I first insert an empty port in the empty space provided.

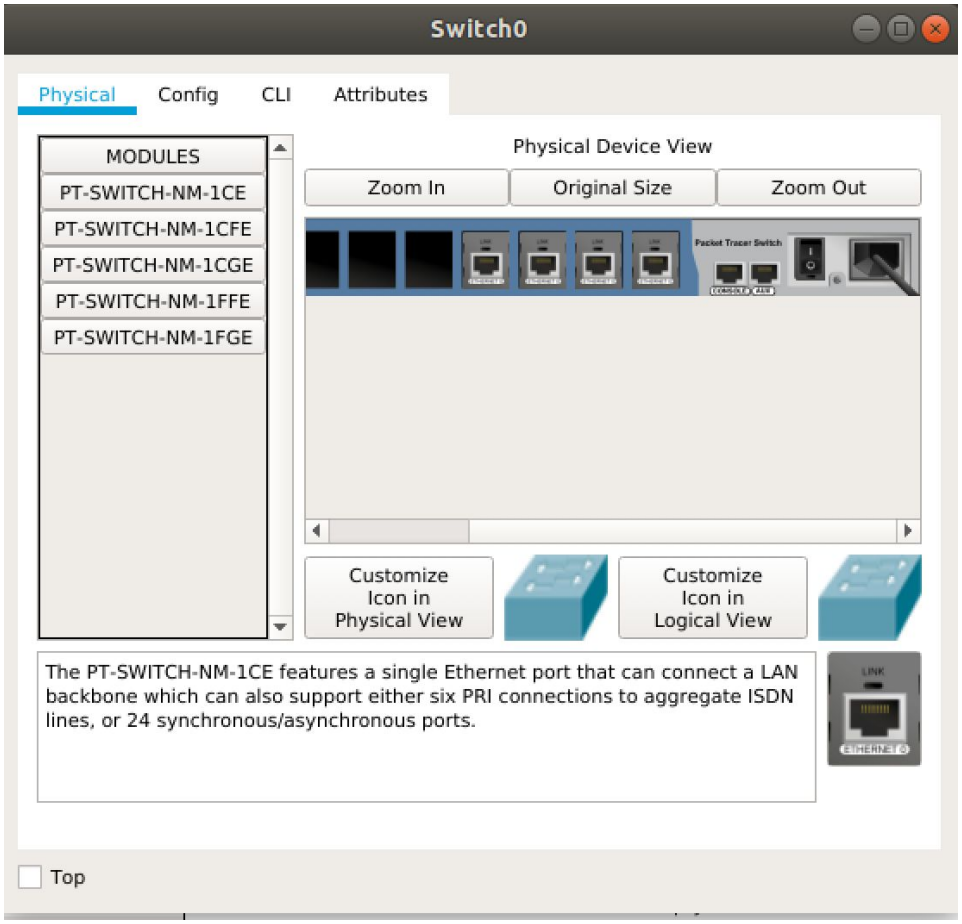

Figure 1. Physical properties of the switch.

(Fig. 1) illustrates the next step in which I turned off the power in order to insert four -1CE Ethernet ports. I then turn the switch on.

