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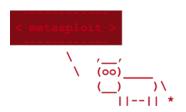
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OFFSEC?
(HTTPS://WWW.OFFENSIVESECURITY.COM/WHYOFFSEC/)

KALI AND
COMMUNITY
(HTTPS://WWW.OFFENSIVESECURITY.COM/COMMUNITYPROJECTS/)



## TABLE OF CONTENTS

METASPLOIT UNLEASHED (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/)

## MSFCONSOLE COMMANDS

# MSFCONSOLE CORE COMMANDS TUTORIAL

DONATE – HELP FEED A CHILD (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/DONATE/)

INTRODUCTION (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/INTRODUCTION/)

REQUIREMENTS (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/REQUIREMENTS/)

METASPLOIT ARCHITECTURE (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/METASPLOIT-ARCHITECTURE/)

FILESYSTEM AND LIBRARIES (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/FILESYSTEM-AND-LIBRARIES/)

MODULES AND LOCATIONS (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/MODULES-AND-LOCATIONS/)

METASPLOIT OBJECT MODEL (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/METASPLOIT-OBJECT-MODEL/)

MIXINS AND PLUGINS (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/MIXINS-PLUGINS/)

METASPLOIT FUNDAMENTALS (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/METASPLOIT-FUNDAMENTALS/) The MSFconsole has many different command options to choose from. The following are a core set of Metasploit commands with reference to their output.



(https://www.offensivesecurity.com/wpcontent/uploads/2015/04/m: core-

commands.png)

msfconsole core commands | Metasploit Unleashed

<u>back</u>	Move back from the current context Display an awesome metasploit banner		
<u>banner</u>			
cd	Change the current working directory		
<u>color</u>	Toggle color		
<u>connect</u>	Communicate with a host		
<u>edit</u>	Edit the current module with \$VISUAL or		
<u>exit</u>	Exit the console		
get	<pre>get Gets the value of a context-specific v</pre>		
getg Gets the value of a global variable			
go_pro	<pre>go_pro</pre>		
4	,		

gran	Grep the output of another command		
g <u>rep</u>	diep the output of another command		
<u>help</u>	Help menu		
<u>info</u>	Displays information about one or more		
<u>irb</u>	Drop into irb scripting mode		
<u>jobs</u>	Displays and manages jobs		
<u>kill</u>	Kill a job		
<u>load</u>	Load a framework plugin		
loadpath	Searches for and loads modules from a $\mathfrak p$		
makerc	Save commands entered since start to a		
popm	Pops the latest module off the stack ar		

MSFCLI (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/MSFCLI/)

MSFCONSOLE (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/MSFCONSOLE/)

MSFCONSOLE COMMANDS (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/MSFCONSOLE-COMMANDS/)

EXPLOITS (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/EXPLOITS/)

USING EXPLOITS (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/USING-EXPLOITS/)

PAYLOADS (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/PAYLOADS/)

PAYLOAD TYPES (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/PAYLOAD-TYPES/)

GENERATING
PAYLOADS
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/GENERATINGPAYLOADS/)

DATABASES (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/DATABASE-INTRODUCTION/)

USING THE
DATABASE
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/USINGDATABASES/)

previous	Sets the previously loaded module as th		
pushm	Pushes the active or list of modules or		
quit	Exit the console		
reload_all	Reloads all modules from all defined mo		
rename_job	Rename a job		
resource	Run the commands stored in a file Route traffic through a session		
<u>route</u>			
save	Saves the active datastores		
<u>search</u>	Searches module names and descriptions		
<u>sessions</u>	Dump session listings and display infor		

<u>set</u>	Sets a context-specific variable to a $ec{v}$		
<u>setg</u>	Sets a global variable to a value		
<u>show</u>	Displays modules of a given type, or al		
sleep	Do nothing for the specified number of		
spool	Write console output into a file as wel		
threads	View and manipulate background threads		
<u>unload</u>	Unload a framework plugin		
<u>unset</u>	Unsets one or more context-specific var		
unsetg	Unsets one or more global variables		
<u>use</u>	Selects a module by name		
version	Show the framework and console library		

## **BACK**

Once you have finished working with a particular module, or if you inadvertently select the wrong module, you can issue the **back** command to move out of the current context. This, however is not required. Just as you can in commercial routers, you can switch modules from within other modules. As a reminder, variables will only carry over if they are set globally.

msf auxiliary(ms09\_001\_write) > back
msf >

METERPRETER (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/ABOUT-METERPRETER/)

METERPRETER
BASICS
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/METERPRETERBASICS/)

PYTHON EXTENSION (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/PYTHON-EXTENSION-2/)

PYTHON EXTENSION
EXAMPLES
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/PYTHONEXTODOM/MPIONS/)
GATHERING
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/INFORMATIONGATHERING/)

PORT SCANNING (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/PORT-SCANNING/)

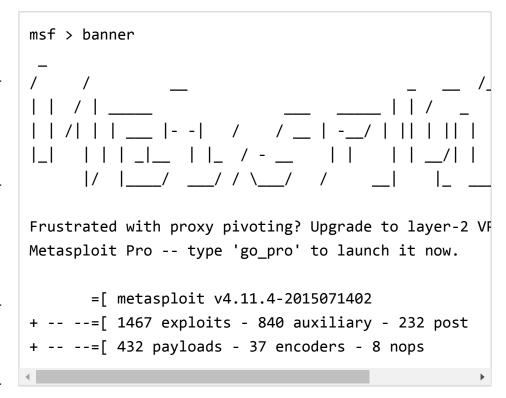
HUNTING FOR MSSQL (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/HUNTING-MSSQL/)

SERVICE
IDENTIFICATION
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/SERVICEIDENTIFICATION/)

PASSWORD SNIFFING (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/PASSWORD-SNIFFING/)

## **BANNER**

Simply displays a randomly selected banner



## **CHECK**

There aren't many exploits that support it, but there is also a **check** option that will check to see if a target is vulnerable to a particular exploit instead of actually exploiting it.

