Telnet Lab Exercise

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1. Determine the server IP address

Typed in ifconfig to view IP address of the server.

```
Innet addr: 172.20.0.3
```

2. Telnet to telnet server and display a file on the server

```
ubuntu@server:-$ cat filetoview.txt
# Filename: filetoview.txt
# Description: This is a pre-created file for each student (telnet-server) container
# This file is modified when container is created
# The string below will be replaced with a keyed hash
My string is: 55a<u>7</u>86db544f66870f9351b227f45824
```

To left is a screenshot of the contents inside filetoview.txt.

3. View plaintext passwords

beginning a telnet session on the client computer, I noticed that anything I entered in the client computer would change the output depicting in the server window, depicting the TCP network traffic. Noticeably, when I entered the server login and password, after letter I typed I notice the letter depicting in

After executing sudo tcpdump -I eth0

-X tcp on the server window and

every other packet with "ack".

4. Use SSH to protect communications with the server

I noticed that there was a difference in the tcpdump output via server window from when I used telnet versus Secure Shell (ssh). When using telnet I can see the data in plain text, but not in ssh. This is likely because ssh encrypts the data, probably making it the safer and more favorable option to use versus telnet.