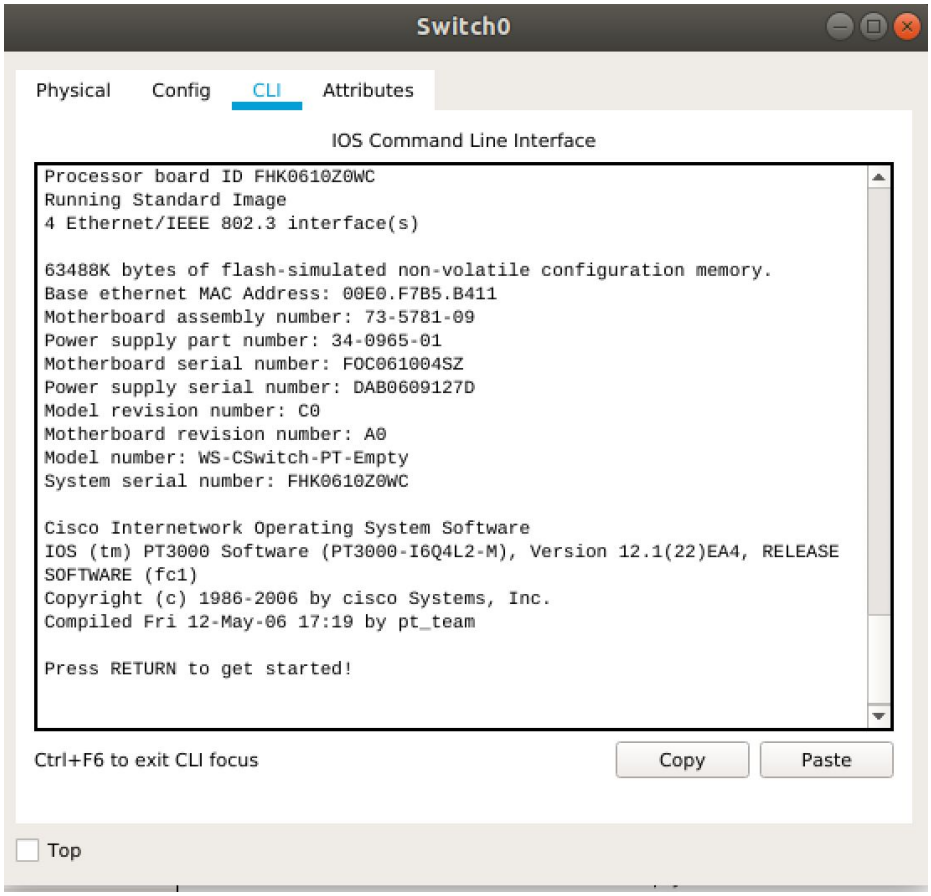

Figure 2. CLI tab.

After that, I checked to ensure that the switch is able to finish commands, as demonstrated in **(Fig.2).**

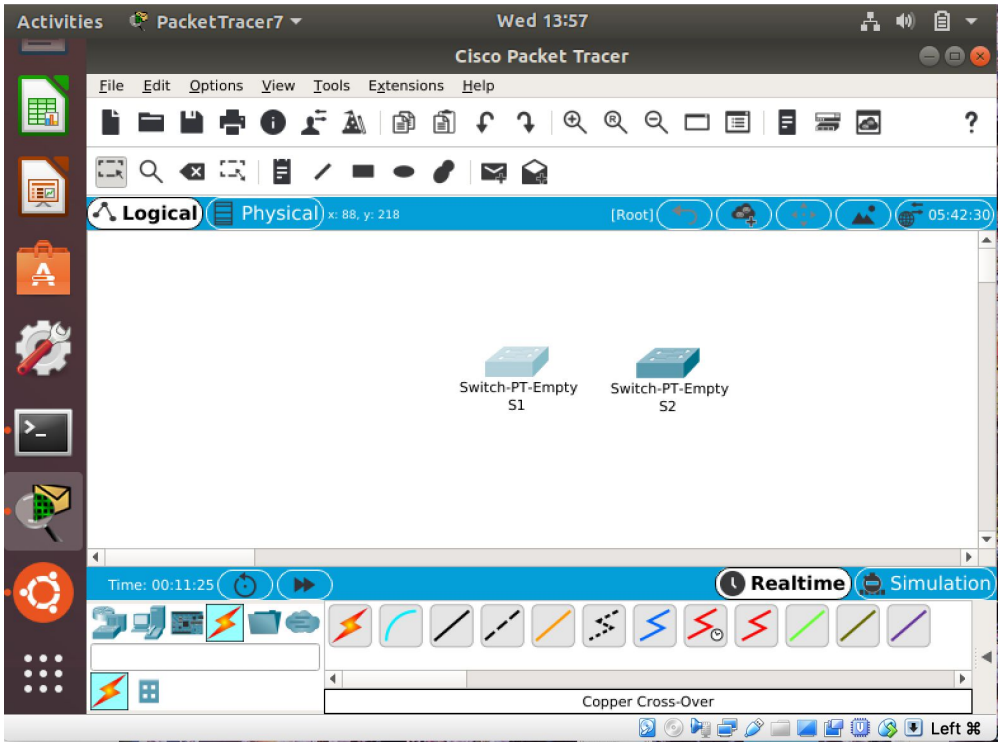

Figure 3. Two switches.

Next, I insert a second switch that follows the same requirements from **(Fig. 1)** and **(Fig. 2)**. After that, I create a copper crossover wire to connect the two empty switches.