PSNUFFLE (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/EXTENDING-PSNUFFLE/)

SNMP SWEEPING (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/SNMP-SCAN/)

WRITING YOUR OWN SCANNER (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/WRITING-SCANNER/)

WINDOWS PATCH ENUMERATION (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/PATCH-ENUMERATION/)

VULNERABILITY SCANNING (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/VULNERABILITY-SCANNING/)

SMB LOGIN CHECK (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/SMB-LOGIN-CHECK/)

VNC
AUTHENTICATION
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/VNCAUTHENTICATION/)

WMAP WEB SCANNER (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/WMAP-WEB-SCANNER/)

WORKING WITH NEXPOSE (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/WORKING-WITH-NEXPOSE/)

```
msf exploit(ms08 067 netapi) > show options
Module options (exploit/windows/smb/ms08 067 netapi):
            Current Setting
                                        Description
   Name
                             Required
   RHOST
            172.16.194.134
                                        The target add
                             yes
   RPORT
            445
                                        Set the SMB se
                             yes
   SMBPIPE
            BROWSER
                                        The pipe name
                             yes
Exploit target:
   Ιd
       Name
   0
       Automatic Targeting
msf exploit(ms08 067 netapi) > check
[*] Verifying vulnerable status... (path: 0x0000005a)
[*] System is not vulnerable (status: 0x00000000)
[*] The target is not exploitable.
     exploit(ms08 067 netapi) >
```

## **COLOR**

You can enable or disable if the output you get through the msfconsole will contain colors.

```
msf > color
Usage: color >'true'|'false'|'auto'>
Enable or disable color output.
```

## **CONNECT**

There is a miniature Netcat clone built into the msfconsole that supports SSL, proxies, pivoting, and file transfers. By issuing the **connect** command with an IP

NEXPOSE VIA MSFCONSOLE (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/NEXPOSE-MSFCONSOLE/)

WORKING WITH NESSUS (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/WORKING-WITH-NESSUS/)

NESSUS VIA MSFCONSOLE (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/NESSUS-VIA-MSFCONSOLE/)

WRITING A SIMPLE FUZZER (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/WRITING-SIMPLE-FUZZER/)

SIMPLE TFTP FUZZER (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/SIMPLE-TFTP-FUZZER/)

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DEVELOPMENT
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EXPLOIT
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GOALS
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/EXPLOITDEVELOPMENTGOALS/)

EXPLOIT FORMAT (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-

address and port number, you can connect to a remote host from within msfconsole the same as you would with Netcat or Telnet.

```
msf > connect 192.168.1.1 23
[*] Connected to 192.168.1.1:23
DD-WRT v24 std (c) 2008 NewMedia-NET GmbH
Release: 07/27/08 (SVN revision: 10011)
DD-WRT login:
```

You can see all the additional options by issuing the **-h** parameter.

```
msf > connect -h
Usage: connect [options]
Communicate with a host, similar to interacting via r
any configured session pivoting.
OPTIONS:
              Try to use CRLF for EOL sequence.
    -C
    -P <opt> Specify source port.
    -S <opt> Specify source address.
              Specify which Comm to use.
    -c <opt>
    -h
              Help banner.
    -i <opt> Send the contents of a file.
    -p <opt>
              List of proxies to use.
              Connect with SSL.
    - S
              Switch to a UDP socket.
    -u
    -w <opt> Specify connect timeout.
              Just try to connect, then return.
    - Z
msf >
```

## **EDIT**

The **edit** command will edit the current module with \$VISUAL or \$EDITOR. By default, this will open the current module in Vim.

UNLEASHED/EXPLOIT-FORMAT/)

EXPLOIT MIXINS (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/EXPLOIT-MIXINS/)

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MSFPAYLOAD (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/MSFPAYLOAD/)

MSFENCODE (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/MSFENCODE/)

ALPHANUMERIC SHELLCODE (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/ALPHANUMERIC-SHELLCODE/)

MSFROP (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/MSFROP/)

WRITING AN EXPLOIT (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/WRITING-AN-EXPLOIT/)

GETTING A SHELL (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/SHELL/)

```
msf exploit(ms10_061_spoolss) > edit
[*] Launching /usr/bin/vim /usr/share/metasploit-fram
##
# This module requires Metasploit: http//metasploit.c
# Current source: https://github.com/rapid7/metasploi
##

require 'msf/core'
require 'msf/windows_error'

class Metasploit3 > Msf::Exploit::Remote
   Rank = ExcellentRanking

include Msf::Exploit::Remote::DCERPC
   include Msf::Exploit::Remote::SMB
   include Msf::Exploit::EXE
   include Msf::Exploit::WbemExec

def initialize(info = {})
```

## **EXIT**

The **exit** command will simply exit msfconsole.

```
msf exploit(ms10_061_spoolss) > exit
root@kali:~#
```

## **GREP**

The **grep** command is similar to Linux grep. It matches a given pattern from the output of another msfconsole command. The following is an example of using **grep** to match output containing the string "http" from a **search** for modules containing the string "oracle".

