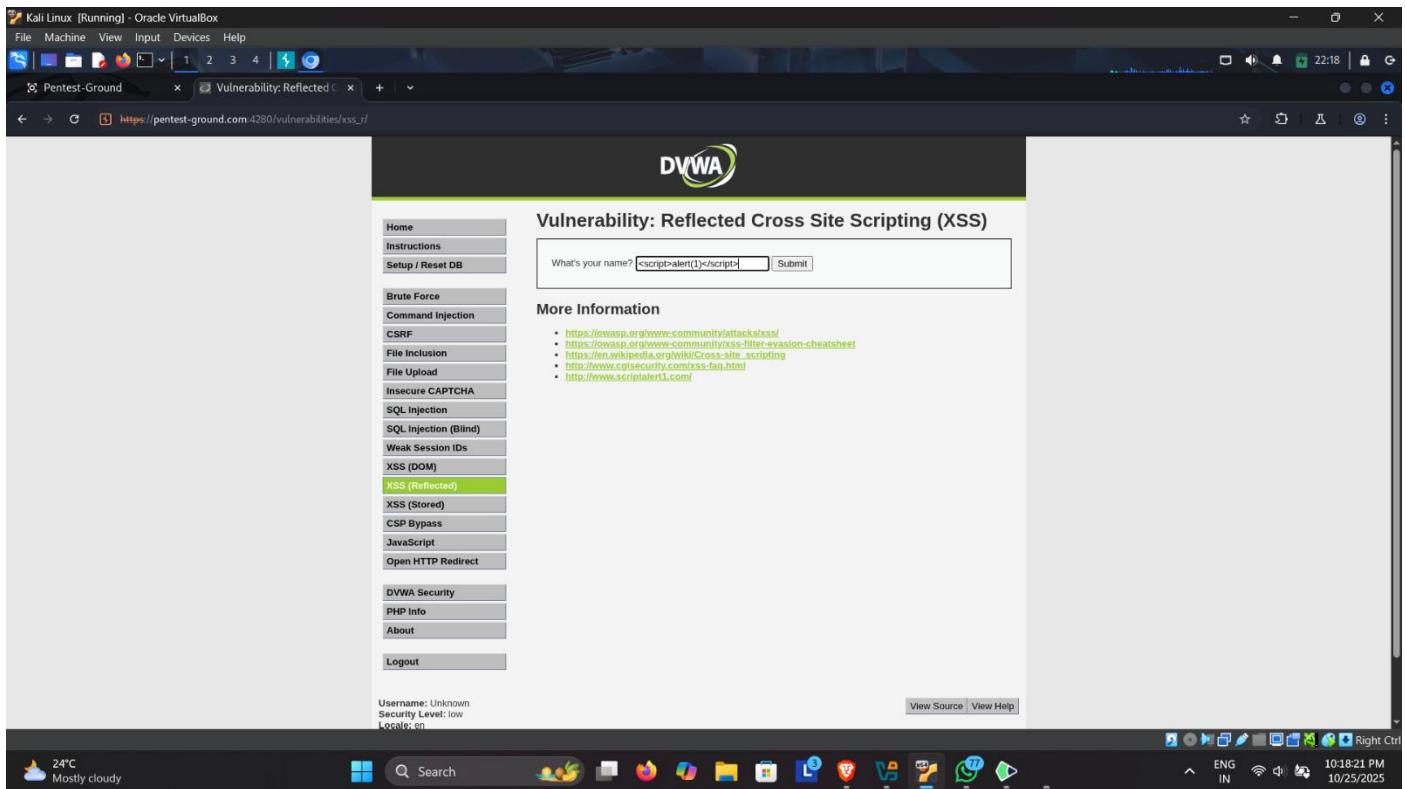
Brute Force Command Injection CSRF File Inclusion File Upload Insecure CAPTCHA SQL Injection SQL Injection (Blind) Weak Session IDs XSS (DOM) XSS (Reflected) XSS (Stored) CSP Bypass JavaScript Open HTTP Redirect

