MSFconsole Commands

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MSFconsole Core Commands Tutorial

The MSFconsole has many different command options to chose from. The following are a core set of Metasploit commands with reference to their output.



msfconsole core commands | Metasploit Unleashed

color Toggle color

exit Exit the console

get Gets the value of a context-specific variable

getg Gets the value of a global variable

grep Grep the output of another command

help Help menu

kill a job

load Load a framework plugin

popm Pops the latest module off the stack and makes it active

previous
Sets the previously loaded module as the current module
pushm
Pushes the active or list of modules onto the module stack

quit Exit the console

reload all Reloads all modules from all defined module paths

rename job Rename a job

resource	Run the commands stored in a file
route	Route traffic through a session
save	Saves the active datastores

search Searches module names and descriptions

sessions Dump session listings and display information about sessions

set Sets a context-specific variable to a value

setg Sets a global variable to a value

show Displays modules of a given type, or all modules
sleep Do nothing for the specified number of seconds

spool Write console output into a file as well the screen

unload Unload a framework plugin

unset Unsets one or more context-specific variables

unsetg Unsets one or more global variables

version Show the framework and console library version numbers

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 >
```

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.

```
msf exploit(ms08_067_netapi) > show options
Module options (exploit/windows/smb/ms08_067_netapi):
           Current Setting Required
   Name
                                      Description
   ----
            -----
                                      -----
   RH0ST
           172.16.194.134
                                      The target address
                            yes
   RPORT
           445
                                      Set the SMB service port
                            yes
   SMBPIPE BROWSER
                                      The pipe name to use (BROWSER, SRVSVC)
                            yes
Exploit target:
   Id Name
      Automatic Targeting
   0
msf exploit(ms08_067_netapi) > check
[*] Verifying vulnerable status... (path: 0x0000005a)
[*] System is not vulnerable (status: 0x00000000)
[*] The target is not exploitable.
msf 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 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 netcat, taking advantage of any configured session pivoting.

OPTIONS:

```
-C Try to use CRLF for EOL sequence.
-P <opt>
-P <opt>
Specify source port.
-S <opt>
Specify source address.
-c <opt>
Specify which Comm to use.
-h Help banner.
-i <opt>
Send the contents of a file.
-p <opt>
List of proxies to use.
-s Connect with SSL.
-u Switch to a UDP socket.
-w <opt>
Specify connect timeout.
-z Just try to connect, then return.
```

edit

msf >

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

```
msf exploit(ms10_061_spoolss) > edit
[*] Launching /usr/bin/vim /usr/share/metasploit-framework/modules/exploits/windows/smb/ms10_061
##
# This module requires Metasploit: http//metasploit.com/download
# Current source: https://github.com/rapid7/metasploit-framework
##

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

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

include Msf::Exploit::Remote::DCERPC
    include Msf::Exploit::EXE
    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".

```
msf > grep
Usage: grep [options] pattern cmd
```

Grep the results of a console command (similar to Linux grep command)

OPTIONS:

```
Show arg lines of output After a match.
    - A
    - B
         Show arg lines of output Before a match.
    - C
              Only print a count of matching lines.
    -h
              Help banner.
    -i
              Ignore case.
         Keep (include) arg lines at start of output.
    -k
         Stop after arg matches.
    - m
         Skip arg lines of output before attempting match.
    - S
              Invert match.
    - V
msf >
msf > grep http search oracle
   auxiliary/scanner/http/oracle demantra database credentials leak
                                                                           2014-02-28
                                                                                             normal
   auxiliary/scanner/http/oracle demantra file retrieval
                                                                           2014-02-28
                                                                                             normal
   auxiliary/scanner/http/oracle ilom login
                                                                                             normal
   exploit/multi/http/glassfish deployer
                                                                           2011-08-04
                                                                                             excell
   exploit/multi/http/oracle_ats_file_upload
                                                                           2016-01-20
                                                                                             excell
   exploit/multi/http/oracle_reports_rce
                                                                           2014-01-15
                                                                                             great
   exploit/windows/http/apache chunked
                                                                           2002-06-19
                                                                                             good
   exploit/windows/http/bea_weblogic_post_bof
                                                                           2008-07-17
                                                                                             great
   exploit/windows/http/oracle9i xdb pass
                                                                           2003-08-18
                                                                                             great
   exploit/windows/http/oracle beehive evaluation
                                                                           2010-06-09
                                                                                             excell
   exploit/windows/http/oracle beehive prepareaudiotoplay
                                                                           2015-11-10
                                                                                             excell
   exploit/windows/http/oracle_btm_writetofile
                                                                           2012-08-07
                                                                                             excell
   exploit/windows/http/oracle_endeca_exec
                                                                           2013-07-16
                                                                                             excell
   exploit/windows/http/oracle event processing upload
                                                                           2014-04-21
                                                                                             excell
   exploit/windows/http/osb uname jlist
                                                                           2010-07-13
                                                                                             excell
```

help

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