USING THE EGGHUNTER MIXIN (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/EGGHUNTER-MIXIN/)

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PORTING EXPLOITS (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/PORTING-EXPLOITS/)

WEB APP EXPLOIT DEV (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/WEB-APPLICATION-EXPLOIT-DEVELOPMENT/)

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MAKING A LOG ENTRY (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/MAKING-LOG-ENTRY/)

HOSTING THE JAVASCRIPT (HTTPS://WWW.OFFENSIVE-

msf > grep Usage: grep [options] pattern cmd Grep the results of a console command (similar to Lir **OPTIONS:** -A <opt&> Show arg lines of output After a match Show arg lines of output Before a match. -B Only print a count of matching lines. - C -h Help banner. -i Ignore case. -k Keep (include) arg lines at start of output. Stop after arg matches. - m Skip arg lines of output before attempting m **-** S Invert match. msf > msf > grep http search oracle auxiliary/scanner/http/oracle\_demantra\_database\_cr auxiliary/scanner/http/oracle demantra file retrie auxiliary/scanner/http/oracle ilom login exploit/multi/http/glassfish\_deployer exploit/multi/http/oracle ats file upload exploit/multi/http/oracle reports rce exploit/windows/http/apache\_chunked exploit/windows/http/bea weblogic post bof exploit/windows/http/oracle9i xdb pass exploit/windows/http/oracle beehive evaluation exploit/windows/http/oracle\_beehive\_prepareaudioto exploit/windows/http/oracle btm writetofile exploit/windows/http/oracle endeca exec exploit/windows/http/oracle\_event\_processing\_uploated

## **HELP**

The **help** command will give you a list and small description of all available commands.

exploit/windows/http/osb uname jlist

SECURITY.COM/METASPLOIT-UNLEASHED/HOSTING-JAVASCRIPT/)

FINAL EXPLOIT (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/FINAL-EXPLOIT/)

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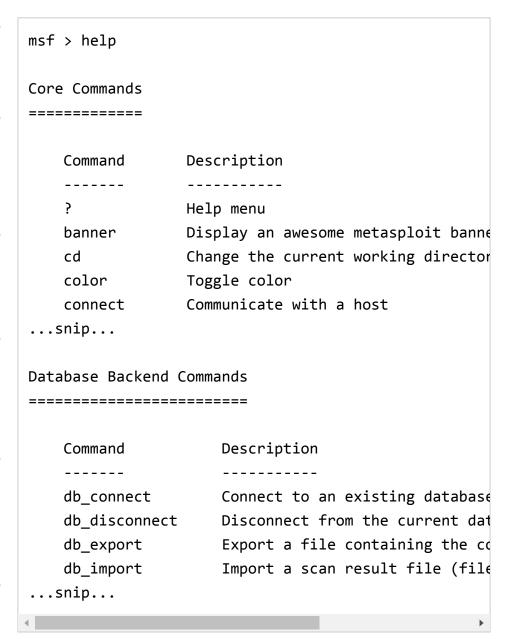
BINARY LINUX TROJAN (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/BINARY-LINUX-TROJAN/)

CLIENT SIDE EXPLOITS (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/CLIENT-SIDE-EXPLOITS/)

VBSCRIPT INFECTION
METHODS
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/VBSCRIPTINFECTIONMETHODS/)

MSF POST EXPLOITATION (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/MSF-POST-EXPLOITATION/)

PRIVILEGE
ESCALATION
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/PRIVILEGEESCALATION/)



## **INFO**

The **info** command will provide detailed information about a particular module including all options, targets, and other information. Be sure to always read the module description prior to using it as some may have un-desired effects.

The info command also provides the following information:

- The author and licensing information
- Vulnerability references (ie: CVE, BID, etc)
- Any payload restrictions the module may have

PSEXEC PASS THE HASH (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/PSEXEC-PASS-HASH/)

EVENT LOG MANAGEMENT (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/EVENT-LOG-MANAGEMENT/)

FUN WITH
INCOGNITO
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/FUNINCOGNITO/)

INTERACTING WITH
THE REGISTRY
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/INTERACTINGREGISTRY/)

PERSISTENT NETCAT
BACKDOOR
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/PERSISTENTNETCAT-BACKDOOR/)

ENABLING REMOTE
DESKTOP
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/ENABLINGREMOTE-DESKTOP/)

PACKET SNIFFING (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/PACKET-SNIFFING/)

PIVOTING (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/PIVOTING/)

PORTFWD (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/PORTFWD/) msf exploit(ms09\_050\_smb2\_negotiate\_func\_index) > ir

Name: Microsoft SRV2.SYS SMB Negotiate Process Module: exploit/windows/smb/ms09 050 smb2 negoti

Version: 14774
Platform: Windows
Privileged: Yes

License: Metasploit Framework License (BSD)

Rank: Good

#### Provided by:

Laurent Gaffie <laurent.gaffie@gmail.com>
hdm <hdm@metasploit.com>
sf <stephen fewer@harmonysecurity.com>

#### Available targets:

Id Name

Windows Vista SP1/SP2 and Server 2008 (x86)

#### Basic options:

Name	Current Setting	Required	Description
RHOST		yes	The target addres
RPORT	445	yes	The target port
WAIT	180	yes	The number of sec

#### Payload information:

Space: 1024

#### Description:

This module exploits an out of bounds function table the SMB request validation code of the SRV2.SYS driwindows Vista, Windows 7 release candidates (not R1 2008 Server prior to R2. Windows Vista without SP1 affected by this flaw.

