

CONTINUOUS ASSESSMENTS (C.A)-2

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SECTION: - D2215
GROUP: - 2

Q.1. Demonstrate the implementation of routing using simulation mode with network ID- 192.162.40.20 and 192.162.50.30.

Process: -

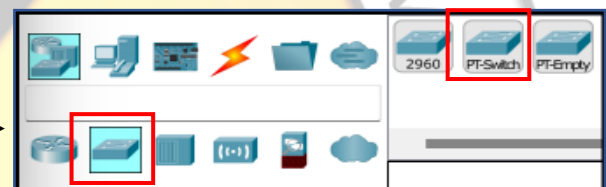
☞ Open Cisco packet tracer.

☞ Select PC



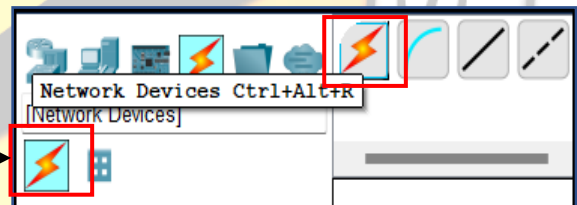
☞ Draw three PC the blank area.

☞ Select Switch "PT-switch".



☞ Draw one switch.

☞ Select Wired.



☞ Connect PC to Switch with wired.

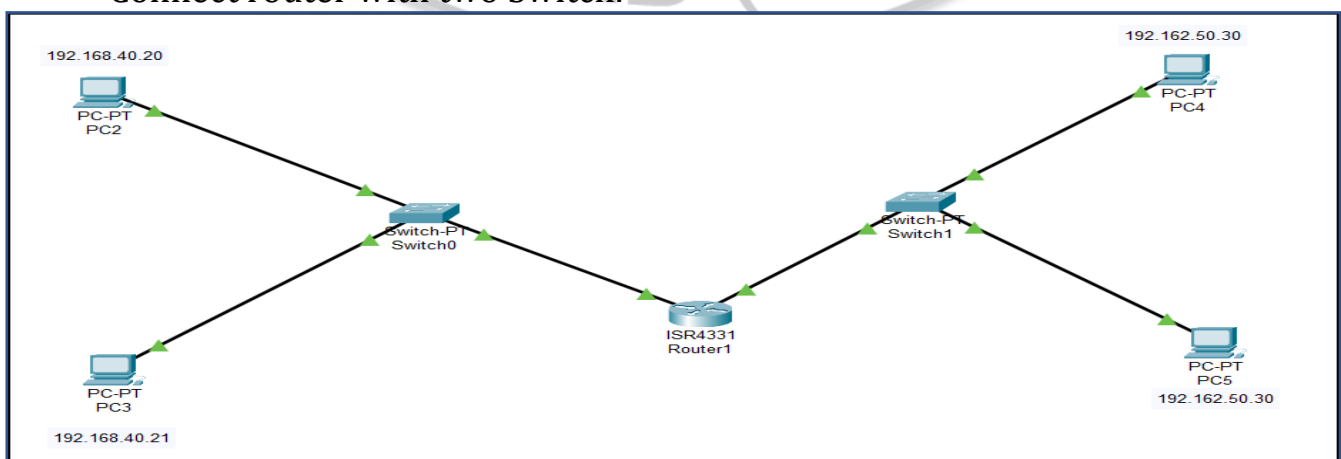
☞ Again, repeat same process on right side.

☞ Select router.