DWVA Security PHP Info About Logout

Username: Unknown Security Level: low Localtriton

View Source View Help

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Burp Project Intruder Repeater View Help

Burp Suite Community Edition v2025.5.3 - Temporary Project

Dashboard Target Proxy Intruder Repeater Collaborator Sequencer Decoder Comparator Logger Organizer Extensions Learn

Intercept HTTP history WebSockets history Match and replace Proxy settings

Intercept on Forward Drop

Time Type Direction Method URL Status code Length

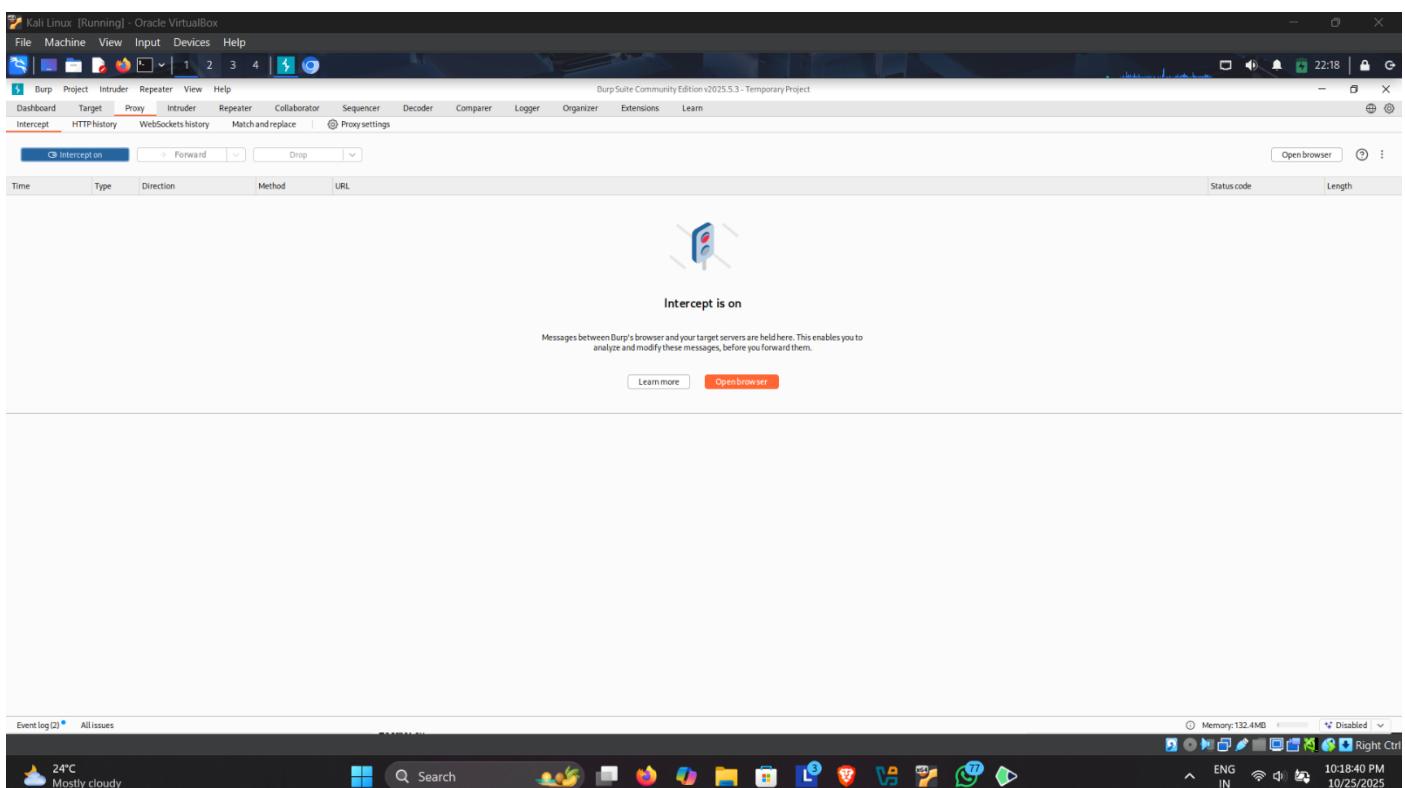
Intercept is on

Messages between Burp's browser and your target servers are held here. This enables you to analyze and modify these messages, before you forward them.