#### References:

http://www.microsoft.com/technet/security/bulletin/ http://cve.mitre.org/cgi-bin/cvename.cgi?name=2009-

http://www.securityfocus.com/bid/36299

http://www.osvdb.org/57799

TIMESTOMP (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/TIMESTOMP/)

SCREEN CAPTURE (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/SCREEN-CAPTURE/)

SEARCHING FOR CONTENT (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/SEARCHING-CONTENT/)

JOHN THE RIPPER (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/JOHN-RIPPER/)

METERPRETER SCRIPTING (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/METERPRETER-SCRIPTING/)

EXISTING SCRIPTS (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/EXISTING-SCRIPTS/)

WRITING
METERPRETER
SCRIPTS
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/WRITINGMETERPRETERSCRIPTS/)

CUSTOM SCRIPTING (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/CUSTOM-SCRIPTING/)

USEFUL API CALLS (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/API-CALLS/)

```
http://seclists.org/fulldisclosure/2009/Sep/0039.ht
http://www.microsoft.com/technet/security/Bulletin/
msf exploit(ms09_050_smb2_negotiate_func_index) >
```

## **IRB**

Running the **irb** command will drop you into a live Ruby interpreter shell where you can issue commands and create Metasploit scripts on the fly. This feature is also very useful for understanding the internals of the Framework.

```
msf > irb
[*] Starting IRB shell...

>> puts "Hello, metasploit!"
Hello, metasploit!
=> nil
>> Framework::Version
=> "4.8.2-2014022601"
```

## JOBS

Jobs are modules that are running in the background. The **jobs** command provides the ability to list and terminate these jobs.

USEFUL FUNCTIONS (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/FUNCTIONS/)

MAINTAINING ACCESS (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/MAINTAINING-ACCESS/)

KEYLOGGING (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/KEYLOGGING/)

METERPRETER
BACKDOOR
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/METERPRETERBACKDOOR/)

INTERACTING WITH
METSVC
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/INTERACTINGMETSVC/)

PERSISTENT
BACKDOORS
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/PERSISTENTBACKDOORS/)

METERPRETER SERVICE (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/METERPRETER-SERVICE/)

MSF EXTENDED USAGE (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/MSF-EXTENDED-USAGE/)

MIMIKATZ (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/MIMIKATZ/)

UNLEASHED/MIMIKATZ/
BACKDOORING EXE

**FILES** 

```
msf > jobs -h
Usage: jobs [options]
Active job manipulation and interaction.
OPTIONS:
              Terminate all running jobs.
    - K
    -h
              Help banner.
    -i
         Lists detailed information about a running
    -k
         Terminate the specified job name.
    -1
              List all running jobs.
              Print more detailed info. Use with -i
    -v
msf >
```

## **KILL**

The **kill** command will kill any running jobs when supplied with the job id.

```
msf exploit(ms10_002_aurora) > kill 0
Stopping job: 0...
[*] Server stopped.
```

## **LOAD**

The **load** command loads a plugin from Metasploit's **plugin** directory. Arguments are passed as **key=val** on the shell.

(HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/BACKDOORING-EXE-FILES/)

KARMETASPLOIT (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/KARMETASPLOIT/)

KARMETASPLOIT CONFIGURATION (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/KARMETASPLOIT-CONFIGURATION/)

KARMETASPLOIT IN ACTION (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/KARMETASPLOIT-ACTION/)

KARMETASPLOIT
ATTACK ANALYSIS
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/KARMETASPLOITATTACK-ANALYSIS/)

MSF VS OS X (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/MSF-OS/)

FILE-UPLOAD
BACKDOORS
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/FILEUPLOADBACKDOORS/)

FILE INCLUSION
VULNERABILITIES
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/FILEINCLUSIONVULNERABILITIES/)

PHP METERPRETER (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/PHP-METERPRETER/) msf > load

Usage: load [var=val var=val ...]

Loads a plugin from the supplied path. If path is not in the user's plugin directory (/root/.msf4/plugins) in the framework root plugin directory (/usr/share/meThe optional var=val options are custom parameters the

msf > load pcap\_log

[\*] PcapLog plugin loaded.

[\*] Successfully loaded plugin: pcap\_log

#### **LOADPATH**

The **loadpath** command will load a third-part module tree for the path so you can point Metasploit at your 0-day exploits, encoders, payloads, etc.

msf > loadpath /home/secret/modules

Loaded 0 modules.

#### **UNLOAD**

Conversely, the **unload** command unloads a previously loaded plugin and removes any extended commands.

msf > unload pcap\_log
Unloading plugin pcap\_log...unloaded.

## RESOURCE

The **resource** command runs resource (batch) files that can be loaded through msfconsole.

**BUILDING A MODULE** 

(HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/BUILDING-MODULE/)

PAYLOADS THROUGH MSSQL (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/PAYLOADS-MSSQL/)

CREATING OUR
AUXILIARY MODULE
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/CREATINGAUXILIARY-MODULE/)

THE GUTS BEHIND AN AUXILIARY MODULE (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/GUTS/)

WEB DELIVERY (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/WEB-DELIVERY/)

METASPLOIT GUIS (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/METASPLOIT-GUIS/)

MSF COMMUNITY
EDITION
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/MSFCOMMUNITYEDITION/)

MSF COMMUNITY: SCANNING (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/MSF-COMMUNITY-SCANNING/)

MSF COMMUNITY: EXPLOITATION (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/MSF-

```
msf > resource
Usage: resource path1 [path2 ...]

Run the commands stored in the supplied files. Reso
ruby code between tags.

See also: makerc
```

Some attacks, such as Karmetasploit, use resource files to run a set of commands in a **karma.rc** file to create an attack. Later, we will discuss how, outside of Karmetasploit, that can be very useful.

```
msf > resource karma.rc
[*] Processing karma.rc for ERB directives.
resource (karma.rc_.txt)> db_connect postgres:toor@12
resource (karma.rc_.txt)> use auxiliary/server/browse
...snip...
```

Batch files can greatly speed up testing and development times as well as allow the user to automate many tasks. Besides loading a batch file from within msfconsole, they can also be passed at startup using the **-r** flag. The simple example below creates a batch file to display the Metasploit version number at startup.