```
msf > help

Core Commands
========

Command Description
```

```
? Help menu
```

banner Display an awesome metasploit banner cd Change the current working directory

color Toggle color

connect Communicate with a host

...snip...

Database Backend Commands

Command	Description
db_connect	Connect to an existing database
db_disconnect	Disconnect from the current database instance
db_export	Export a file containing the contents of the database
db_import	<pre>Import a scan result file (filetype will be auto-detected)</pre>

info

...snip...

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

```
msf exploit(ms09_050_smb2_negotiate_func_index) > info exploit/windows/smb/ms09_050_smb2_negoti

    Name: Microsoft SRV2.SYS SMB Negotiate ProcessID Function Table Dereference
    Module: exploit/windows/smb/ms09_050_smb2_negotiate_func_index
    Version: 14774
    Platform: Windows
Privileged: Yes
    License: Metasploit Framework License (BSD)
        Rank: Good

Provided by:
Laurent Gaffie
```

sf

```
Available targets:

Id Name
```

tu Name

0 Windows Vista SP1/SP2 and Server 2008 (x86)

Basic options:

Name	Current Setting	Required	Description
RH0ST		yes	The target address
RP0RT	445	yes	The target port
WAIT	180	yes	The number of seconds to wait for the attack to complete.

Payload information:

Space: 1024

Description:

This module exploits an out of bounds function table dereference in the SMB request validation code of the SRV2.SYS driver included with Windows Vista, Windows 7 release candidates (not RTM), and Windows 2008 Server prior to R2. Windows Vista without SP1 does not seem affected by this flaw.

References:

```
http://www.microsoft.com/technet/security/bulletin/MS09-050.mspx
http://cve.mitre.org/cgi-bin/cvename.cgi?name=2009-3103
http://www.securityfocus.com/bid/36299
http://www.osvdb.org/57799
http://seclists.org/fulldisclosure/2009/Sep/0039.html
http://www.microsoft.com/technet/security/Bulletin/MS09-050.mspx
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.

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

```
msf > load
Usage: load [var=val var=val ...]

Loads a plugin from the supplied path. If path is not absolute, first looks
in the user's plugin directory (/root/.msf4/plugins) then
in the framework root plugin directory (/usr/share/metasploit-framework/plugins).
The optional var=val options are custom parameters that can be passed to plugins.

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.

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

Run the commands stored in the supplied files. Resource files may also contain 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@127.0.0.1/msfbook
resource (karma.rc_.txt)> use auxiliary/server/browser_autopwn
...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.

Frustrated with proxy pivoting? Upgrade to layer-2 VPN pivoting with Metasploit Pro -- type 'go_pro' to launch it now.

```
=[ metasploit v4.8.2-2014021901 [core:4.8 api:1.0] ]
+ -- --=[ 1265 exploits - 695 auxiliary - 202 post ]
+ -- --=[ 330 payloads - 32 encoders - 8 nops ]
```

[*] Processing version.rc for ERB directives.

|/ |___/ ___/ / ___/ /

resource (version.rc)> version Framework: 4.8.2-2014022601 Console : 4.8.2-2014022601.15168

msf >

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.

