MY PROJECT

SILENT-BACKDOOR REMOTE ACCESS USING KALI

TEAM CONTROLX:

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PROBLEM STATEMENT

- Most systems lack awareness about how backdoors work.
- Remote Access Tools (RATs) are used maliciously by attackers.

AIM

- To simulate a real-world cyberattack chain using ethical hacking tools in a controlled environment.
- For the Awarness, the entire work will done without damaging any real user or internet device.

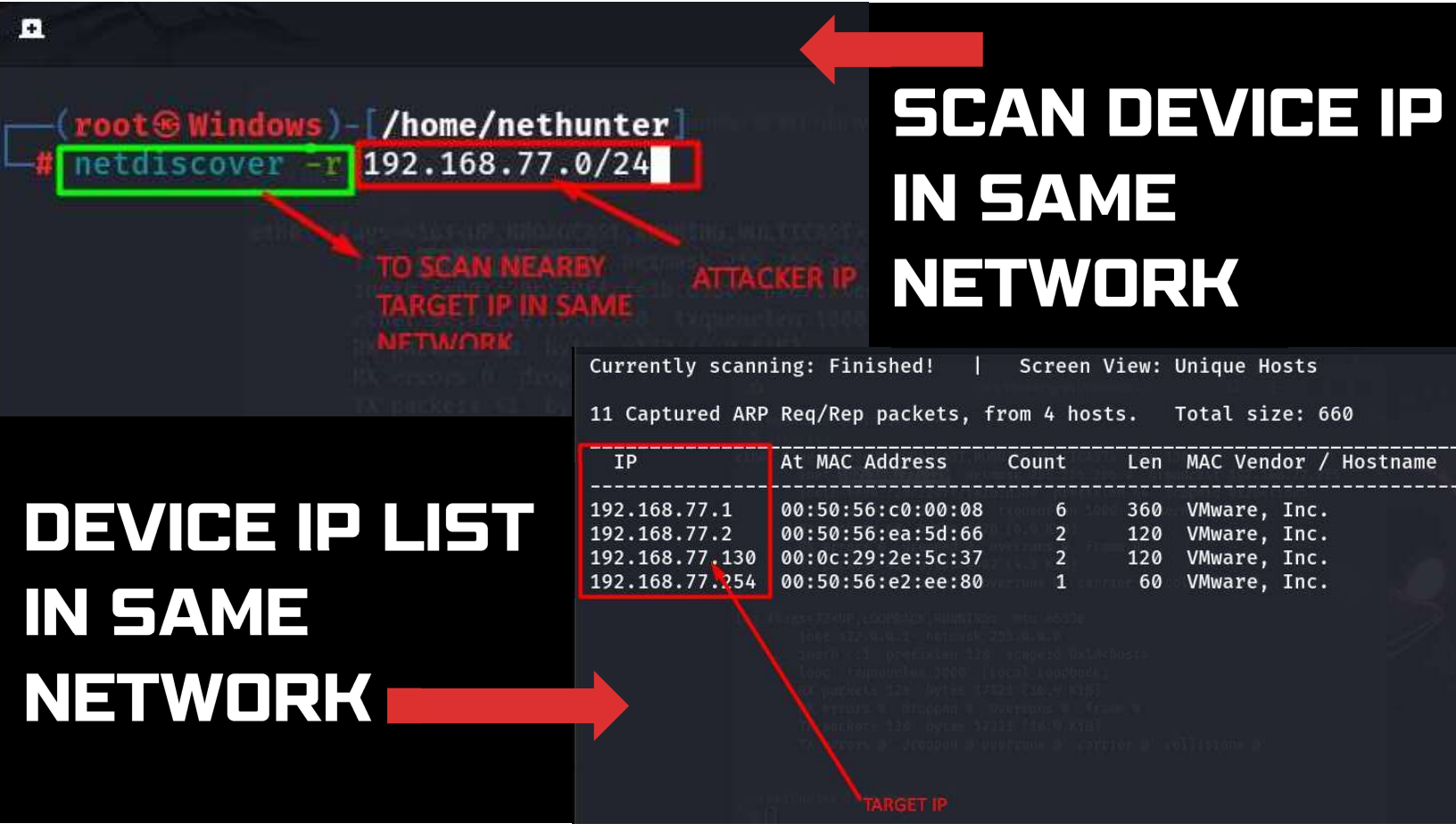
WHAT WE BUILT?

