

Using ExploitDB and Metasploit for Vulnerability Research



When conducting a penetration test there are two types of tools, we can use to help us identify exploits for specific vulnerabilities. These tools are called ExploitDB and Metasploit. ExploitDB tools for vulnerability research is called **searchsploit**. For example.

```
$ searchsploit
Usage: searchsploit [options] term1 [term2] ... [termN]
. . . . .
-c, --case [Term]      Perform a case-sensitive search.
-e, --exact [Term]     Perform an EXACT & order match on exploit title.
-s, --strict           Perform a strict search.
-t, --title [Term]     Search JUST the exploit title.
. . . . .
```

We can use **searchsploit** to search for specific vulnerabilities. Critical to the success of this is our ability to identify and profile the target system. So, suppose that we want to look for a local vulnerability on Windows Server 2003, then we could do the following:

```
$ searchsploit local Windows 2003
. . . . .
Microsoft Windows XP/2003 - 'afd.sys' Local Privilege Escalation (MS08-066)
                                   | windows/local/6757.txt
Microsoft Windows XP/2003 - 'afd.sys' Local Privilege Escalation (MS11-080)
                                   | windows/local/18176.py
. . . . .
```

We can now compile, upload and use the exploits as part of a penetration test. Metasploit provides a similar search capability via the search command. For Example:

```
$ msfconsole
. . . . .
msf6 > search
Usage: search [<options>] [<keywords>:<value>]
. . . . .
msf6 >
```

Metasploit allows us to search for vulnerabilities in terms of CVE numbers, Bugtraq ID numbers, type of exploit, the platform that the exploit is required to run on. For example:

```
msf6 > search CVE:2009 type:exploit MS09

#  Name                                     Disclosure Date      Rank.   Check      Description
-  -
0  exploit/windows/browser/ms09_002_memory_corruption  2009-02-10          normal
No  MS09-002 Microsoft Internet Explorer 7 CFunctionPointer Uninitialized Memory
Corruption
1  exploit/windows/smb/ms09_050_smb2_negotiate_func_index  2009-09-07          good
No  MS09-050 Microsoft SRV2.SYS SMB Negotiate ProcessID Function Table
Dereference
2  exploit/windows/ftp/ms09_053_ftpd_nlst                2009-08-31          great
No  MS09-053 Microsoft IIS FTP Server NLST Response Overflow
Interact with a module by name or index. For example info 6, use 6 or use
exploit/windows/browser/ms09_043_owc_msdsoc
msf6 >
```

So, in the above examine we are look for CVE exploits published on 2009 that also Microsoft Security Bulletins published on 2009. Use **msfconsole** we can select which exploit we want to use using the **use** command.