```
meterpreter > route -h
Route traffic destined to a given subnet through a supplied session.
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 192.168.0.0 through session 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 host or network
    route get 192.168.0.11
meterpreter >
meterpreter > route
Network routes
    Subnet
                     Netmask
                                      Gateway
    -----
                     -----
                                       -----
    0.0.0.0
                     0.0.0.0
                                      172.16.1.254
```

127.0.0.1

172.16.1.100

255.255.255.0

255.0.0.0

127.0.0.0

172.16.1.0

```
172.16.1.100
                255.255.255.255 127.0.0.1
172.16.255.255
                 255.255.255.255 172.16.1.100
                                  172.16.1.100
224.0.0.0
                 240.0.0.0
255.255.255.255 255.255.255.255 172.16.1.100
```

search

The msfconsole includes an extensive regular-expression 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.

```
msf > search usermap_script
Matching Modules
                                    Disclosure Date Rank
  Name
                                                              Description
                                    _____
                                                              -----
  exploit/multi/samba/usermap script 2007-05-14
                                                    excellent Samba "username map script" C
msf >
```

help

platform

You can further refine your searches by using the built-in keyword system.

```
msf > help search
Usage: search [keywords]
Keywords:
            : Modules that are client or server attacks
  app
              Modules written by this author
  author
  bid
              Modules with a matching Bugtrag ID
              Modules with a matching CVE ID
  cve
  edb
              Modules with a matching Exploit-DB ID
  name
              Modules with a matching descriptive name
              Modules affecting this platform
```

```
ref : Modules with a matching ref
```

type : Modules of a specific type (exploit, auxiliary, or post)

Examples:

search cve:2009 type:exploit app:client

msf >

name

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

msf > search name:mysql

Matching Modules

Name	Disclosure Date	Rank	Description
auxiliary/admin/mysql/mysql_enum		normal	MySQL Enumerat
auxiliary/admin/mysql/mysql_sql		normal	MySQL SQL Gene
auxiliary/analyze/jtr_mysql_fast		normal	John the Rippe
<pre>auxiliary/scanner/mysql/mysql_authbypass_hashdump</pre>	2012-06-09	normal	MySQL Authenti
<pre>auxiliary/scanner/mysql/mysql_hashdump</pre>		normal	MYSQL Password
<pre>auxiliary/scanner/mysql/mysql_login</pre>		normal	MySQL Login Ut
<pre>auxiliary/scanner/mysql/mysql_schemadump</pre>		normal	MYSQL Schema D
<pre>auxiliary/scanner/mysql/mysql_version</pre>		normal	MySQL Server V
exploit/linux/mysql/mysql_yassl_getname	2010-01-25	good	MySQL yaSSL Ce
exploit/linux/mysql/mysql_yassl_hello	2008-01-04	good	MySQL yaSSL SS
exploit/windows/mysql/mysql_payload	2009-01-16	excellent	Oracle MySQL f
exploit/windows/mysql/mysql_yassl_hello	2008-01-04	average	MySQL yaSSL SS
nsf >			

platform

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

msf > search platform:aix

Matching Modules

	Name	Disclosure Date	Rank	Description
	payload/aix/ppc/shell_bind_tcp		normal	AIX Command Shell, Bind TCP In
	payload/aix/ppc/shell_find_port		normal	AIX Command Shell, Find Port I
	payload/aix/ppc/shell_interact		normal	AIX execve shell for inetd
	.snip			
4				

type

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

```
msf > search type:post
Matching Modules
_____
                                                   Disclosure Date Rank
  Name
                                                                          Description
                                                   -----
                                                                          -----
                                                                         Linux Gather Vir
  post/linux/gather/checkvm
                                                                   normal
  post/linux/gather/enum_cron
                                                                   normal
                                                                          Linux Cron Job E
  post/linux/gather/enum_linux
                                                                   normal Linux Gather Sys
...snip...
```

author

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