Learn more Open browser

Event log (2) All issues

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B Burp Project Intruder Repeater View Help

Dashboard Target **Proxy** Intruder Repeater Collaborator Sequencer Decoder Comparer Logger Organizer Extensions Learn

Intercept HTTP history WebSockets history Match and replace ⚙ Proxy settings

Request

Pretty Raw Hex

```
1 GET /vulnerabilities/xss_r/?name=%3Cscript%3Ealert%281%29%3C%2Fscript%3E HTTP/1.1
2 Host: pentest-ground.com:4280
3 Cookie: security=low; PHPSESSID=9d48703d1527a91b5c0e63fb4948042
4 Sec-Ch-Ua: "Chromium";v="137", "Not/A/Brand";v="24"
5 Sec-Ch-Ua-Mobile: ?0
6 Sec-Ch-Ua-Platform: "Linux"
7 Accept-Language: en-GB,en;q=0.9
8 Upgrade-Insecure-Requests: 1
9 User-Agent: Mozilla/5.0 (X11: Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/137.0.0.0 Safari/537.36
10 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
11 Sec-Fetch-Site: same-origin
12 Sec-Fetch-Mode: navigate
13 Sec-Fetch-Dest: document
14 Sec-Fetch-User: ?1
15 Referer: https://pentest-ground.com:4280/vulnerabilities/xss_r/
16 Accept-Encoding: gzip, deflate, br
17 Priority: pub: 1
18 Connection: keep-alive
19
20
```

Event log (0) All issues

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B Burp Project Intruder Repeater View Help

Dashboard Target **Proxy** Intruder Repeater Collaborator Sequencer Decoder Comparer Logger Organizer Extensions Learn

Intercept HTTP history WebSockets history Match and replace ⚙ Proxy settings

Request

Pretty Raw Hex

```
1 GET /vulnerabilities/xss_r/?name=%3Cscript%3Ealert%281%29%3C%2Fscript%3E HTTP/1.1
2 Host: pentest-ground.com:4280
3 Cookie: security=low; PHPSESSID=9d48703d1527a91b5c0e63fb4948042
4 Sec-Ch-Ua: "Chromium";v="137", "Not/A/Brand";v="24"
5 Sec-Ch-Ua-Mobile: ?0
6 Sec-Ch-Ua-Platform: "Linux"
7 Accept-Language: en-GB,en;q=0.9
8 Upgrade-Insecure-Requests: 1
9 User-Agent: Mozilla/5.0 (X11: Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/137.0.0.0 Safari/537.36
10 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
11 Sec-Fetch-Site: same-origin
12 Sec-Fetch-Mode: navigate
13 Sec-Fetch-Dest: document
14 Sec-Fetch-User: ?1
15 Referer: https://pentest-ground.com:4280/vulnerabilities/xss_r/
16 Accept-Encoding: gzip, deflate, br
17 Priority: pub: 1
18 Connection: keep-alive
19
20
```

Event log (0) All issues

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Search

Memory: 132.4MB Disabled Right Ctrl

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File Machine View Input Devices Help

Burp Suite Community Edition v2025.5.3 - Temporary Project

Dashboard Target **Proxy** Intruder Repeater View Help

Repeater Collaborator Sequencer Decoder Comparer Logger Organizer Extensions Learn

Send Cancel < > []