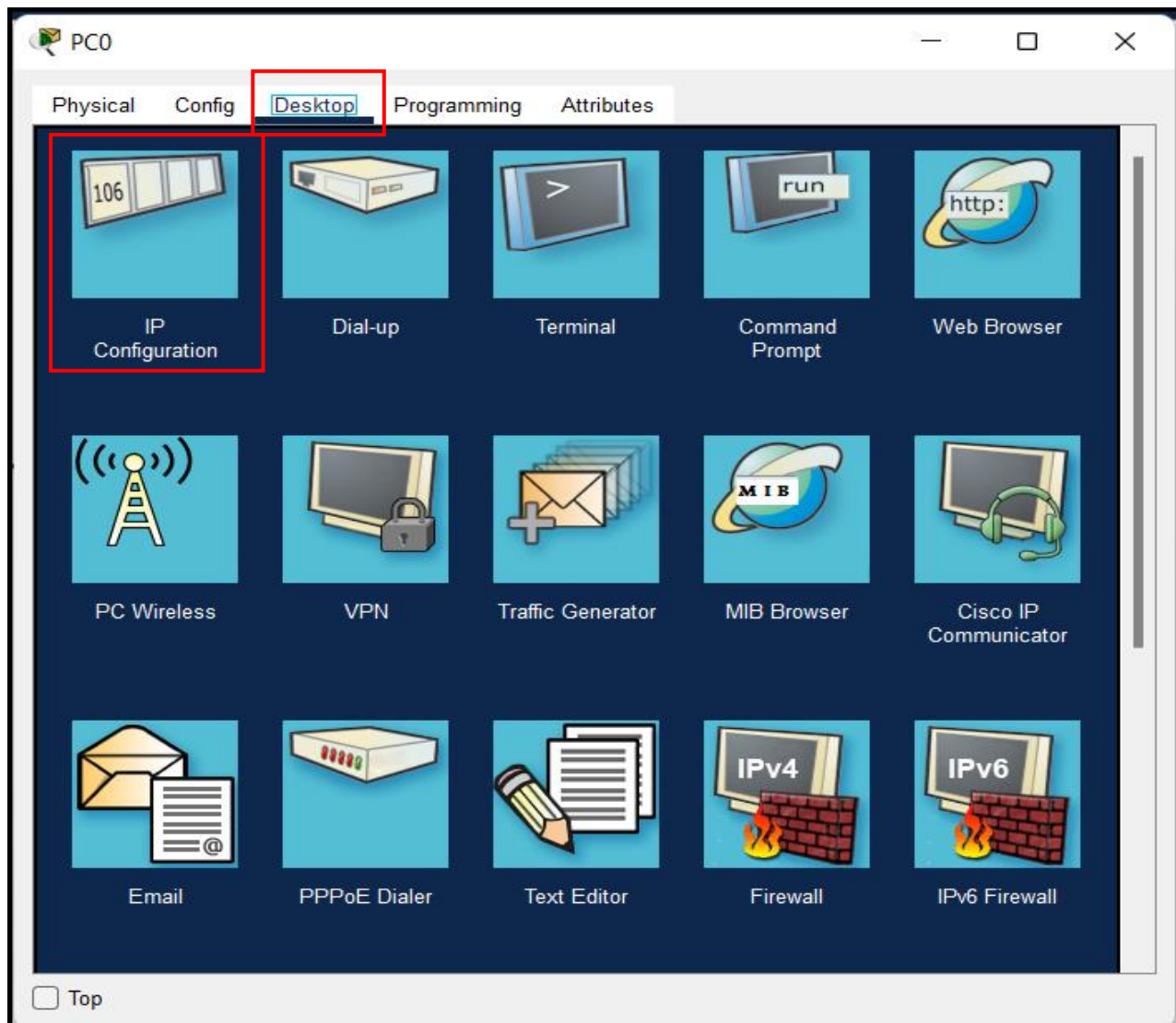
☞ Draw router blank area.

☞ Connect router with two Switch.



☞ Click on PC.

☞ Then a dialog box will be open.



☞

☞ Click on Desktop Tab.

☞ Click on IP Configuration.

☞ Check Static radio button.

☞ Click on IPv4 and enter IP address

☞ Press Enter key.

☞ Automatically enter Subnet Mask.

☞ All PC inter IP address & MAC address assign.

PC0

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 10.10.10.2

Subnet Mask 255.0.0.0

Default Gateway 10.10.10.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80::201:C9FF:FE8B:A080

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

☐ Top

Click on router.

Then a dialog box open.

Router0

Physical **Config** CLI Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

GigabitEthernet0/0/0

GigabitEthernet0/0/1

GigabitEthernet0/0/2

Global Settings

Display Name Router0

Hostname Router

NVRAM Erase Save

Startup Config Load... Export...

Running Config Export... Merge...