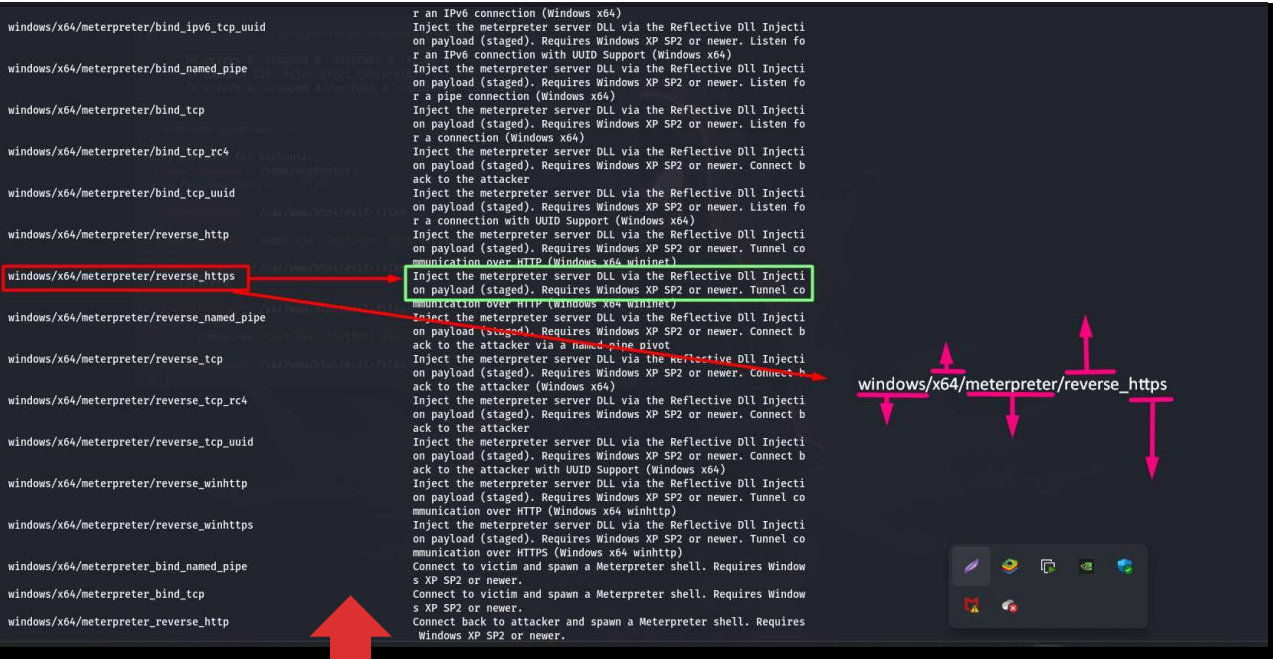
- Simulates silent backdoor entry into a remote Windows system.
- No user interaction required.
- Full remote control post-exploitation.

