Lab – Remote Access

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Objectives

Compare SSH and Telnet for accessing a remote host.

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.

Required Resources

- PC with Ubuntu 16.04 Desktop LTS installed in a VirtualBox or VMware virtual machine.

Step 1: Open a terminal window in Ubuntu

a. Log in to Ubuntu using the following credentials:

User: **bee**

Password: **bug**

b. Click on the terminal icon to open a terminal window.

Step 2: Telnet to localhost

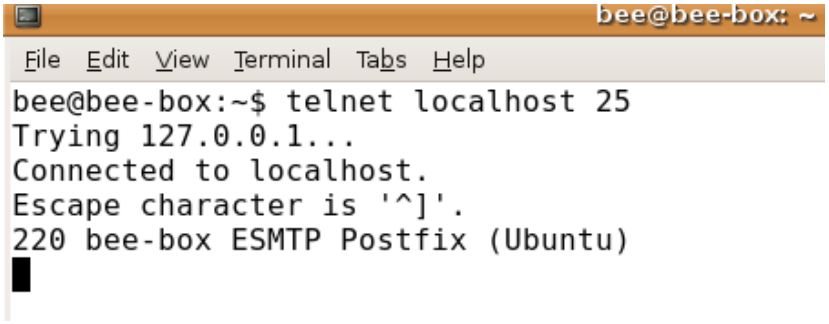
a. At the command prompt, enter the following command:

```
bee@bee-box:~$ telnet localhost
```

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

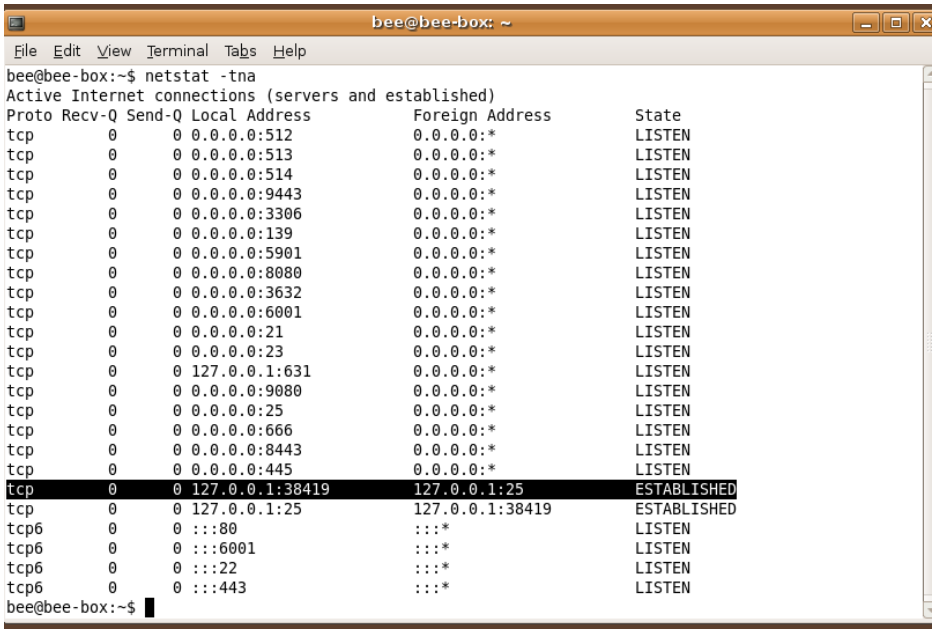
Ubuntu login: **bee**

Password: **bug**



You have successfully logged into your own machine using Telnet.

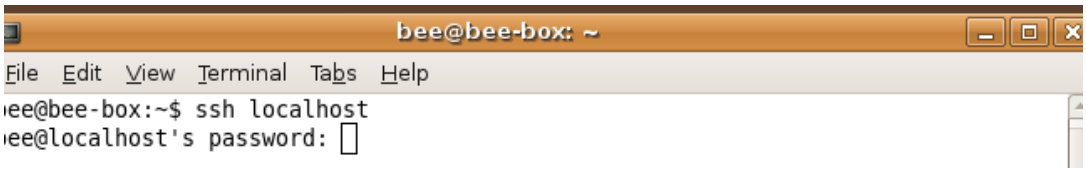
c. Now lets confirm this by netstat:



