### ETHICAL HACKING

#### LAB - ASSIGNMENT - 7

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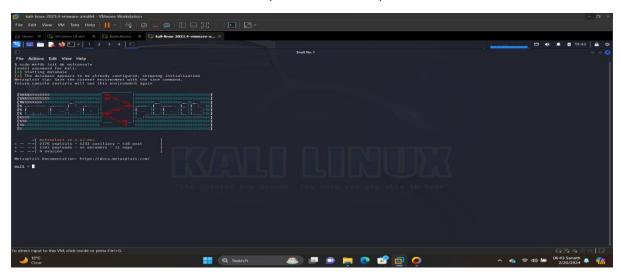
CRN: 22285

## **INTRODUCTION:**

Meterpreter is an advanced, dynamically extensible payload that is a part of the Metasploit Framework, which is primarily used for penetration testing, ethical hacking, and security research. Port forwarding, on the other hand, is a networking technique used to redirect traffic from one network port to another.

Port forwarding with Meterpreter can be helpful for various tasks such as accessing internal services, pivoting through a compromised network, or creating communication channels for further exploitation. However, it's essential to use port forwarding responsibly and within the scope of legal and ethical guidelines, as unauthorized port forwarding can lead to serious legal consequences.

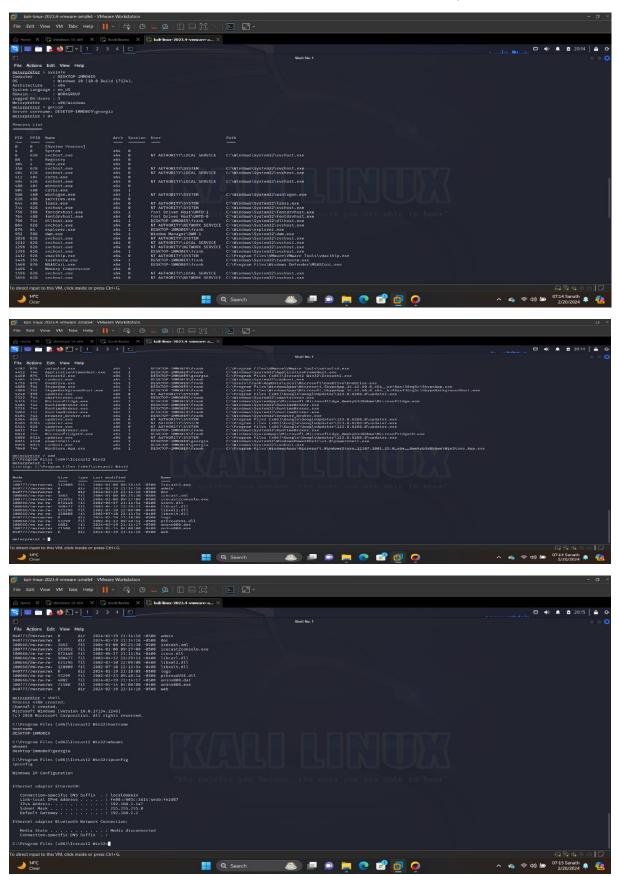
Started msfconsole and we can see 2376 exploits and 1391 Payload here in below screenshot.



In the below screenshot we can see the ,Meterpreter session has been started with id 1

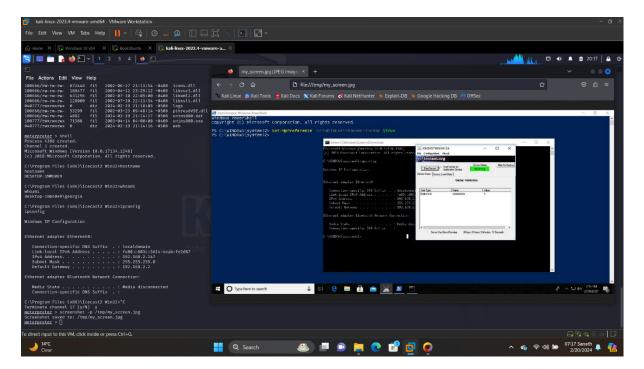


1. Provide the command execution result as Screenshot #1 (5pt)



→meterpreter > screenshot -p /tmp/my\_screen.jpg

When the above command is executed, it captured the screenshot which is in Windows 10 machine as we have started the server on windows 10. Please check the below screenshot.



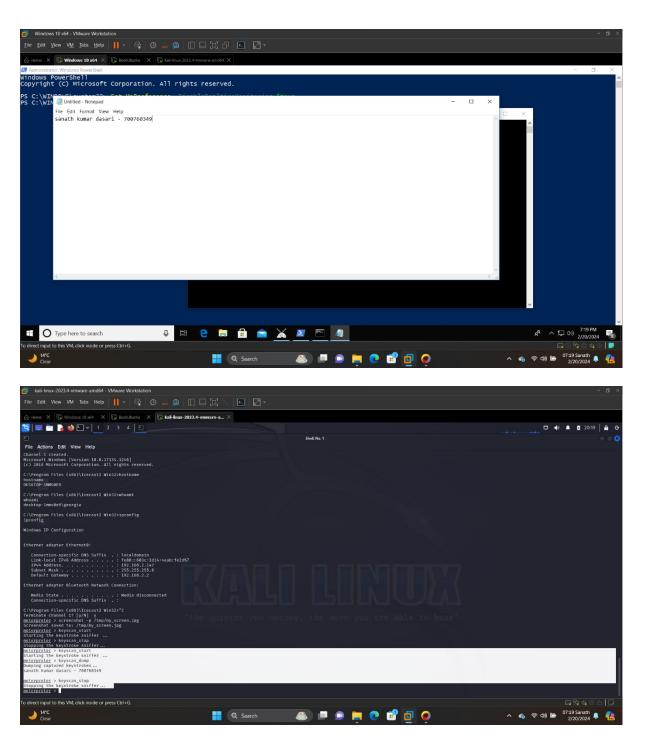
2. Provide screenshots showing the keystroke logger output. Type your full name in the keylogging text (5pt)