```
msf > search author:dookie
Matching Modules
  Name
                                                               Disclosure Date Rank
                                                                                         Descript
                                                                                          -----
  exploit/osx/http/evocam_webserver
                                                               2010-06-01
                                                                                         MacOS X
                                                                                average
  exploit/osx/misc/ufo_ai
                                                               2009-10-28
                                                                                         UFO: Ali
                                                                                average
  exploit/windows/browser/amaya_bdo
                                                               2009-01-28
                                                                                normal
                                                                                         Amaya Br
...snip...
```

multiple

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

sessions

msf > sessions -h

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

```
Usage: sessions [options] or sessions [id]
Active session manipulation and interaction.
OPTIONS:
    - C
         Run a Meterpreter Command on the session given with -i, or all
    - K
              Terminate all sessions
         Run a command on the session given with -i, or all
    - C
    - h
              Help banner
    -i
         Interact with the supplied session ID
    -k
         Terminate sessions by session ID and/or range
    - l
              List all active sessions
              Quiet mode
    - q
    -r
              Reset the ring buffer for the session given with -i, or all
         Run a script on the session given with -i, or all
    - S
         Set a response timeout (default: 15)
    -t
         Upgrade a shell to a meterpreter session on many platforms
    - u
              List sessions in verbose mode
    - V
              Show extended information in the session table
```

```
Many options allow specifying session ranges using commas and dashes. For example: sessions -s checkvm -i 1,3-5 or sessions -k 1-2,5,6
```

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

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) > set RHOST 172.16.194.134
RHOST => 172.16.194.134
msf auxiliary(ms09_050_smb2_negotiate_func_index) > show options
Module options (exploit/windows/smb/ms09_050_smb2_negotiate_func_index):
    Name    Current Setting Required Description
```

```
RHOST 172.16.194.134 yes The target address
RPORT 445 yes The target port
WAIT 180 yes The number of seconds to wait for the attack to complete.
```

Exploit target:

```
Id Name
-- ---
0 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) > show encoders
Compatible Encoders
```

Name	Disclosure Date	Rank	Description
generic/none		normal	The "none" Encoder
x86/alpha_mixed		low	Alpha2 Alphanumeric Mixedcase Encoder
x86/alpha_upper		low	Alpha2 Alphanumeric Uppercase Encoder
x86/avoid_utf8_tolower		manual	Avoid UTF8/tolower
x86/call4_dword_xor		normal	Call+4 Dword XOR Encoder
x86/context_cpuid		manual	CPUID-based Context Keyed Payload Encoder
x86/context_stat		manual	stat(2)-based Context Keyed Payload Encod
x86/context_time		manual	time(2)-based Context Keyed Payload Encod
x86/countdown		normal	Single-byte XOR Countdown Encoder
x86/fnstenv_mov		normal	Variable-length Fnstenv/mov Dword XOR Enc
x86/jmp_call_additive		normal	Jump/Call XOR Additive Feedback Encoder
x86/nonalpha		low	Non-Alpha Encoder
x86/nonupper		low	Non-Upper Encoder
x86/shikata_ga_nai		excellent	Polymorphic XOR Additive Feedback Encoder
x86/single_static_bit		manual	Single Static Bit
x86/unicode_mixed		manual	Alpha2 Alphanumeric Unicode Mixedcase Enc
x86/unicode_upper		manual	Alpha2 Alphanumeric Unicode Uppercase Enc

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
  _ _ _ _
           _ _ _ _ _
  RH0STS
           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.
```

setg

msf >

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.

```
msf > show
Encoders
=======
  Name
                          Disclosure Date Rank
                                                     Description
                          -----
                                                     -----
                                                     Generic Shell Variable Substitution Comma
  cmd/generic sh
                                          good
  cmd/ifs
                                          low
                                                     Generic ${IFS} Substitution Command Encod
                                                     printf(1) via PHP magic_quotes Utility Co
  cmd/printf_php_mq
                                          manual
...snip...
```

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
                                                       Disclosure Date Rank
                                                                               Description
                                                       _____
                                                                               -----
  admin/2wire/xslt_password_reset
                                                       2007-08-15
                                                                               2Wire Cross-Si
                                                                       normal
  admin/backupexec/dump
                                                                               Veritas Backup
                                                                       normal
  admin/backupexec/registry
                                                                               Veritas Backup
                                                                       normal
...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
                                                                     Disclosure Date Rank
                                                                                                  De
                                                                     2009-10-07
   aix/rpc_cmsd_opcode21
                                                                                      great
                                                                                                  AΙ
   aix/rpc_ttdbserverd_realpath
                                                                     2009-06-17
                                                                                                  Τo
                                                                                       great
   bsdi/softcart/mercantec_softcart
                                                                     2004-08-19
                                                                                       great
                                                                                                  Me
...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.