Step 3: SSH to localhost

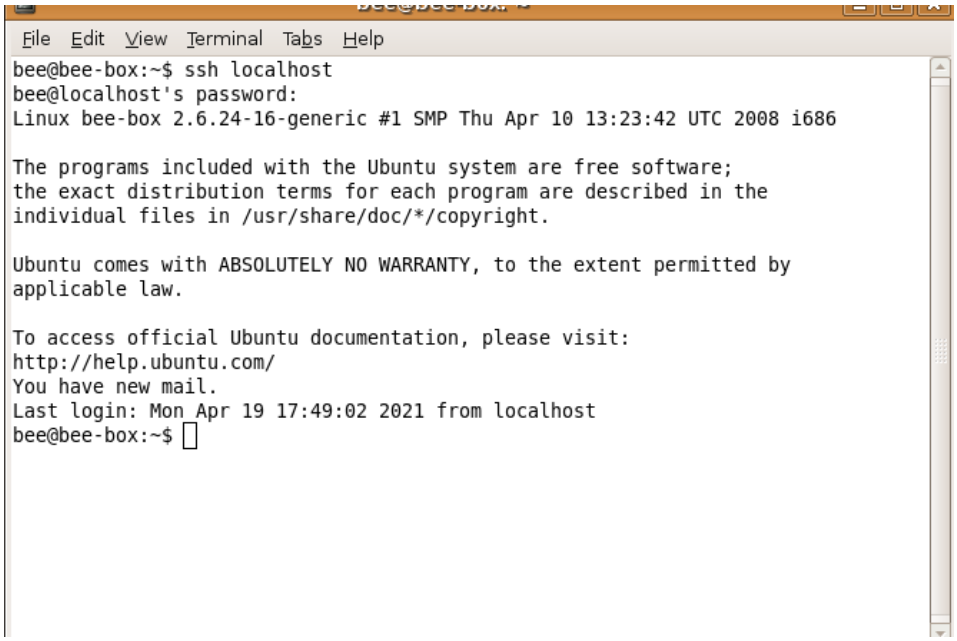
a. Type the following command in terminal to access the localhost using SSH:

```
bee@bee-box:~$ 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.

b. Use the password **bug** for the user **bee**.

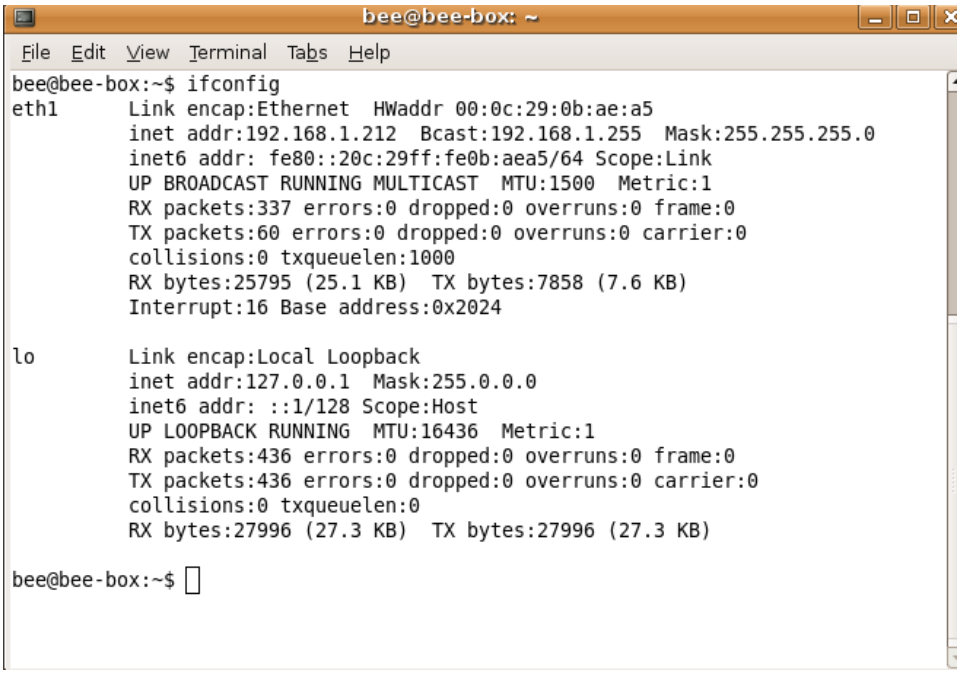


c. You have successfully logged in to your machine using SSH.

Step 4: Accessing a Remote Host

a. 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:

```
bee@bee-box:~$ ifconfig
```



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

b. Repeat the SSH and Telnet commands but this time instead of localhost use your partner's IP address.