

Using Nmap results in Metasploit

* with db_autopwn*

Ivan Bütler – September 8th, 2009



Using NMAP results in Metasploit

After writing my tutorial about importing nmap xml results into Nessus, some readers pointed out writing some similar tutorial about re-using nmap results in the Metasploit framework.

Metasploit 3.X comes with built-in database and nmap support. This small tutorial shows how to attach your mysql database to the metasploit framework, how to import nmap xml output and describes basic steps using the auto-exploit functionality autopwn (db_autopwn).

Load MySQL Driver

Before you start, you should update your metasploit framework (svn update) and load the mysql driver within the metasploit console.

```
[root@tycoon framework-3.2]# ./msfconsole

      o               8      o  o
      8               8      8
ooYoYo. .oPYo.  o8P .oPYo. .oPYo. .oPYo. 8 .oPYo. o8  o8P
8' 8 8 8oooo8 8 .oooo8 Yb.. 8 8 8 8 8 8 8
8 8 8 8.      8 8 8 'Yb. 8 8 8 8 8 8 8
8 8 8 `Yooo' 8 `YooP8 `YooP' 8YooP' 8 `YooP' 8 8
.....:.....:8.....:
:.....:8:
:.....:
:.....:

      =[ msf v3.2-release
+ -- --=[ 321 exploits - 217 payloads
+ -- --=[ 20 encoders - 6 nops
      =[ 99 aux

msf > load db_mysql
[*] Successfully loaded plugin: db_mysql
msf >
```

PS: See Appendix A for a list of supported db commands.

Create Result Table & Connect to MySQL

Create the mysql database for your metasploit results and the structure to load your nmap xml results.

```
msf > db_create root:mypassword@localhost/myscan
[*] Database creation complete (check for errors)
msf > db_connect root:mypassword@localhost/myscan
```

The above commands create a new tables "myscan" and let metasploit using it.

Load Nmap XML into Metasploit MySQL database

The next command loads your nmap xml files directly into your newly created database "myscan"

```
msf > db_import_nmap_xml /opt/data/nmap/compass-security/compass-scan.xml
```

Call Nmap from Metasploit Console and load results into MySQL

Instead of importing nmap xml results into metasploit, direct calling nmap is supported too.

```
msf > db_nmap localhost -O --reason
[*] exec: "/usr/bin/nmap" "localhost" "-O" "--reason" "-oX" "/tmp/dbnmap.3889.3"
NMAP:
NMAP: Starting Nmap 5.00 ( http://nmap.org ) at 2009-09-08 11:31 CEST
NMAP: Interesting ports on tycoon (127.0.0.1):
NMAP: Not shown: 998 closed ports
NMAP: Reason: 998 resets
NMAP: PORT      STATE SERVICE      REASON
NMAP: 902/tcp    open  iss-realsecure syn-ack
NMAP: 3306/tcp   open  mysql        syn-ack
NMAP: Device type: general purpose
NMAP: Running: Linux 2.6.X
NMAP: OS details: Linux 2.6.15 - 2.6.27
NMAP: Network Distance: 0 hops
```

List of Hosts

Use the db_hosts command to identify scanned hosts.

```
msf > db_hosts
[*] Time: Tue Sep 08 11:30:57 +0200 2009 Host: 127.0.0.1 Status: alive OS:
```

List of Services

Use the db_services command to list identified services.

```
msf > db_services
[*] Time: Tue Sep 08 11:30:57 +0200 2009 Service: host=127.0.0.1 port=902 proto=tcp state=up name=iss-realsecure
[*] Time: Tue Sep 08 11:30:57 +0200 2009 Service: host=127.0.0.1 port=3306 proto=tcp state=up name=mysql
```

Automated Exploitation

Use `db_autopwn -p -e` for automatic exploitation

```
msf > db_autopwn -p -e
[*] (1/510): Launching exploit/windows/http/savant_31_overflow against 127.0.0.1:80...

[-] Exploit failed: No encoders encoded the buffer successfully.
[*] (3/510): Launching exploit/unix/webapp/barracuda_img_exec against 127.0.0.1:80...
```

Thank You

Thank you for reading this tutorial. Feedback is as welcomed. More readings can be found on

<http://www.hacking-lab.com/download/>

Regards

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Compass Security AG

Appendix A

List of Metasploit Commands with Database Backend

```
msf > help
```

Database Backend Commands

```
=====
```

Command	Description
-----	-----
db_add_host	Add one or more hosts to the database
db_add_note	Add a note to host
db_add_port	Add a port to host
db_autopwn	Automatically exploit everything
db_hosts	List all hosts in the database
db_import_nessus_nbe	Import a Nessus scan result file (NBE)
db_import_nmap_xml	Import a Nmap scan results file (-oX)
db_nmap	Executes nmap and records the output automatically
db_notes	List all notes in the database
db_services	List all services in the database
db_vulns	List all vulnerabilities in the database

MySQL Database Commands

```
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```

Command	Description
-----	-----
db_connect	Connect to an existing database (user:pass@host:port/db)
db_create	Create a brand new database (user:pass@host:port/db)
db_destroy	Drop an existing database (user:pass@host:port/db)
db_disconnect	Disconnect from the current database instance

Core Commands

```
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```

Command	Description
-----	-----
?	Help menu
back	Move back from the current context
banner	Display an awesome metasploit banner
cd	Change the current working directory
exit	Exit the console
help	Help menu
info	Displays information about one or more module
irb	Drop into irb scripting mode
jobs	Displays and manages jobs
load	Load a framework plugin
loadpath	Searches for and loads modules from a path
quit	Exit the console
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 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
unload	Unload a framework plugin
unset	Unsets one or more variables
unsetg	Unsets one or more global variables
use	Selects a module by name
version	Show the console library version number