Equivalent IOS Commands

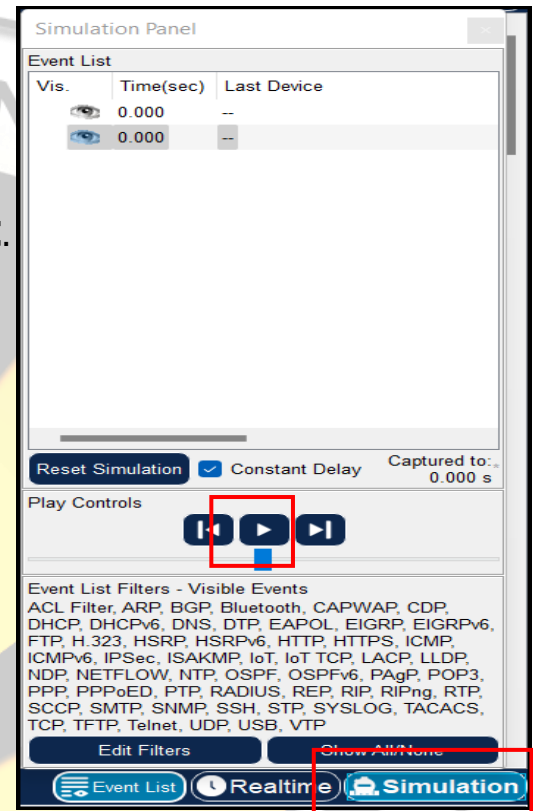
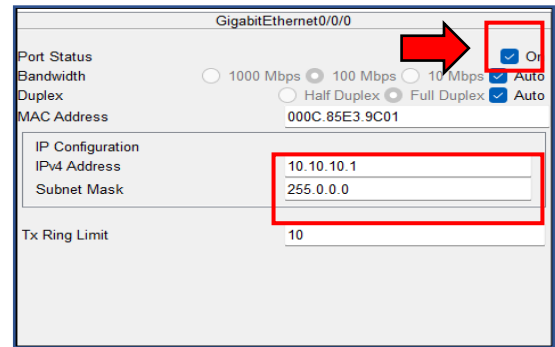
Press RETURN to get started!