RECONNAISSANCE → PAYLOAD GENERATION →
EXPLOITATION → SESSION HANDLING → REMOTE COMMAND EXECUTION

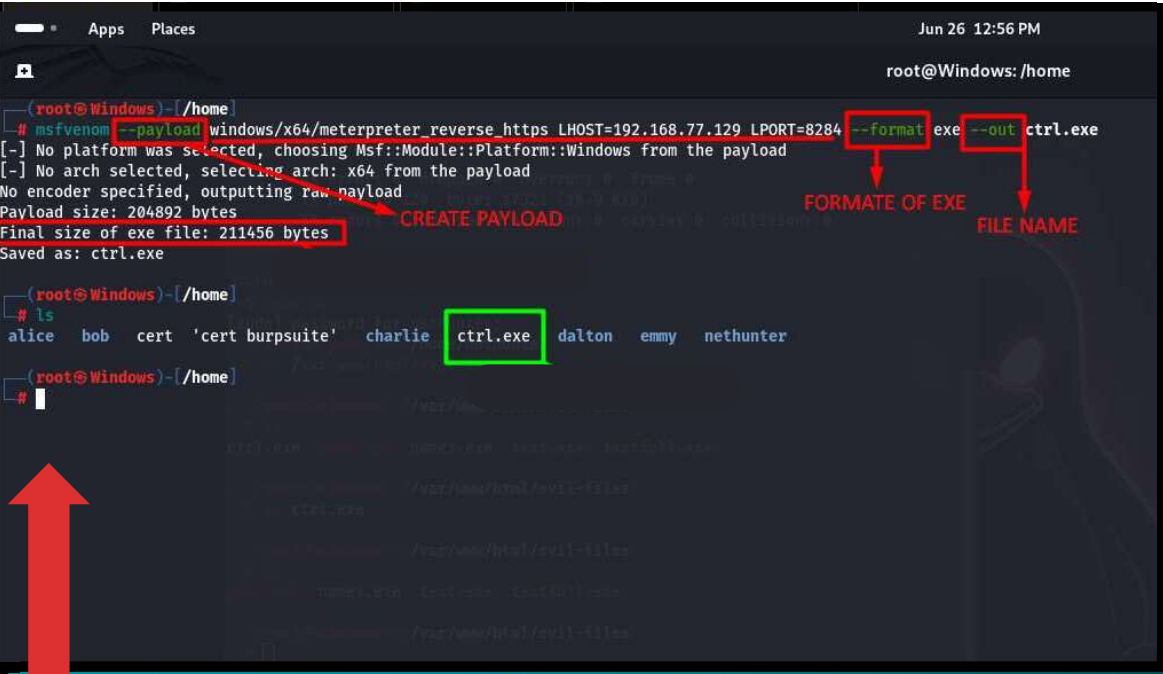
TOOLS & ENVIRONMENT

Category	Tools
OS	Kali Linux, Windows 10
Virtualization	VMware Workstation
Recon	Netdiscover
Exploits	Metasploit
Payload	msfvenom
Delivery	Apache2 web Server
Post-Exploitation	Meterpreter, shell

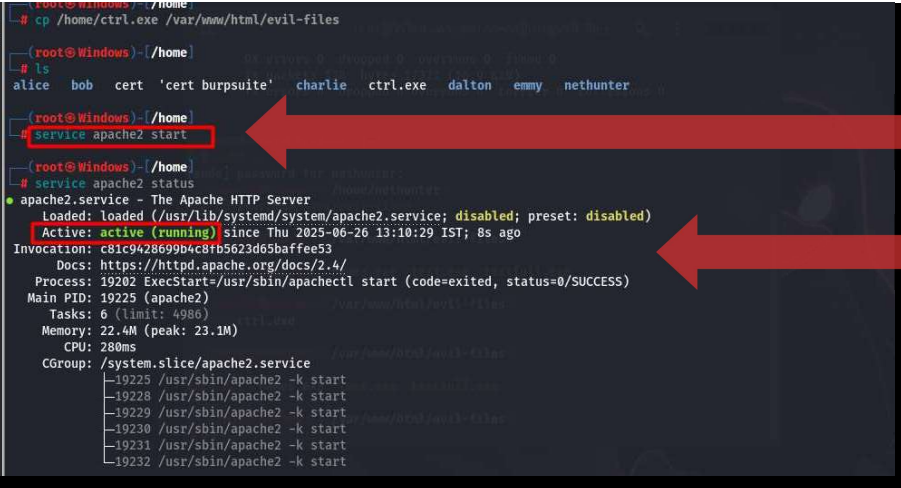

(root㉿Windows)-[/home/nethunter]
netdiscover -r 192.168.77.0/24
TO SCAN NEARBY TARGET IP IN SAME NETWORK
ATTACKER IP
SCAN DEVICE IP IN SAME NETWORK
DEVICE IP LIST IN SAME NETWORK
Currently scanning: Finished! | Screen View: Unique Hosts
11 Captured ARP Req/Rep packets, from 4 hosts. Total size: 660
IP At MAC Address Count Len MAC Vendor / Hostname
192.168.77.1 00:50:56:c0:00:08 6 360 VMware, Inc.
192.168.77.2 00:50:56:ea:5d:66 2 120 VMware, Inc.
192.168.77.130 00:0c:29:2e:5c:37 2 120 VMware, Inc.
192.168.77.254 00:50:56:e2:ee:80 1 60 VMware, Inc.
TARGET IP



