00 - Intro

In this section, we are going to cover in a high level scenario post exploitation. We already learned many techniques on post exploitation.

Here we are reinforcing some concepts/methods, and we are going to be learning pivoting.

01 - File Transfers Review

File Transfers Review

- Certutil
 - certutil.exe –urlcache –f http://10.10.10.10/file.txt file.txt
- HTTP
 - python -m SimpleHTTPServer 80
- Browser
 - · Navigate directly to file
- ETD
 - python -m pyftpdlib 21 (attacker machine)
 - ftp 10.10.10.10
- Linux
 - wget

0000000

These are different ways we can serve and grab files. Sometimes we do not have the one we usually use, so it is good to know other methods as well.

02 - Maintaining Access Overview

MAINTAINING ACCESS

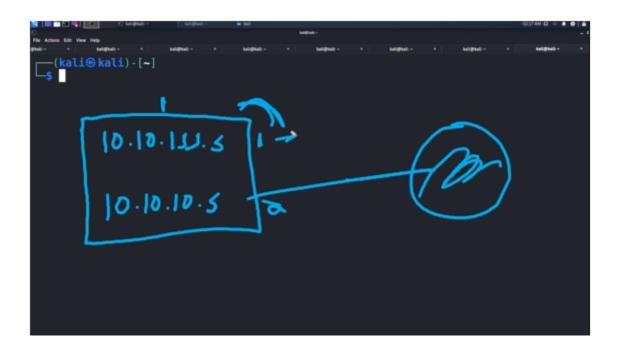
- · Persistence Scripts
 - · run persistence -h
 - exploit/windows/local/persistence
 - · exploit/windows/local/registry_persistence
- Scheduled Tasks
 - · run scheduleme
 - run schtaskabuse
- Add a user
 - net user hacker password 123 /add

This means that if it was to happen something to the machine we are on, we could easily get that access back.

We can always stay with the simple and create a user and psexec to that user. There are other methods where we can run Metasploit methods for persistent.

03 - Pivoting Overview

Image we have compromised a machine, and that machine allows access to two Network Interfaces. And those Network Interfaces share a new network that was originally not available to us.



We were first pentesting 1010.155.5 network, and on this particular machine, we saw that we also had this 10.10.10.5 network connected to it. So now, if we want to "move" (pivot) to the other network and starting attacking it, we can do the following.

The scenario is going to look something like this, if we are on an ubuntu machine.

```
The Actions DER Vivos Into

Incomplete Service Service Into

Incomplete Service Service Into

Incomplete Service Servi
```

We can see eth0 and eth1 are ip addresses.

At this moment, we do not have any access to the eth1 network (10.10.10.5/24). We do not have a route to that network.

Now, we need to install a pivot in this machine, so we can access this new network.

There are a couple of ways of doing so, the next lesson is going to show the tools we can use, and how to use them.

04 - Pivoting Walkthrough

1 - Proxychains

First, we need to cat the config file.

"#cat /etc/proxychain.conf" or what ever the config file is named.

At the very bottom of the file, we have this "socks4", a local host ip address, and then another number which actually is a port number

```
Examples:
                  socks5
                            192.168.67.78
                                               1080
                                                         lamer
                                                                  secret
                            192.168.89.3
                  http
                                               8080
                                                         justu
                                                                  hidden
                   socks4
                            192.168.1.49
                                               1080
                            192.168.39.93
                                               8080
                  http
         proxy types: http, socks4, socks5
  ( auth types supported: "basic"-http "user/pass"-socks )
[ProxyList]
# add proxy here ...
 meanwile
# defaults set to "tor"
socks4 127.0.0.1 9050
   (kali⊗kali)-[~]
```

These are what we are going to be utillizing. We need to use the same port as the one in the proxychain config file.

We can always update our config file and chose another port or maybe if we need we can add a second pivot.

Now, what we are going to do is an ssh connection to bind to that connection.



- -i is identiy
- -f is to background the ssh section
- -N means we do not want execute remote commands
- -D is the port we want to bind to

See that the ip address is not the one we want to move, but it is the one we currently are on.

We established a connection to this machine, so now we can proxy our traffic through the machine to access the next network (10.10.10.5/24).

We can run nmap through proxy chain:

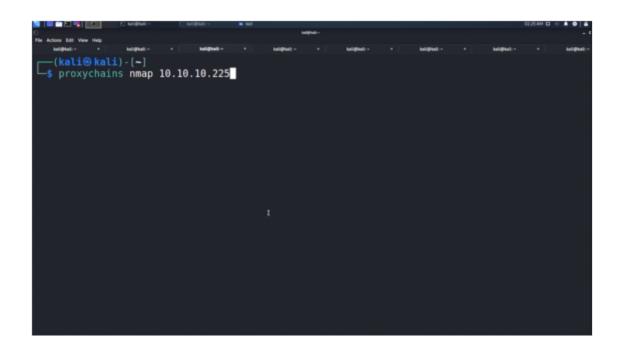


```
The Active Ear Vive Into

Instance Into

Instanc
```

