Lab – Remote Access

1. Objectives

Compare SSH and Telnet for accessing a remote host.

1. Background / Scenario

You will use SSH and Telnet to establish remote connections to a host. SSH is a secure method for remotely accessing an SSH host. Telnet is an insecure method for accessing a Telnet host.

1. Required Resources

* PC with Ubuntu 16.04 Desktop LTS installed in a VirtualBox or VMware virtual machine.
  1. Open a terminal window in Ubuntu
     1. Log in to Ubuntu using the following credentials:

User: **cisco**

Password: **password**



* + 1. Click on the terminal icon to open a terminal window.



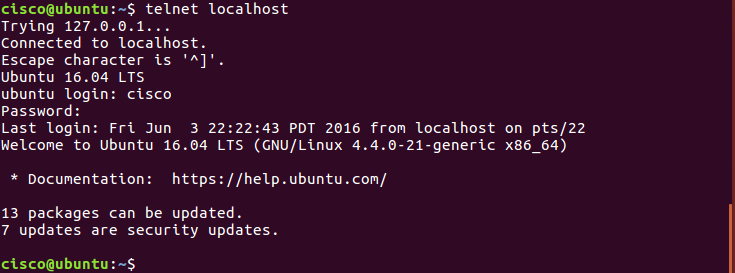
* 1. Telnet to localhost
     1. At the command prompt, enter the following command:

cisco@ubuntu:~$ **telnet localhost**

* + 1. You are prompted for a login account and password for an account that exists on the host:

Ubuntu login: **cisco**

Password: **password**



You have successfully logged into your own machine using Telnet.

* + 1. At the command prompt, enter the following command to exit this Telnet session:

cisco@ubuntu:~$ **exit**



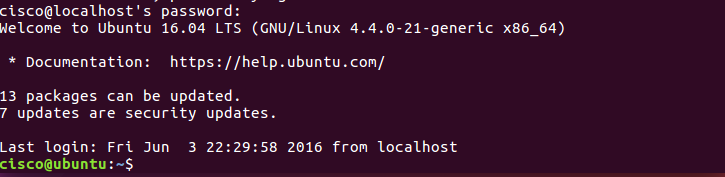
* 1. SSH to localhost
     1. Type the following command in terminal to access the localhost using SSH:

cisco@ubuntu:~$ **ssh localhost**



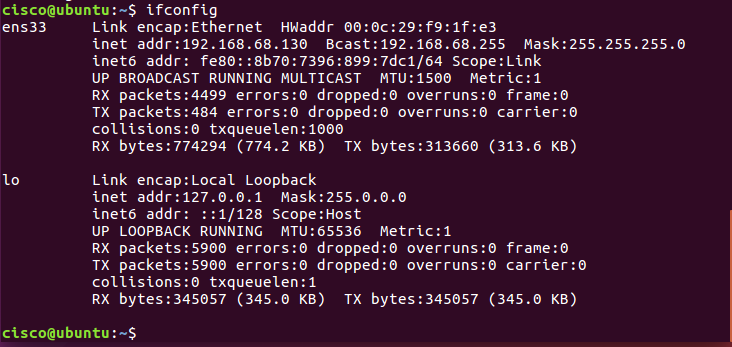
**Note**: If this is the first time connecting with SSH, the security keys will need to be saved to the system. If you are prompted as to whether to proceed, type **yes** to proceed with the connection.

* + 1. Use the password **password** for the user **cisco**.



* + 1. You have successfully logged in to your machine using SSH.
  1. Accessing a Remote Host
     1. Pick a partner and change the network adapters on both of your virtual machines to bridged. To do this you will need to release your cursor from the virtual machine, go to **Machine** > **Settings** and click **Network** and change **Attached to: NAT** to **Attached to: Bridged Adapter**. Wait for the network to reconnect. Now check your IP address by typing in the following command:

cisco@ubuntu:~$ **ifconfig**



**Note**: If you did not receive a new IP address, click the network icon (). Disconnect and reconnect the wired connection.

* + 1. Repeat the SSH and Telnet commands but this time instead of localhost use your partner’s IP address.