In the context of the Meterpreter payload used in penetration testing and ethical hacking, *keyscan\_start* is a command that initiates the capture of keystrokes from the target system. Meterpreter is an advanced, dynamically extensible payload that operates over the stager and stage stages of the Meterpreter client-server architecture.

The *keyscan\_dump* command in Meterpreter is used to retrieve the keystrokes that have been captured by the keystroke sniffer initiated with the keyscan start command.

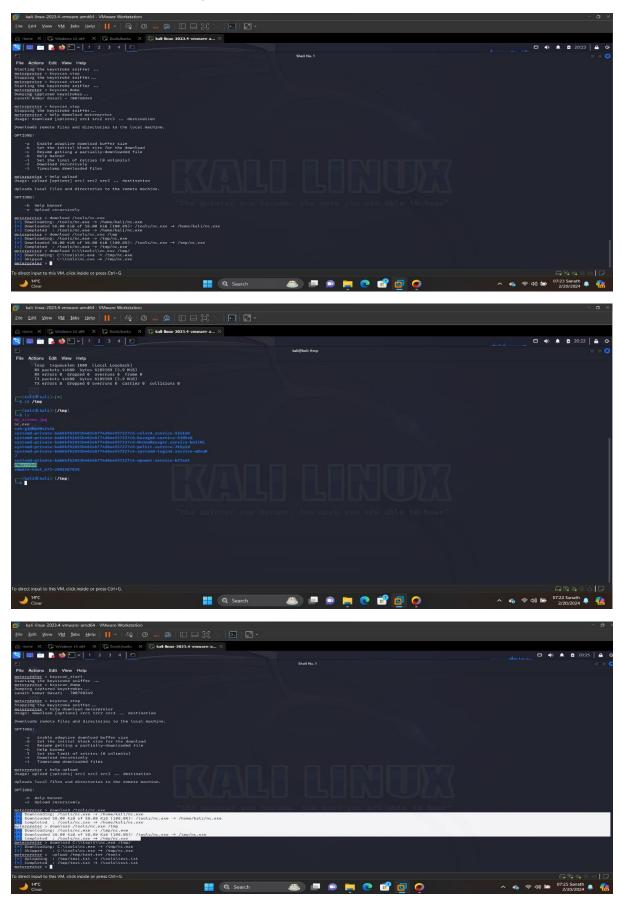
The *keyscan\_stop* command in Meterpreter is used to stop the keystroke sniffer that was initiated with the keyscan start command.

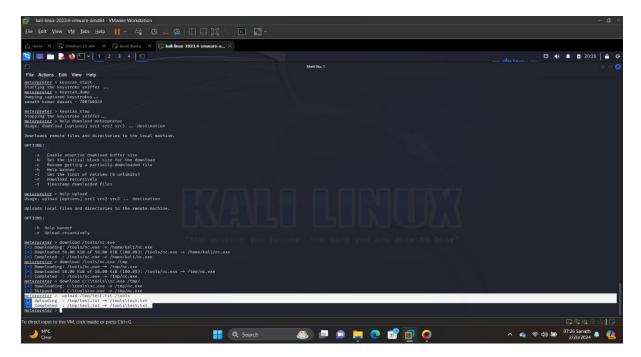
- a) meterpreter > keyscan\_start: execute this command in linux meterpreter.
- b) meterpreter > keyscan\_dump: Move to windows and write text in your notepad in this case I have given my name and ID.



c) meterpreter > keyscan\_stop : Stop the meterpreter keyscan.

→ Downloaded nc.exe file please check the below screenshots.

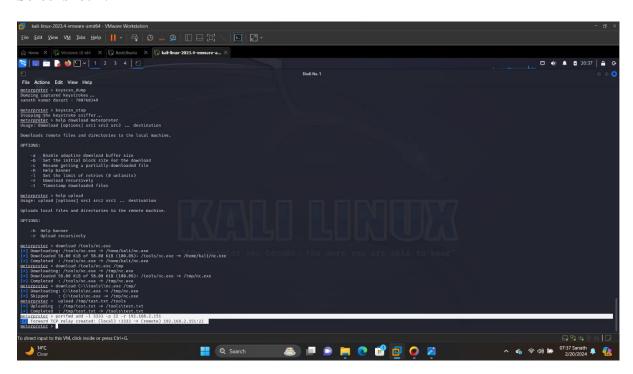




3. Provide command execution results as Screenshot #2, #3 (10pt) Forward TCP relay typically refers to a technique used to forward network traffic from one TCP port on a local machine to another TCP port on a remote machine via a relay server.

Please check the below screenshot for forward tcp relay command and its execution. And after doing tcp relay we tried to connect to ubuntu from kali linux through ssh and provided the screenshot below.

## **Screenshot 2:**



# **Screenshot 3:**