We can use the following to scan for open ports:



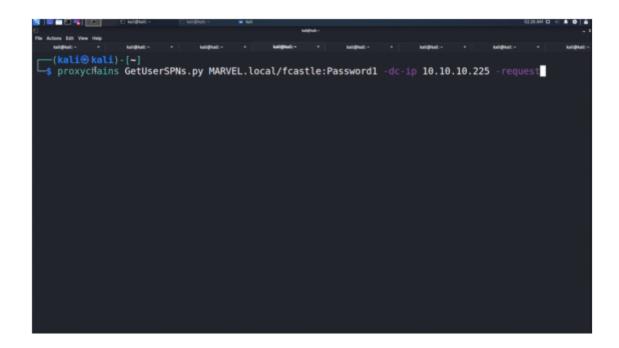
It is weird output, but it works.

We can also try other flags.

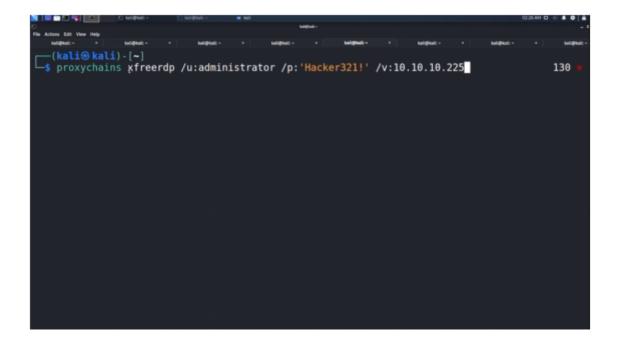


We can also run attacks. We do that through proxychain.

This is the kerberoasting attack through the proxychain.



We can also xfreerdp:

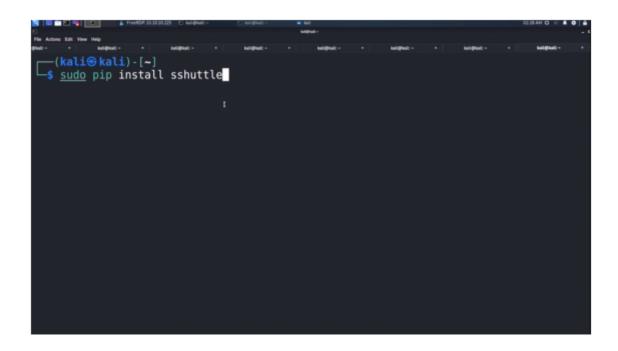


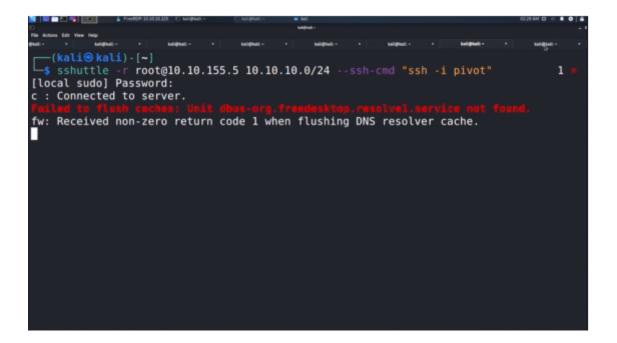
We can also use proxychain with Firefox, where if there are websites/web addresses only accessible to those Ip addresses sitting on the other network, we can then access them through Firefox. We need to have Firefox closed, and then we open it after issuing the command.



That is it for Proxychain

This is another tool we can use to pivot to a network.



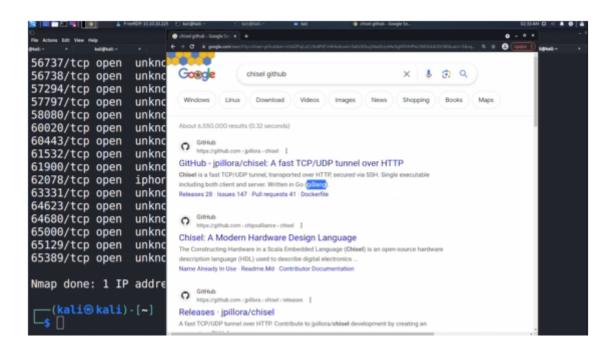


Do not worry with the error message. As long as we are connected, are good.

This is to connect to our machine, so we can have our traffic routed to the new network.

And the cool part of this tool is that as long as this commands runs, and we are connected to the server, we can open a new terminal and run commands like we are in that network. So, we do not need to keep using sshuttle all the time before running tools in that network.

3 - Chisel



Written in Go.

05 - Cleaning Up

This is from a Pentest perspective.



Systems events. Any logs we could find traces.

06 - Section Quiz

Why can using Metasploit for persistence be dangerous?

correct

It provides unauthenticated access that could be used by another attacker

It can be unstable

It can crash the target machine

3/3

What does pivoting allow us to achieve?

Show hidden ports on a target

correct

Access targets that would otherwise be unavailable

Continue >