COMMUNITY-EXPLOITATION/)
MSF COMMUNITY:
POST EXPLOITATION
(HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/MSF-COMMUNITY-POST-EXPLOITATION/)

ARMITAGE (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/ARMITAGE/)

ARMITAGE SETUP (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/ARMITAGE-SETUP/)

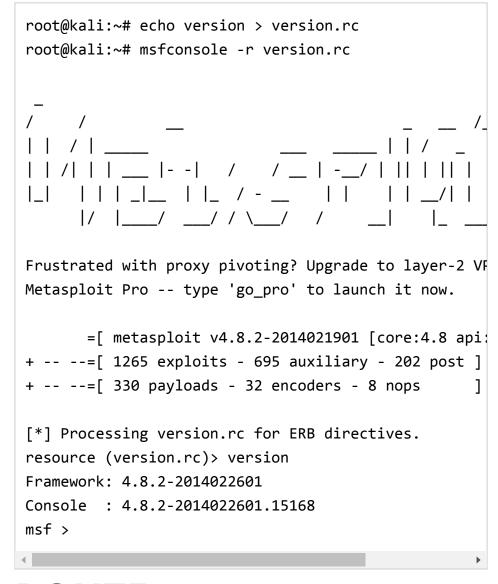
ARMITAGE SCANNING (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/ARMITAGE-SCANNING/)

ARMITAGE
EXPLOITATION
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/ARMITAGEEXPLOITATION/)

ARMITAGE POST EXPLOITATION (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/ARMITAGE-POST-EXPLOITATION/)

POST MODULE REFERENCE (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/POST-MODULE-REFERENCE/)

AUXILIARY MODULE REFERENCE (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/AUXILIARY-



## **ROUTE**

The **route** command in Metasploit allows you to route sockets through a session or 'comm', providing basic pivoting capabilities. To add a route, you pass the target subnet and network mask followed by the session (comm) number.

**MODULE-**REFERENCE/)

**ADMIN HTTP AUXILIARY MODULES** (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/ADMIN-HTTP-AUXILIARY-MODULES/)

**ADMIN MYSQL AUXILIARY MODULES** (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/ADMIN-MYSOL-AUXILIARY-MODULES/)

ADMIN MSSQL **AUXILIARY MODULES** (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/ADMIN-MSSOL-AUXILIARY-MODULES/)

**ADMIN POSTGRES AUXILIARY MODULES** (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/ADMIN-**POSTGRES-AUXILIARY-**MODULES/)

**ADMIN VMWARE** AUXILIARY MODULES (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/ADMIN-VMWARE-AUXILIARY-MODULES/)

SCANNER DCERPC **AUXILIARY MODULES** (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/SCANNER-DCERPC-AUXILIARY-MODULES/)

SCANNER DISCOVERY **AUXILIARY MODULES** (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/SCANNER-**DISCOVERY-AUXILIARY-**MODULES/)

meterpreter > route -h Route traffic destined to a given subnet through a su Usage: route [add/remove] subnet netmask [comm/sid] route [add/remove] cidr [comm/sid] route [get] route [flush] route [print] Subcommands: add - make a new route remove - delete a route; 'del' is an alias flush - remove all routes get - display the route for a given target print - show all active routes Examples: Add a route for all hosts from 192.168.0.0 to 192.1 route add 192.168.0.0 255.255.255.0 1 route add 192.168.0.0/24 1 Delete the above route route remove 192.168.0.0/24 1

route del 192.168.0.0 255.255.255.0 1

Display the route that would be used for the given route get 192.168.0.11

meterpreter >

SCANNER FTP
AUXILIARY MODULES
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/SCANNERFTP-AUXILIARYMODULES/)

SCANNER HTTP
AUXILIARY MODULES
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/SCANNERHTTP-AUXILIARYMODULES/)

SCANNER MYSQL AUXILIARY MODULES (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/SCANNER-MYSQL-AUXILIARY-MODULES/)

SCANNER MSSQL AUXILIARY MODULES (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/SCANNER-MSSQL-AUXILIARY-MODULES/)

SCANNER IMAP
AUXILIARY MODULES
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/SCANNERIMAP-AUXILIARYMODULES/)

SCANNER NETBIOS
AUXILIARY MODULES
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/SCANNERNETBIOS-AUXILIARYMODULES/)

SCANNER POP3
AUXILIARY MODULES
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/SCANNERPOP3-AUXILIARYMODULES/)

SCANNER SMB AUXILIARY MODULES (HTTPS://WWW.OFFENSIVE- meterpreter > route Network routes ========= Subnet Netmask Gateway 0.0.0.0 0.0.0.0 172.16.1.254 127.0.0.0 255.0.0.0 127.0.0.1 172.16.1.100 172.16.1.0 255.255.255.0 172.16.1.100 255.255.255.255 127.0.0.1 172.16.255.255 255.255.255.255 172.16.1.100 240.0.0.0 172.16.1.100 224.0.0.0 255.255.255.255 255.255.255.255 172.16.1.100

## SEARCH

The msfconsole includes an extensive regularexpression based search functionality. If you have a general idea of what you are looking for, you can search for it via **search**. In the output below, a search is being made for MS Bulletin MS09-011. The search function will locate this string within the module names, descriptions, references, etc.

