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## PRACTICAL:-9

# **AIM: Exploiting with Metasploit (Kali Linux)**

- Identify a vulnerable system and exploit it using Metasploit modules.
- Gain unauthorized access to the target system and execute commands or extract information.
- Understand the ethical considerations and legal implications of using Metasploit for penetration testing.

#### THEORY:

- The Metasploit Project is a computer security project that provides information about security vulnerabilities and aids in penetration testing and IDS signature development.
- Its best-known sub-project is the open-source Metasploit Framework, a tool for developing and executing exploit code against a remote target machine.
- Other important sub-projects include the Opcode Database, shellcode archive and related research.
- The Metasploit Project includes anti-forensic and evasion tools, some of which are built into the Metasploit Framework.
- Metasploit is pre-installed in the Kali Linux operating system.

## METASPLOIT FRAMEWORK

The free version. It contains a command line interface, third-party import, manual exploitation and manual brute forcing. This free version of the Metasploit project also includes Zenmap, a well known ports-scanner and a compiler for Ruby, the language in which this version of Metasploit was written.

# **METASPLOIT MODULES:**

**PAYLOAD:** When we use the show payloads command the msfconsole will return a list of compatible payloads for this exploit.

**EXPLOIT:** After vulnerability scanning and vulnerability validation, we have to run and test some scripts (called exploits) in order to gain access to a machine and do what we are planning to do.

**RHOST:** RHOST is the ip address of the target system.

LHOST: LHOST is the ip address of the system used to do the hacking.

**LPORT:** LPORT is the local port used when opening a connection.

**reverse\_tcp:** The php/meterpreter/reverse\_tcp is a staged payload used to gain meterpreter access to a compromised system. This is a unique payload in the Metasploit Framework because this payload is one of the only payloads that are used in RFI vulnerabilities in web apps.

**SMB:** SMB, which stands for Server Message Block, is a protocol for sharing files, printers, serial ports, and communications abstractions such as named pipes and mail slots between computers.

### **STEPS:**

- 1. Download and open Metasploit.
- 2. Use exploit to attack the host.
- 3. Create the exploit and add the exploit to the victim's PC.

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4. Get the IP address of your windows operating system. By using ipconfig command on cmd.

```
root@kali:~

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root@kali:~# ifconfig
eth0: flags=4163<UP, BROADCAST, RUNNING, MULTICAST> mtu 1500
    inet 192.168.12.132 netmask 255.255.255.0 broadcast 192.168.12.255
    inet6 fe80::20c:29ff:fe26:358f prefixlen 64 scopeid 0x20cther 00:0c:29:26:35:8f txqueuelen 1000 (Ethernet)
    RX packets 9663 bytes 12970683 (12.3 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 1903 bytes 183701 (179.3 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP, LOOPBACK, RUNNING> mtu 65366
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10</br>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 20 bytes 1116 (1.0 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 20 bytes 1116 (1.0 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

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| File Edit View Exploit (windows/smb/psexec) > set RHOST 192.168.1.29

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```

**CONCLUSION:** Thus we have successfully exploited the Victims PC.

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