Metasploit – Storing Pen Test Results

mpentestlab.blog/category/general-lab-notes/page/5

February 17, 2013

Penetration testers are using different tools and methods in order to keep their penetration testing results. If our preference is to use Metasploit Framework for our activities then we can use the store our results in its database as Metasploit is already integrated with postgresql. This can prove very handy as many penetration tests can run for several days and we will need to have our results in a centralized environment for later use. This will help us not only in the reporting stage but and in the exploitation stage as we constructing our attack path.

If we want to check our database settings we need to type the following commands as the image below indicates:

```
t:~# cd /opt/metasploit/config/
      ht:/opt/metasploit/config# cat database.yml
  These settings are for the database used by the Metasploit Framework
  unstable tree included in this installer, not the commercial editions
development:
  adapter: "postgresql"
  database: "msf3dev"
  username: "msf3"
  password: "4bfedfc2"
  port: 7337
  host: "localhost"
  pool: 256
  timeout: 5
production:
  adapter: "postgresql'
database: "msf3dev"
  username: "msf3"
  password: "4bfedfc2
  port: 7337
  host: "localhost"
```

Database Settings

The information that we have obtained above it can be used for connection with the database through the metasploit framework.if we want to check the available database commands we can run the command **help** in the metasploit console.

```
Database Backend Commands
   Command
                      Description
    creds
                      List all credentials in the database
                      Connect to an existing database
   db connect
   db disconnect
                      Disconnect from the current database instance
                      Export a file containing the contents of the database
   db export
                     Import a scan result file (filetype will be auto-detected)
   db import
                      Executes nmap and records the output automatically
   db nmap
   db rebuild cache Rebuilds the database-stored module cache
   db status
                      Show the current database status
   hosts
                      List all hosts in the database
                      List all loot in the database
    loot
                      List all notes in the database
   notes
                      List all services in the database
List all vulnerabilities in the database
    services
    vulns
   workspace
                       Switch between database workspaces
```

Metasploit - Database Commands

Now if we want to connect with the existing database or with another database that we have created we can use the following command:

db_connect username:password@IP:Port/database_name

Now lets say that we have to perform a scan in an IP address. We can use directly the command db_nmap IP from the metasploit console which it will scan the target and automatically it will store the results in the database.

```
<u>msf</u> > db nmap 192.168.1.84
[*] Nmap: Starting Nmap 5.61TEST4 ( http://nmap.org ) at 2013-02-17 07:20 EST
[*] Nmap: Nmap scan report for 192.168.1.84
[*] Nmap: Host is up (0.00098s latency).
[*] Nmap: Not shown: 995 closed ports
[*] Nmap: PORT
                  STATE SERVICE
[*] Nmap: 135/tcp open
                         msrpc
 Nmap: 139/tcp open
                         netbios-ssn
   Nmap: 445/tcp open microsoft-ds
[*] Nmap: 1025/tcp open
                        NFS-or-IIS
[*] Nmap: 1026/tcp open
                        LSA-or-nterm
   Nmap: MAC Address: 00:50:56:BB:00:86 (VMware)
   Nmap: Nmap done: 1 IP address (1 host up) scanned in 0.66 seconds
```

Metasploit - Nmap Scan

Now if want to check the results in the database we can use the following commands:

- creds
- loot
- hosts
- services
- vulns
- notes

The following two pictures are just a sample of the commands hosts and services.

```
      msf > hosts

      Hosts

      =====

      address mac comments

      172.16.36.136

      Unknown device

      192.168.1.84
      00:50:56:BB:00:86

      Unknown device
```

List Hosts – Metasploit Database



List Services - Metasploit Database

Another thing that we can do here is to export the results in an XML format in order to use it with other tools like Dradis Framework.

```
msf > db_export /root/Desktop/pentestlab.txt
[*] Starting export of workspace default to /root/Desktop/pentestlab.txt [ xml]
...
[*] >> Starting export of report
[*] >> Starting export of hosts
[*] >> Starting export of events
[*] >> Starting export of services
[*] >> Starting export of credentials
[*] >> Starting export of web sites
[*] >> Starting export of web pages
[*] >> Starting export of web forms
[*] >> Starting export of web vulns
[*] >> Starting export of module details
[*] >> Finished export of report
[*] Finished export of workspace default to /root/Desktop/pentestlab.txt [ xml]..._
```

Export Results From Metasploit Database

Conclusion

In this article we saw how we can use the database with metasploit in order to store information from a port scan that we performed. We can use this functionality as well in order to import results from other tools like Nessus or to export the results for integration with Dradis. This function of Metasploit Framework offers the penetration tester the ability to manage his results in an efficient way.