Note the naming convention for Metasploit modules uses underscores versus hyphens.

SECURITY.COM/METASPLOIT-UNLEASHED/SCANNER-SMB-AUXILIARY-MODULES/)

SCANNER SMTP
AUXILIARY MODULES
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/SCANNERSMTP-AUXILIARYMODULES/)

SCANNER SNMP AUXILIARY MODULES (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/SCANNER-SNMP-AUXILIARY-MODULES/)

SCANNER SSH AUXILIARY MODULES (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/SCANNER-SSH-AUXILIARY-MODULES/)

SCANNER TELNET
AUXILIARY MODULES
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/SCANNERTELNET-AUXILIARYMODULES/)

SCANNER TFTP
AUXILIARY MODULES
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/SCANNERTFTP-AUXILIARYMODULES/)

SCANNER VMWARE
AUXILIARY MODULES
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/SCANNERVMWARE-AUXILIARYMODULES/)

SCANNER VNC
AUXILIARY MODULES
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/SCANNERVNC-AUXILIARYMODULES/)

## help

You can further refine your searches by using the builtin keyword system.

```
msf > help search
Usage: search [keywords]
Keywords:
               Modules that are client or server atta
  app
  author
               Modules written by this author
  bid
               Modules with a matching Bugtraq ID
               Modules with a matching CVE ID
  cve
  edb
               Modules with a matching Exploit-DB ID
               Modules with a matching descriptive na
  name
               Modules affecting this platform
  platform
               Modules with a matching ref
  ref
               Modules of a specific type (exploit, a
  type
Examples:
  search cve:2009 type:exploit app:client
msf >
```

#### name

To search using a descriptive name, use the **name** keyword.

SERVER CAPTURE
AUXILIARY MODULES
(HTTPS://WWW.OFFENSIVESECURITY.COM/METASPLOITUNLEASHED/SERVERCAPTURE-AUXILIARYMODULES/)

RECENT CHANGES TO METASPLOIT UNLEASHED (HTTPS://WWW.OFFENSIVE-SECURITY.COM/METASPLOIT-UNLEASHED/RECENT-CHANGES/)

```
msf > search name:mysql
Matching Modules
==========
  Name
   auxiliary/admin/mysql/mysql_enum
   auxiliary/admin/mysql/mysql_sql
   auxiliary/analyze/jtr_mysql_fast
   auxiliary/scanner/mysql/mysql_authbypass_hashdump
   auxiliary/scanner/mysql/mysql_hashdump
   auxiliary/scanner/mysql/mysql login
   auxiliary/scanner/mysql/mysql_schemadump
   auxiliary/scanner/mysql/mysql_version
   exploit/linux/mysql/mysql_yassl_getname
   exploit/linux/mysql/mysql_yassl_hello
   exploit/windows/mysql/mysql_payload
  exploit/windows/mysql/mysql_yassl_hello
msf >
```

## platform

You can use **platform** to narrow down your search to modules that affect a specific platform.

Using the **type** lets you filter by module type such as auxiliary, post, exploit, etc.

```
msf > search type:post

Matching Modules
==========

Name
----
post/linux/gather/checkvm
post/linux/gather/enum_cron
post/linux/gather/enum_linux
...snip...
```

## author

Searching with the **author** keyword lets you search for modules by your favourite author.

```
msf > search author:dookie

Matching Modules
==========

Name
----
exploit/osx/http/evocam_webserver
exploit/osx/misc/ufo_ai
exploit/windows/browser/amaya_bdo
...snip...
```

## multiple

You can also combine multiple keywords together to further narrow down the returned results.

## **SESSIONS**

The **sessions** command allows you to list, interact with, and kill spawned sessions. The sessions can be shells, Meterpreter sessions, VNC, etc.

```
msf > sessions -h
Usage: sessions [options] or sessions [id]
Active session manipulation and interaction.
OPTIONS:
         Run a Meterpreter Command on the session gi√
    -C
              Terminate all sessions
    -K
         Run a command on the session given with -i,
    - C
    -h
              Help banner
    -i
         Interact with the supplied session ID
         Terminate sessions by session ID and/or range
    -k
              List all active sessions
    -1
              Quiet mode
    -q
              Reset the ring buffer for the session &
    -r
    - S
         Run a script on the session given with -i, (
    -t
         Set a response timeout (default: 15)
         Upgrade a shell to a meterpreter session on
    -u
              List sessions in verbose mode
    -v
              Show extended information in the session
    - X
Many options allow specifying session ranges using co
For example: sessions -s checkvm -i 1,3-5 or
```

To list any active sessions, pass the **-l** options to **sessions**.

```
msf exploit(3proxy) > sessions -1

Active sessions
==========

Id Description Tunnel
-- ------
1 Command shell 192.168.1.101:33191 -> 192.168.1
```

To interact with a given session, you just need to use the -i switch followed by the Id number of the session.

```
msf exploit(3proxy) > sessions -i 1
[*] Starting interaction with 1...
C:WINDOWSsystem32>
```