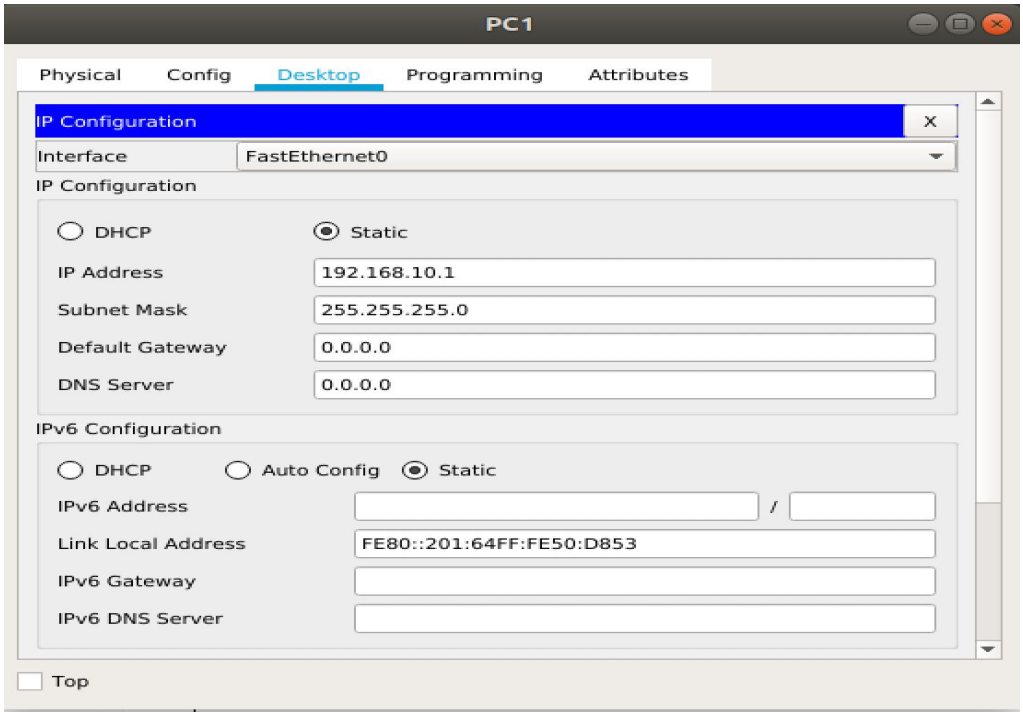

Figure 4. The Desktop tab of the PC.

Next, I click and drag 6 PCs. Three PCs are near S1 while three other PCs are near S2. For each PC, I click on the desktop tab to set up the IP Address and the Subnet Mask. Each PC has the subnet mask but I increment each PC's IP Address by 1. The layout of the PCs is illustrated in **(Fig. 5)**.