METASPLOIT PAYLOAD PATH – USED TO SELECT A SPECIFIC TYPE OF PAYLOAD

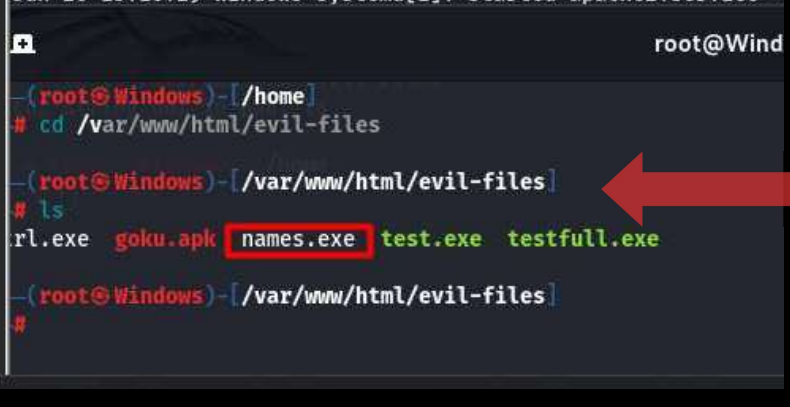


PAYLOAD MODIFICATION (SET LHOST, LPORT & FORMAT, FILE NAME)