Target: https://pentest-ground.com:4280 | HTTP/1.1

Request

```
1 GET /vulnerabilities/xss_r/?name=%3Cscript%3Balert%28%29%3C%2Fscript%3E HTTP/1.1
2 Host: pentest-ground.com:4280
3 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/137.0.0.0 Safari/537.36
4 Sec-Ch-Ua: "Chromium";v="137", "Not/A[Brand]";v="24"
5 Sec-Ch-Ua-Mobile: ?0
6 Sec-Ch-Ua-Platform: "Linux"
7 Accept-Language: en-US,en;q=0.9
8 Upgrade-Insecure-Requests: 1
9 User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/137.0.0.0 Safari/537.36
10 text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
11 Sec-Fetch-Site: same-origin
12 Sec-Fetch-Mode: navigate
13 Sec-Fetch-User: ?1
14 Sec-Fetch-Dest: document
15 Referer: https://pentest-ground.com:4280/vulnerabilities/xss_r/
16 Accept-Encoding: gzip, deflate, br
17 Priority: u=0, i
18 CONNECTOR.KEEPALIVE
19
20
```

Response

```
<ul class="menuBlocks">
<li class="active"><a href="#">Logout</a>
</li>
</ul>
</div>
</div>
<div id="main_body">
<div class="body_padded">
<h1>Vulnerability: Reflected Cross Site Scripting (XSS)</h1>
<div class="vulnerable_code_area">
<form name="XSS" action="#" method="GET">
<input type="text" name="name">
<input type="submit" value="Submit">
</form>
<br>
Hello <script> alert(1) </script>
<br>
<h2>More Information</h2>
<ul>
<li><a href="https://owasp.org/www-community/attacks/xss/" target="_blank"> https://owasp.org/www-community/attacks/xss/ </a>
</li>
</ul>
```

0 highlights

Ready Event log (2) All issues

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Burp Suite Community Edition v2025.5.3 - Temporary Project

Dashboard Target **Proxy** Intruder Repeater View Help

Repeater Collaborator Sequencer Decoder Comparer Logger Organizer Extensions Learn

Send Cancel < > []

Target: https://pentest-ground.com:4280 | HTTP/1.1

Request

```
1 GET /vulnerabilities/xss_r/?name=%3Cscript%3Balert%28%29%3C%2Fscript%3E HTTP/1.1
2 Host: pentest-ground.com:4280
3 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/137.0.0.0 Safari/537.36
4 Sec-Ch-Ua: "Chromium";v="137", "Not/A[Brand]";v="24"
5 Sec-Ch-Ua-Mobile: ?0
6 Sec-Ch-Ua-Platform: "Linux"
7 Accept-Language: en-US,en;q=0.9
8 Upgrade-Insecure-Requests: 1
9 User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/137.0.0.0 Safari/537.36
10 text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
11 Sec-Fetch-Site: same-origin
12 Sec-Fetch-Mode: navigate
13 Sec-Fetch-User: ?1
14 Sec-Fetch-Dest: document
15 Referer: https://pentest-ground.com:4280/vulnerabilities/xss_r/
16 Accept-Encoding: gzip, deflate, br
17 Priority: u=0, i
18 CONNECTOR.KEEPALIVE
19
20
```

Response

```
<ul class="menuBlocks">
<li class="active"><a href="#">Logout</a>
</li>
</ul>
</div>
</div>
<div id="main_body">
<div class="body_padded">
<h1>Vulnerability: Reflected Cross Site Scripting (XSS)</h1>
<div class="vulnerable_code_area">
<form name="XSS" action="#" method="GET">
<input type="text" name="name">
<input type="submit" value="Submit">
</form>
<br>
Hello <script> alert(1) </script>
<br>
<h2>More Information</h2>
<ul>
<li><a href="https://owasp.org/www-community/attacks/xss/" target="_blank"> https://owasp.org/www-community/attacks/xss/ </a>
</li>
</ul>
```

Selected text <script>alert(1)</script>

0 highlights

Done Event log (2) All issues

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