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/1, changed state to up
```

☐ Top

Click on Config.

- ➡ Again, click on GigabitEthernet0/0/0
- ➡ Click on IPv4 and type IP address.
- ➡ Again, click on GigabitEthernet0/0/1
- ➡ Click "on" checkbox.
- ➡ Select PDU.
- ➡ Click on any one PC and click on another PC.
- ➡ Click on simulation.
- ➡ Click on Play button.

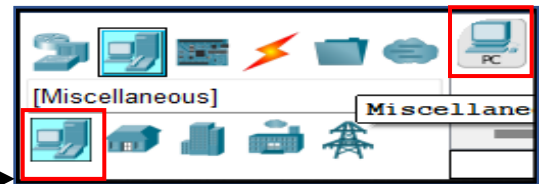


Q.2 Design a network consisting of ring, mesh and tree topology using switch with network ID- 195.20.40.10.

Process: -

➤ Open Cisco packet tracer.

➤ Select PC



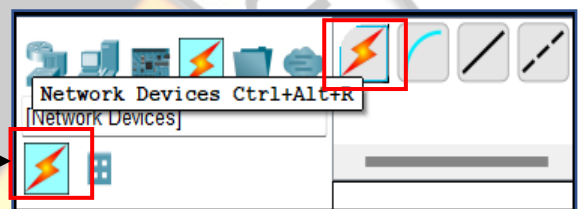
➤ Draw four PC the blank area. (Ring shape)

➤ Select Switch "PT-switch".



➤ Draw four Switch. (Ring Shape)

➤ Select Wired.



➤ Connect PC to Switch with wired.

➤ Connect Switch to Switch.

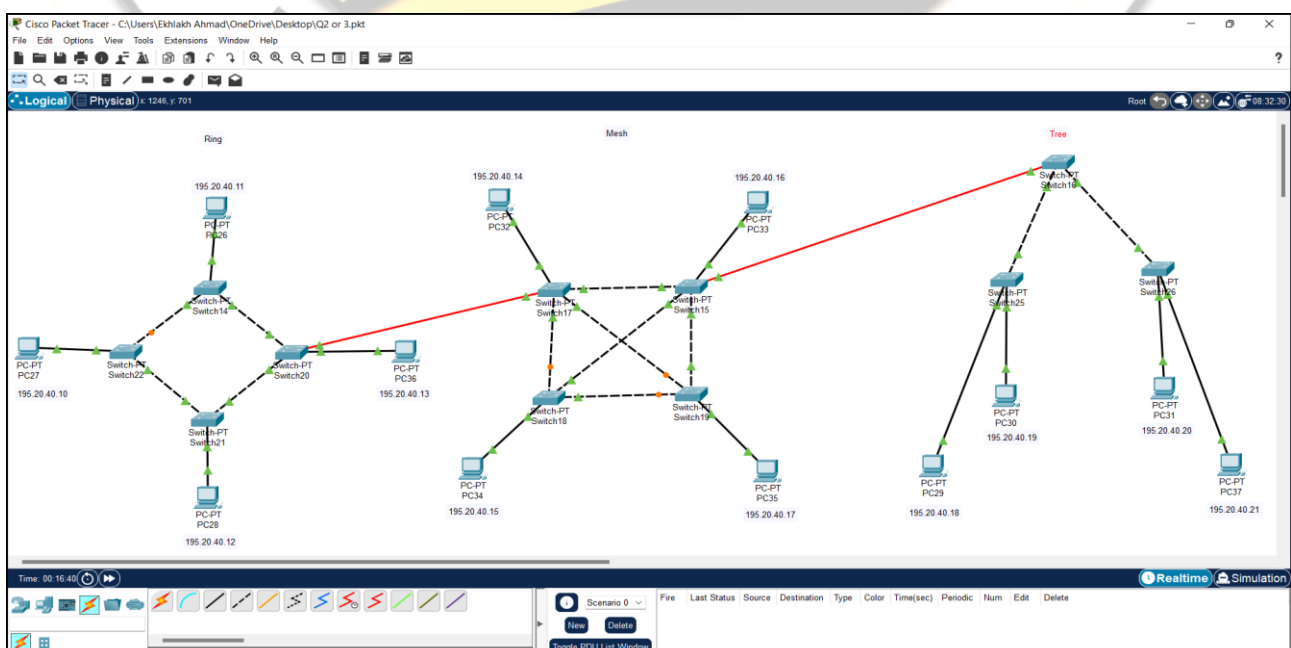
➤ Again, draw four PC and four Switch on the right side of the Ring.

➤ Again, draw four PC and two Switch on the right side of the Mesh.

➤ Connect Switch to Switch each other.

➤ Assign IP Address with 195.20.40.10.

➤ Send PD and Simulation.

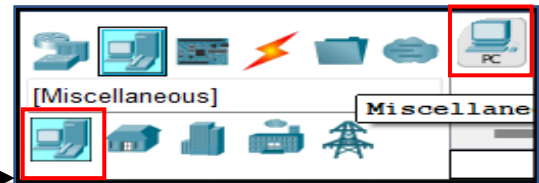


Q.3. Consider and design lab1 (192.162.60.10) and lab2 (192.168.80.20) with star and bus topology respectively. Demonstrate how these labs will be able to share data with each other in simulation mode.

Process: -

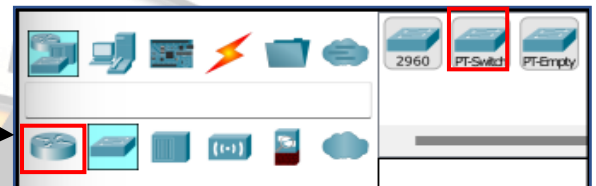
☞ Open Cisco packet tracer.

☞ Select PC



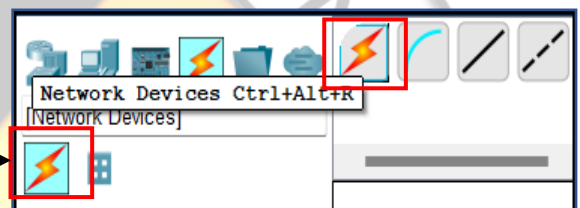
☞ Draw four PC the blank area. (Star shape)

☞ Select Switch "PT-switch".



☞ Draw one Switch.

☞ Select Wired.



☞ Connect PC to Switch with wired.

☞ Draw four PC on right side of Star. (shape bus).