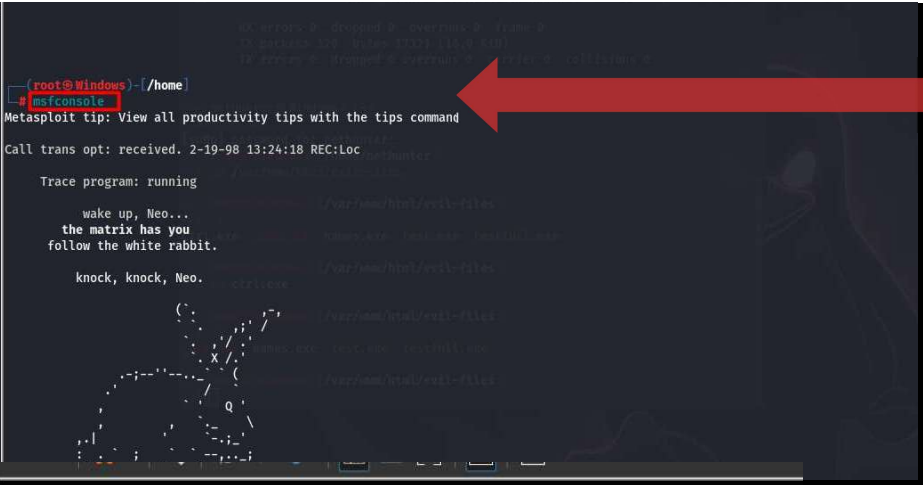


START APACHE2 WEB SERVER

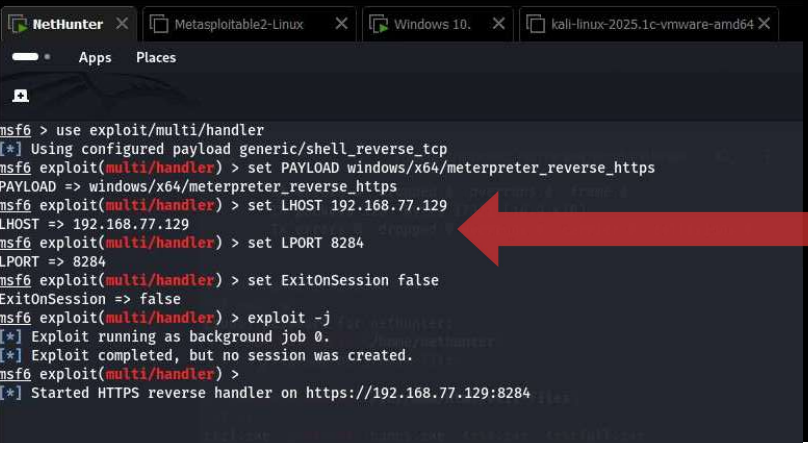
STATUS OF SERVER



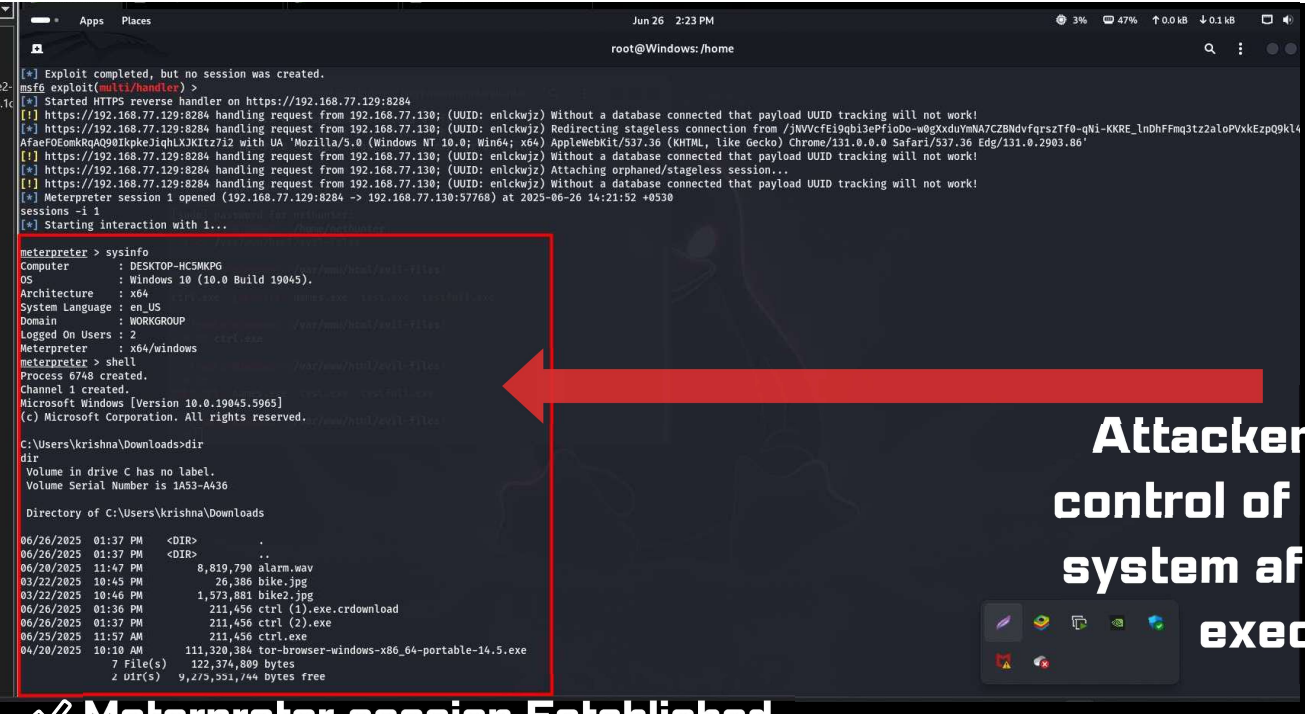
MOVE IT TO APACHE DIRECTORY



LAUNCHES THE METASPLOIT FRAMEWORK TO RUN EXPLOITS AND HANDLE PAYLOADS



- To receive connections from the backdoor payload
- Set Payload Path
- Set LHOST & LPORT
- Keeps the handler active for more incoming sessions
  - Runs the exploit as a background job so it keeps listening

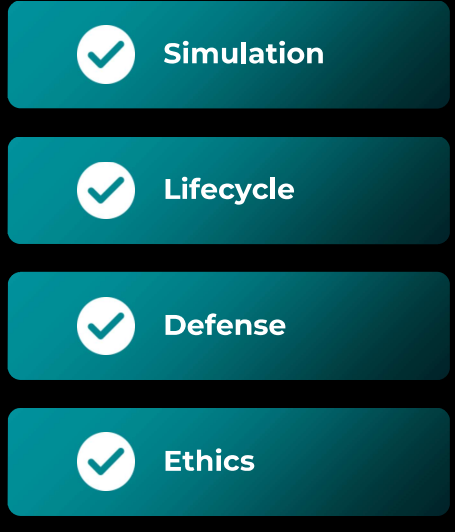


Attacker gains full control of the victim's system after payload execution

- ✓ Meterpreter session Established
- ✓ System info Fetched
- ✓ Shell access Gained
- ✓ Victim's Download folder Accessed

CONCLUSION:

- Successfully simulated a silent remote access attack.
- Demonstrated the real-world attack chain lifecycle.
- Understood importance of network defenses and OS patching.
- All activities conducted in an ethical, isolated lab setup.



FUTURE SCOPE

In future this project can be upgraded to ransomware simulation. In which we will run a fake encryption script through Meterpreter so that public and blue team members can understand the behavior of ransomware attack. This will be in a safe lab setup so that no real damage will occur.