## SET

The **set** command allows you to configure Framework options and parameters for the current module you are working with.

```
msf auxiliary(ms09_050_smb2_negotiate_func_index) > s
RHOST => 172.16.194.134
msf auxiliary(ms09_050_smb2_negotiate_func_index) > s
Module options (exploit/windows/smb/ms09_050_smb2_neg
   Name
          Current Setting
                           Required
                                     Description
   RHOST
          172.16.194.134
                                     The target addre
                           yes
   RPORT
                                     The target port
          445
                           yes
   WAIT
          180
                                     The number of se
                           yes
Exploit target:
   Ιd
       Name
       Windows Vista SP1/SP2 and Server 2008 (x86)
```

Metasploit also allows you to set an encoder to use at run-time. This is particularly useful in exploit development when you aren't quite certain as to which payload encoding methods will work with a given exploit.

```
msf
     exploit(ms09_050_smb2_negotiate_func_index) > st
Compatible Encoders
============
                           Disclosure Date Rank
   Name
                                             normal
   generic/none
   x86/alpha_mixed
                                             low
   x86/alpha_upper
                                             low
   x86/avoid_utf8_tolower
                                             manual
   x86/call4_dword_xor
                                             normal
   x86/context_cpuid
                                             manual
   x86/context_stat
                                             manual
   x86/context_time
                                             manual
   x86/countdown
                                             normal
   x86/fnstenv_mov
                                             normal
   x86/jmp_call_additive
                                             normal
   x86/nonalpha
                                             low
   x86/nonupper
                                             low
   x86/shikata_ga_nai
                                             excellent
  x86/single_static_bit
                                             manual
   x86/unicode_mixed
                                             manual
   x86/unicode_upper
                                             manual
```

#### unset

The opposite of the **set** command, of course, is **unset**. **unset** removes a parameter previously configured with **set**. You can remove all assigned variables with **unset** all.

```
msf > set RHOSTS 192.168.1.0/24
RHOSTS => 192.168.1.0/24
msf > set THREADS 50
THREADS => 50
msf > set
Global
=====
          Value
  Name
           ____
  RHOSTS 192.168.1.0/24
  THREADS 50
msf > unset THREADS
Unsetting THREADS...
msf > unset all
Flushing datastore...
msf > set
Global
=====
No entries in data store.
msf >
```

## **SETG**

In order to save a lot of typing during a pentest, you can set *global variables* within msfconsole. You can do this with the **setg** command. Once these have been set, you can use them in as many exploits and auxiliary modules as you like. You can also save them for use the next time you start msfconsole. However, the pitfall is forgetting you have saved globals, so always check your options before you **run** or **exploit**. Conversely, you can use the **unsetg** command to unset a global variable. In the

examples that follow, variables are entered in all-caps (ie: LHOST), but Metasploit is case-insensitive so it is not necessary to do so.

```
msf > setg LHOST 192.168.1.101

LHOST => 192.168.1.101

msf > setg RHOSTS 192.168.1.0/24

RHOSTS => 192.168.1.0/24

msf > setg RHOST 192.168.1.136

RHOST => 192.168.1.136
```

After setting your different variables, you can run the **save** command to save your current environment and settings. With your settings saved, they will be automatically loaded on startup, which saves you from having to set everything again.

```
msf > save
Saved configuration to: /root/.msf4/config
msf >
```

## **SHOW**

Entering **show** at the msfconsole prompt will display every module within Metasploit.

There are a number of **show** commands you can use but the ones you will use most frequently are **show** auxiliary, show exploits, show payloads, show encoders, and show nops.

## auxiliary

Executing **show auxiliary** will display a listing of all of the available auxiliary modules within Metasploit. As mentioned earlier, auxiliary modules include scanners, denial of service modules, fuzzers, and more.

```
msf > show auxiliary
Auxiliary
========

Name
----
admin/2wire/xslt_password_reset
admin/backupexec/dump
admin/backupexec/registry
...snip...
```

## exploits

Naturally, **show exploits** will be the command you are most interested in running since at its core, Metasploit is all about exploitation. Run **show exploits** to get a listing of all exploits contained in the framework.

```
msf > show exploits

Exploits
=======

Name
----
aix/rpc_cmsd_opcode21
aix/rpc_ttdbserverd_realpath
bsdi/softcart/mercantec_softcart
...snip...
```

## Using MSFconsole Payloads

Running **show payloads** will display all of the different payloads for all platforms available within Metasploit.

#### **PAYLOADS**

As you can see, there are a lot of payloads available. Fortunately, when you are in the context of a particular exploit, running **show payloads** will only display the payloads that are compatible with that particular exploit. For instance, if it is a Windows exploit, you will not be shown the Linux payloads.

#### **OPTIONS**

If you have selected a specific module, you can issue the **show options** command to display which settings are available and/or required for that specific module.

```
msf exploit(ms08_067_netapi) > show options
Module options:
           Current Setting Required Description
  Name
                                      The target add
  RHOST
                            yes
  RPORT
           445
                                      Set the SMB se
                            yes
           BROWSER
  SMBPIPE
                            yes
                                      The pipe name
Exploit target:
   Id Name
      Automatic Targeting
```

#### **TARGETS**

If you aren't certain whether an operating system is vulnerable to a particular exploit, run the **show targets** command from within the context of an exploit module to see which targets are supported.

```
msf exploit(ms08_067_netapi) > show targets

Exploit targets:

Id Name
-----
0 Automatic Targeting
1 Windows 2000 Universal
10 Windows 2003 SP1 Japanese (NO NX)
11 Windows 2003 SP2 English (NO NX)
12 Windows 2003 SP2 English (NX)
...snip...
```

