CAP 276: DATA COMMUNICATION AND NETWORKING LABORATORY

PRACTICAL-C.A-1

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SECTION: - **D2215**
GROUP: - **2**

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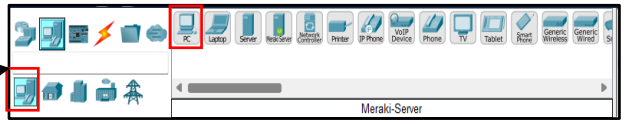
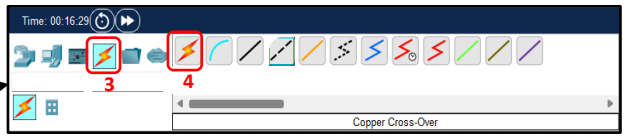
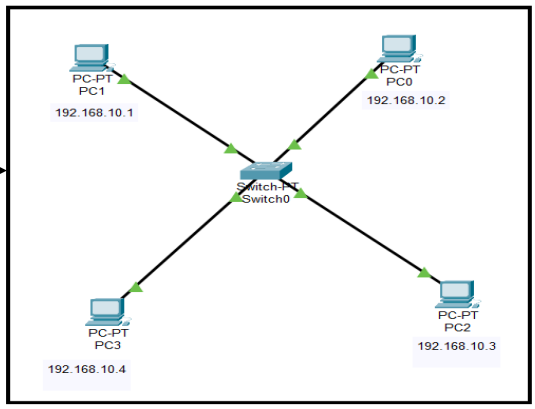
1. Demonstrate the implementation of star topology using simulation mode.

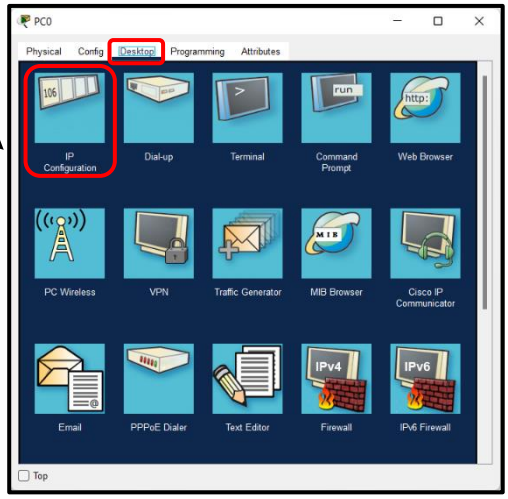
Process:



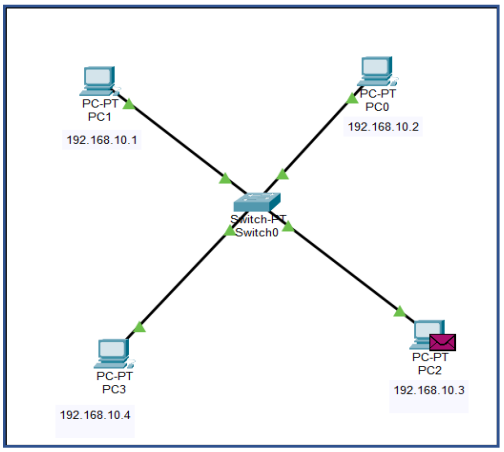


- Open cisco Packet Tracer.
- Select Computer icon.
- Select any PC as you need.
- Draw the PC in working area.
- Click on connection wire.
- Select Automatically choose Connection Type wire.
- Click on wire. (Ctrl + Left click).
- Click on PC1.
- Click on Switch.
- Again click on PC2.
- Click on Switch.
- Click on PC3.
- Click on Switch.
- Click on PC4.
- Click on Switch.
- Click on 1st PC then a dialog box open.
- Click on Desktop tab.
- Click on IP Configuration.
- Select Static radio button.
- Enter IP address.
- Press Enter key and close window.
- Again, click on 2nd PC then a dialog box open.
- Click on Desktop tab.
- Click on IP Configuration.
- Select Static radio button.
- Enter another IP address.
- Press Enter key and close window.
- Same Process four times.
- Rename both PC name with IP address.

