

Introduction about Metasploite

Metasploit is a popular and powerful framework used for penetration testing, exploiting vulnerabilities, and security research. It contains a wide range of tools and modules for various tasks in the security testing process. Below are some of the main components and contents of the Metasploit Framework

History of Metasploite:

The Metasploit Framework is a popular open-source tool for developing and executing exploits against a target system. It was first developed by HD Moore in 2003 as a portable network tool using Perl, and has since evolved into a full-featured exploit development platform written in Ruby.

Metasploit Content

Modules:-

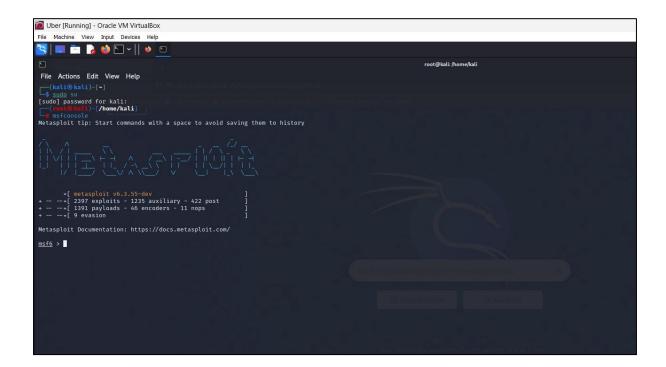
- 1. **Exploit Modules:** These modules are used to take advantage of vulnerabilities in target systems. Each exploit module is designed for a specific vulnerability in software or hardware.
- 2. Payload Modules: Payloads are the code that is executed after a successful exploit. These can range from simple commands to complex shells and reverse shells.
- **3. Auxiliary Modules:** These modules are used for various tasks other than exploitation, such as scanning, fuzzing, DoS (Denial of Service), and enumeration.
- **4. Post-Exploitation Modules:** These modules are used after successfully exploiting a target, helping gather information, escalate privileges, and maintain access.
- **5. Encoders:** Used to modify payloads to bypass security mechanisms, like antivirus software, by encoding them in different ways.
- **6. Nops**: Used to insert "no-op" (NOP) instructions in the payload to ensure it runs successfully, especially when dealing with buffer overflow exploits.
- **7. Evasion:** A category used to avoid detection by firewalls, intrusion detection systems (IDS), and antivirus software.

Interfaces:

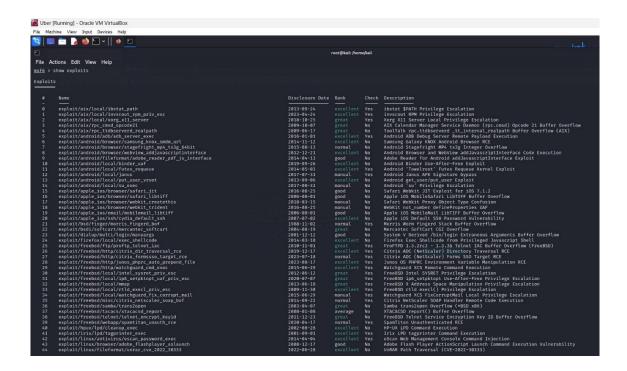
> Metasploite has different interfaces to ease our tasks

1. MSFconsole:

msfconsole is the primary command-line interface (CLI) for interacting with the **Metasploit Framework**. It is the most commonly used interface for penetration testers and ethical hackers when performing penetration testing, exploiting vulnerabilities, and post-exploitation activities.



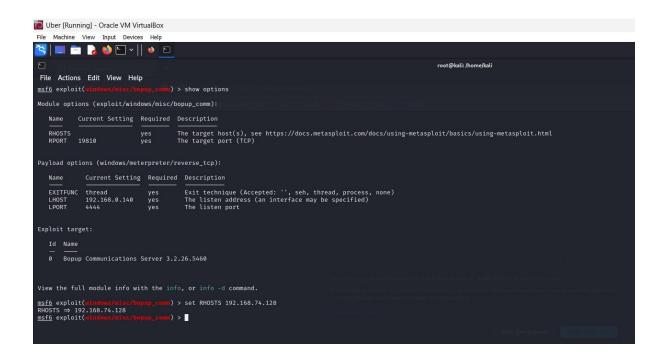
1. Exploit Module:



- > An exploit executes a sequence of commands that targe a specific vulnerability found in a system
- Use a Particular exploits:

```
msf6 > use exploit/windows/misc/bopup_comm
[*] No payload configured, defaulting to windows/meterpreter/reverse_tcp
msf6 exploit(windows/misc/bopup_comm) >
```

• Show Options in Exploits:



Usage:

Open

- 1.Terminal msfconsole -q
- 2. msf6 show exploits (It displays various options)
- 3. msf6 > use exploit/windows/misc/bopup_comm

msf6 exploit (windows/misc/bopup_comm) > show options [It displays various option in this exploit]

4. msf6 exploit (windows/misc/bopup_comm) > set RHOSTS = 192.168.74.128

RHOSTS is a remote host, we should type the victim's ip address