#### **ADVANCED**

If you wish the further fine-tune an exploit, you can see more advanced options by running **show advanced**.

```
msf exploit(ms08_067_netapi) > show advanced

Module advanced options:

Name : CHOST
   Current Setting:
   Description : The local client address

Name : CPORT
   Current Setting:
   Description : The local client port

...snip...
```

#### **ENCODERS**

Running **show encoders** will display a listing of the encoders that are available within MSF.

msf > show encoders		
Compatible Encoders		
Name	Disclosure Date	Rank
cmd/generic_sh		good
cmd/ifs		low
cmd/printf_php_mq		manual
generic/none		normal
mipsbe/longxor		normal
mipsle/longxor		normal
php/base64		great
ppc/longxor		normal
ppc/longxor_tag		normal
sparc/longxor_tag		normal
x64/xor		normal
x86/alpha_mixed		low
x86/alpha_upper		low
x86/avoid_utf8_tolower		manual
x86/call4_dword_xor		normal
x86/context_cpuid		manual
x86/context_stat		manual
x86/context_time		manual
x86/countdown		normal
x86/fnstenv_mov		normal
x86/jmp_call_additive		normal
x86/nonalpha		low
x86/nonupper		low
x86/shikata_ga_nai		excellent
x86/single_static_bit		manual
x86/unicode_mixed		manual
x86/unicode_upper		manual
1		<b>&gt;</b>
		<u> </u>

#### **NOPS**

Lastly, issuing the **show nops** command will display the NOP Generators that Metasploit has to offer.

msf > show nops NOP Generators ========			
Name	Disclosure Date	Rank	Descript
armle/simple		normal	Simple
mipsbe/better		normal	Better
php/generic		normal	PHP Nop
ppc/simple		normal	Simple
sparc/random		normal	SPARC NO
tty/generic		normal	TTY Nop
x64/simple		normal	Simple
x86/opty2		normal	Opty2
x86/single_byte		normal	Single E
•			•

## **USE**

When you have decided on a particular module to make use of, issue the **use** command to select it. The **use** command changes your context to a specific module, exposing type-specific commands. Notice in the output below that any global variables that were previously set are already configured.

At any time you need assistance you can use the msfconsole **help** command to display available options.

#### PREVIOUS PAGE

Using the MSFconsole
Interface
(https://www.offensive-security.com/metasploit-unleashed/msfconsole/)

#### **NEXT PAGE >**

Working with Active and
Passive Exploits in
Metasploit
(https://www.offensivesecurity.com/metasploitunleashed/exploits/)

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OSEP Experienced Pentester (https://www.offensivesecurity.com/pen300osep/)

OSWP Wireless Professional (https://www.offensivesecurity.com/wifu-oswp/)

OSEE Exploitation Expert (https://www.offensive-security.com/awe-osee/)

#### PROVING GROUNDS (HOSTED LABS) (HTTPS://WWW.OFFENSIVEOffsec Academy SECURITY.COM/LABS/)

Proving Grounds Play and **Practice** (https://www.offensivesecurity.com/labs/individual/)

**Proving Grounds for Teams** and Orgs (https://www.offensivesecurity.com/labs/enterprise/)

**User-Generated Content** (https://www.offensivesecurity.com/labs/submit/)

#### **SECURITY SERVICES**

(https://www.offensivesecurity.com/academy/)

OffSec for Orgs (https://www.offensivesecurity.com/offsec-fororgs/)

**Authorized Training Partners** (https://www.offensivesecurity.com/offsec-fororgs/training-partners/)

**Penetration Testing** Services (https://www.offensivesecurity.com/penetrationtesting/)

Advanced Attack Simulation (https://www.offensivesecurity.com/penetrationtesting/#other-services)

**Application Security** Assessment (https://www.offensivesecurity.com/penetrationtesting/#asa)

#### **ABOUT OFFSEC** (HTTPS://WWW.OFFENS SECURITY.COM/WHY-OFFSEC/)

Why OffSec (https://www.offensivesecurity.com/why-offsec/)

Leadership Team (https://www.offensivesecurity.com/leadershipteam/)

**Our Core Values** (https://www.offensivesecurity.com/values/)

Try Harder Ethos (/whyoffsec/#try-harder)

Blog (https://www.offensivesecurity.com/blog/)

**Bug Bounty Program** (https://www.offensivesecurity.com/bug-bountyprogram/)

Contact Us (https://www.offensivesecurity.com/contact-us/)

#### **KALI AND** COMMUNITY (HTTPS://WWW.OFFENSIVE Sali Linux Virtual Machines SECURITY.COM/COMMUNI(TYtps://www.offensive-PROJECTS/)

OffSec Community (https://portal.offensivesecurity.com/signup/community)

Kali Linux (https://www.kali.org/)

#### DOWNLOADS

security.com/kali-linux-vmvmware-virtualbox-imagedownload/)

Kali Linux ARM Images (https://www.offensivesecurity.com/kali-linuxarm-images/)

#### **RESOURCES**

Pricing (https://www.offensivesecurity.com/courses-andcertifications/)

FAQ (https://help.offensivesecurity.com/hc/en-us) Kali NetHunter (https://www.kali.org/kalilinux-nethunter/)

Exploit Database (https://www.exploit-db.com/)

VulnHub (https://www.vulnhub.com/)

Google Hacking Database (https://www.exploit-db.com/google-hacking-database)

Metasploit Unleashed (/metasploit-unleashed/)

Kali Linux NetHunter Images (https://www.offensivesecurity.com/kali-linuxnethunter-download/) Careers (https://www.offensive-security.com/careers/)

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