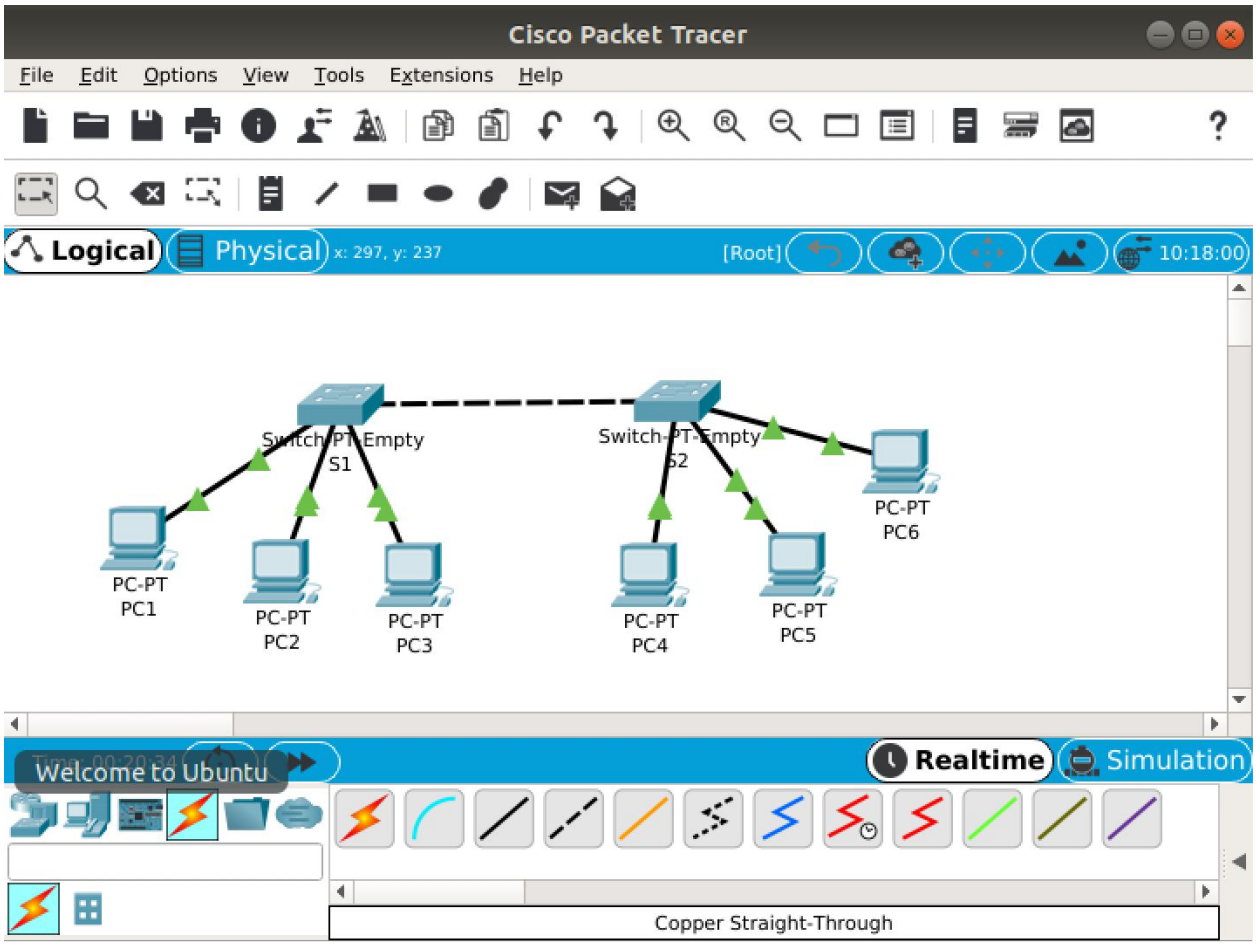

Figure 5. PC and switches connections.

(Fig 5.) depicts the connections between the PCs and the switches. PCs 1-3 are connected to S1 while PCs 4-6 are connected to S2 by using a Copper Straight-Through connector. Finally, I test the connection by using the command prompt in PC 2.

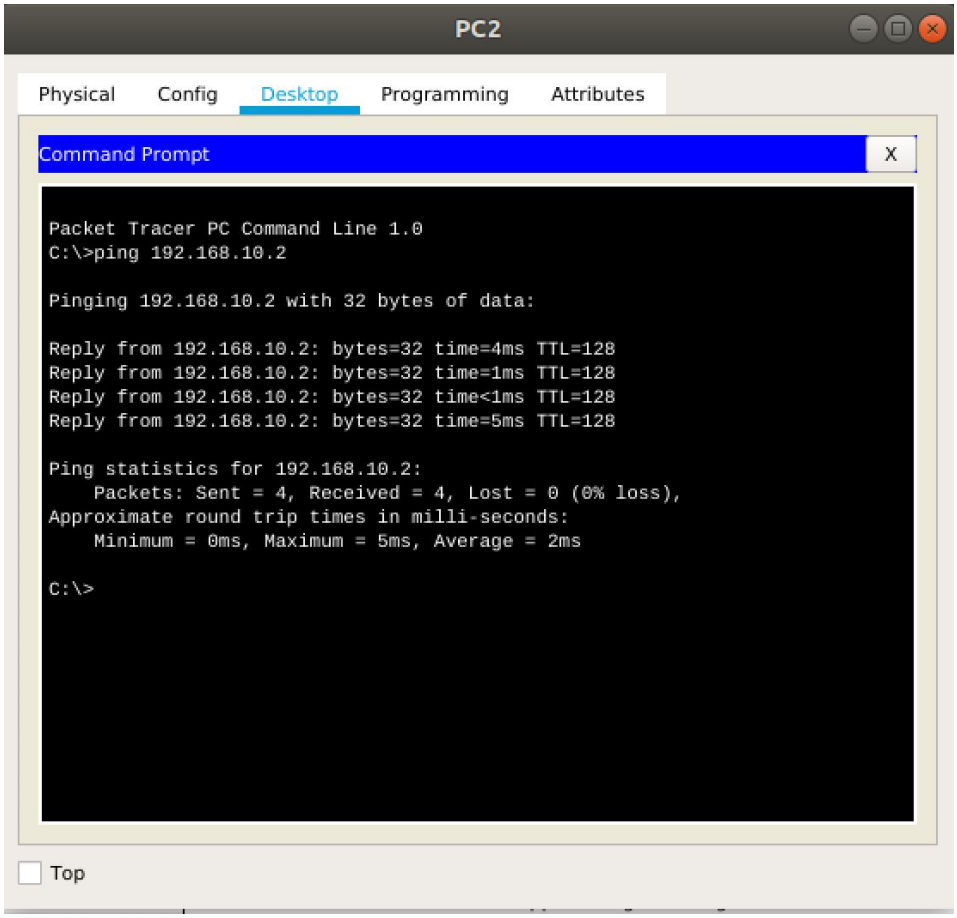

Figure 6. Command Prompt.

By using the desktop tab in PC 2, I enter “ping ” followed by the PC’s IP address. The test is successful for I receive 4 replies. I repeat this ping method to other combinations to see if a successful output was possible. There was originally an issue with S1 to S2 **(Fig. 5)**, so I redid the wire to obtain a successful reply.