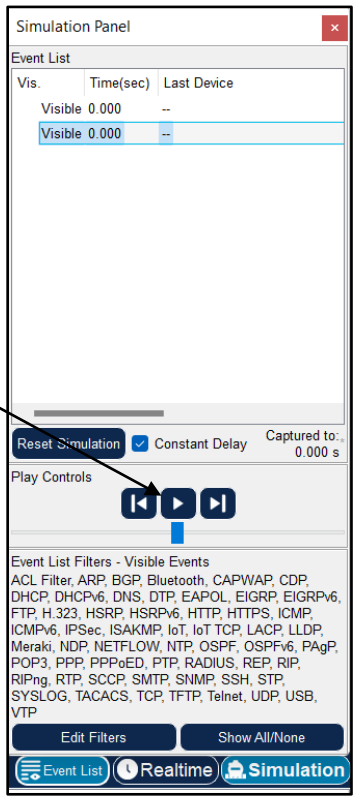




- Select PDU file and click on PC1 and PC2.
- Click on simulation button.
- Click on Play button.



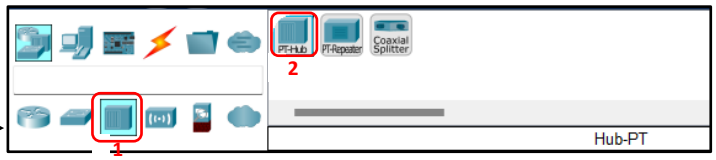
After send PDU.

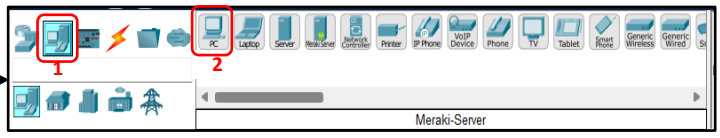


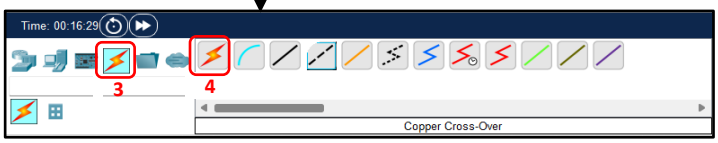
2. **Show the working of hub using cisco packet tracer through ping command, real time mode, and simulation mode.**

PROCESS: -

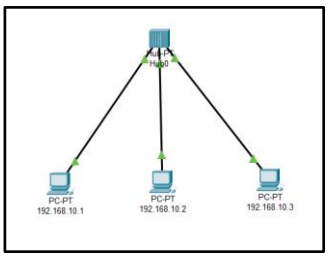
- Open Cisco Packet Tracer.
- Click on Hubs option.
- Select Hub- PT.
- Draw the working blank area.
- Again, click on PC icons.
- Select PC as you need.
- Draw the PC in working area.
- Click on connection wire.
- Select Automatically Choose Connection Type wire.
- Select wire. (Ctrl + left click).
- Click on Hub.
- And click on 1nd pc .
- Again, click on Hub.
- And click on 2nd PC.
- Again, click on Hub.
- And click on 3rd PC.
- Generate IP address in PC. (See process for generate IP address above).
- Select PDU message box.
- Click on any one PC.
- Again, click on another PC. (For connect two or more PC in Single HUB).
- click on Simulation icon.



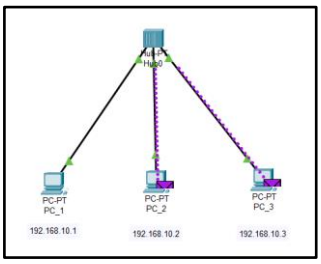




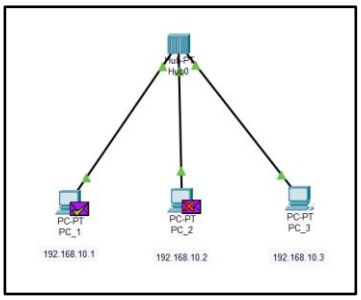
☞ Then a dialog box open.
☞ Click on Play button.