```
exploit(ms08_067_netapi) > show payloads
Compatible Payloads
  Name
                                                  Disclosure Date Rank
                                                                           Description
                                                                           -----
                                                   -----
                                                                   ----
   - - - -
  generic/custom
                                                                   normal Custom Payload
  generic/debug trap
                                                                   normal Generic x86 Debug T
  generic/shell_bind_tcp
                                                                   normal Generic Command She
...snip...
```

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:
  Name
            Current Setting Required Description
  RHOST
                             yes
                                       The target address
  RPORT
           445
                             yes
                                       Set the SMB service port
  SMBPIPE BROWSER
                             yes
                                       The pipe name to use (BROWSER, SRVSVC)
Exploit target:
   Id Name
       Automatic Targeting
   0
```

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:
```

: The local client port

encoders

Name

...snip...

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

Disclosure Date Rank

Description

Ttaine	Discressa. e pare	· · · · · · · · · · · · · · · · · · ·	50501 1 p c 1 o 11
cmd/generic_sh		good	Generic Shell Variable Substitution Comma
cmd/ifs		low	Generic \${IFS} Substitution Command Encod
cmd/printf php ma		manual	<pre>printf(1) via PHP magic guotes Utility Co</pre>

Description

019	Msfconsole Commands -	Metasploit Unleashed
generic/none	normal	The "none" Encoder
mipsbe/longxor	normal	XOR Encoder
mipsle/longxor	normal	XOR Encoder
php/base64	great	PHP Base64 encoder
ppc/longxor	normal	PPC LongXOR Encoder
ppc/longxor_tag	normal	PPC LongXOR Encoder
sparc/longxor_tag	normal	SPARC DWORD XOR Encoder
x64/xor	normal	XOR Encoder
x86/alpha_mixed	low	Alpha2 Alphanumeric Mixedcase Encoder
x86/alpha_upper	low	Alpha2 Alphanumeric Uppercase Encoder
x86/avoid_utf8_tolower	manual	Avoid UTF8/tolower
x86/call4_dword_xor	normal	Call+4 Dword XOR Encoder
x86/context_cpuid	manual	CPUID-based Context Keyed Payload Encoder
x86/context_stat	manual	stat(2)-based Context Keyed Payload Encod
x86/context_time	manual	time(2)-based Context Keyed Payload Encod
x86/countdown	normal	Single-byte XOR Countdown Encoder
x86/fnstenv_mov	normal	Variable-length Fnstenv/mov Dword XOR Enc
x86/jmp_call_additive	normal	Jump/Call XOR Additive Feedback Encoder
x86/nonalpha	low	Non-Alpha Encoder
x86/nonupper	low	Non-Upper Encoder
x86/shikata_ga_nai	excellent	Polymorphic XOR Additive Feedback Encoder
x86/single_static_bit	manual	Single Static Bit
x86/unicode_mixed	manual	Alpha2 Alphanumeric Unicode Mixedcase Enc
x86/unicode_upper	manual	Alpha2 Alphanumeric Unicode Uppercase Enc

nops

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

Name	Disclosure Date	Rank	Description
armle/simple		normal	Simple
mipsbe/better		normal	Better
php/generic		normal	PHP Nop Generator
ppc/simple		normal	Simple
sparc/random		normal	SPARC NOP Generator
tty/generic		normal	TTY Nop Generator
x64/simple		normal	Simple

x86/opty2 x86/single_byte normal Opty2
normal Single Byte

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.

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