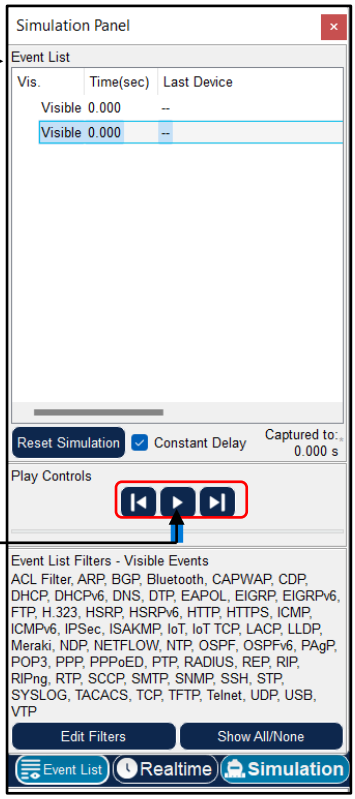
Before send PDU.



After send PDU PC_1 to PC_3



Finally Result sent PC_1 to PC_3

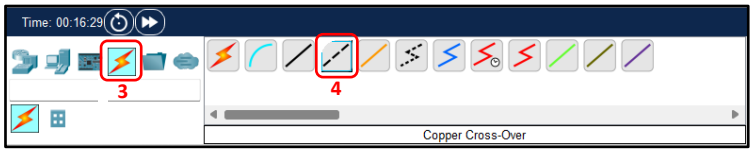


3. Show how we can make a peer-to-peer network using cisco packet tracer. And check it's connecting using ping command, real time mode and simulation mode.

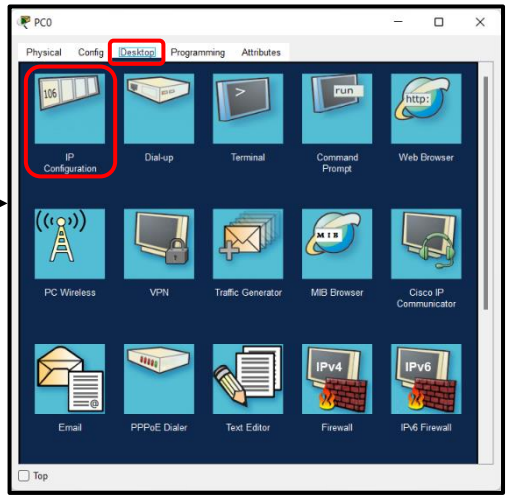
PROCESS: -

☞ Open Cisco Packet Tracer.
☞ Select computer icon.

☞ Again, select any pc as you need.
☞ Click on working area.
☞ Click on connection wire.
☞ Select Copper Cross-Over wire.



☞ Click on 1st PC then opened properties box.
☞ Click on fast Ethernet0.
☞ Draw the mouse pointer and click on 2nd pc .
☞ Again, opened properties box
☞ Then click on fast ethernet0.
☞ Click on 1st PC then a dialog box open.



☞ Click on Desktop tab.
☞ Click on IP Configuration.
☞ Select Static radio button.
☞ Enter IP address.
☞ Press Enter key and close window.
☞ Again, click on 2nd PC then a dialog box open.

- Click on Desktop tab.
- Click on IP Configuration.
- Select Static radio button.
- Enter another IP address.
- Press Enter key and close window.
- Rename both PC name with IP address.
- Click on 1st PC then a dialog box open.
- Click on Desktop tab.
- Click on Command Prompt.
- Type “ping space 2nd PC IP address.
- Press Enter key.
- Successful connect and sent.