

CN ASSIGNMENT-2

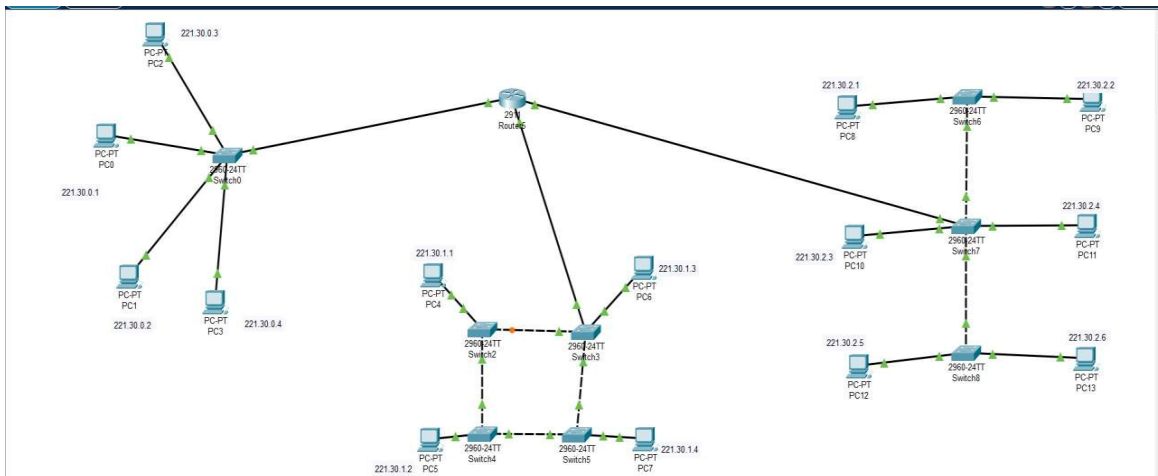
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ROLL NO: AM.EN.U4ECE22130

1. Create 3 LAN networks connected via a single Router (CPT). Choose appropriate router, connection and configure it. Each LAN network is configured via Tree, Star and Ring topologies respectively.

→ The 3 LAN networks used here are star topology, ring topology and tree topology and one router.

- Left side – star topology (221.30.0.1 to 221.30.0.4)
- Middle – ring topology (221.30.1.1 to 221.30.1.4)
- Right side – tree topology (221.30.2.1 to 221.30.2.6)



Physical Config CLI Attributes

GLOBAL

- Settings
- Algorithm Settings
- ROUTING**
- Static
- RIP
- SWITCHING**
- VLAN Database
- INTERFACE**
- GigabitEthernet0/0
- GigabitEthernet0/1
- GigabitEthernet0/2

GigabitEthernet0/0

Port Status ☒ On

Bandwidth ☒ 1000 Mbps ☐ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0050.0F7B.8801

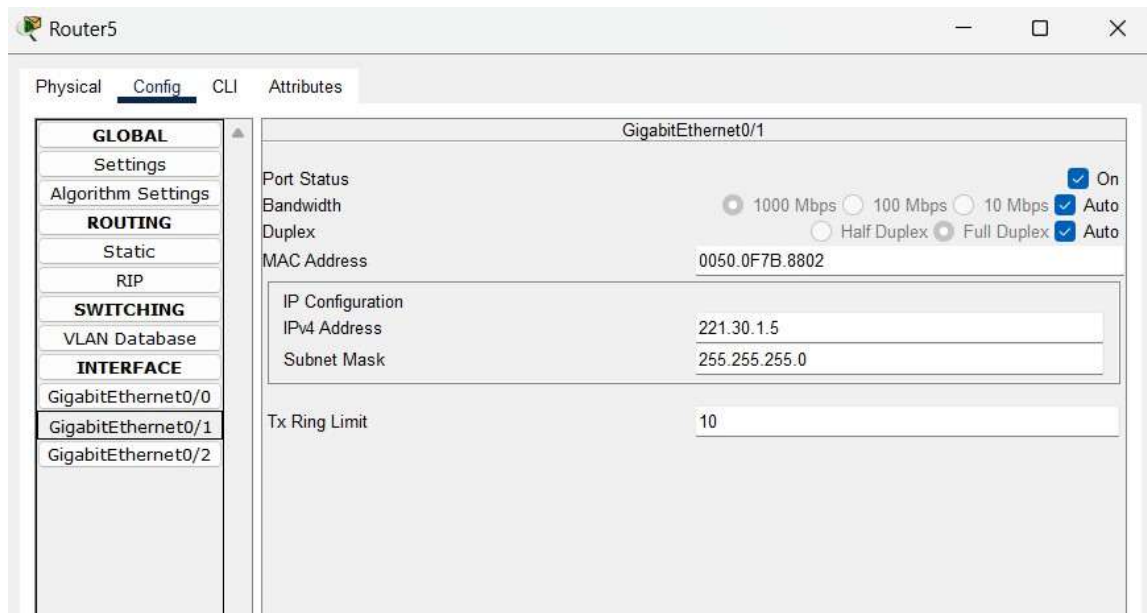
IP Configuration

IPv4 Address 221.30.0.5

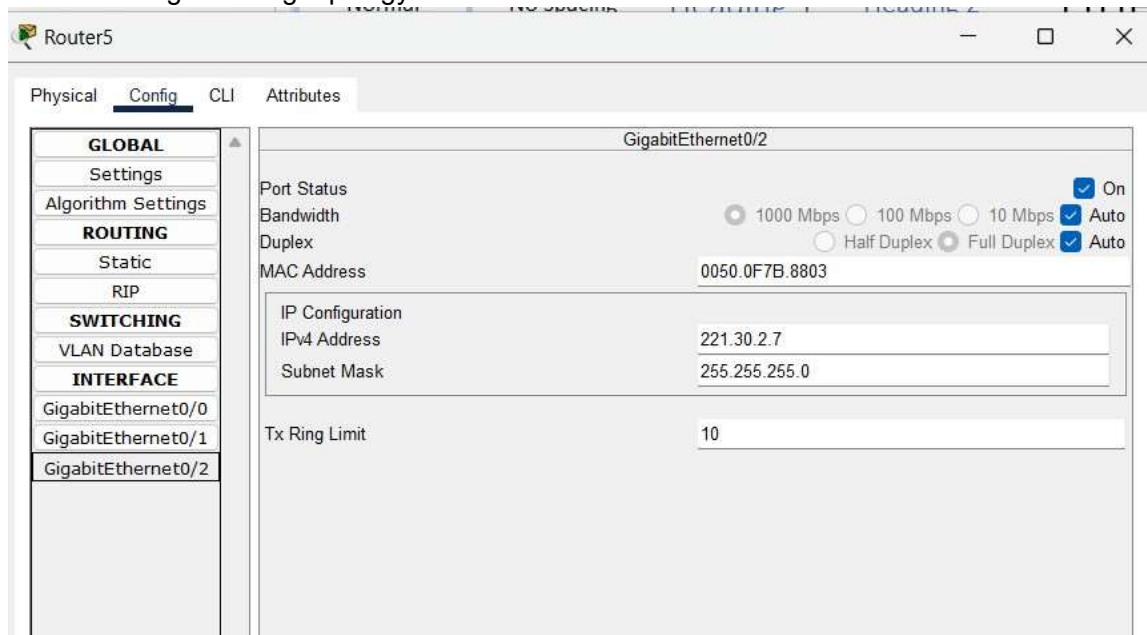
Subnet Mask 255.255.255.0

Tx Ring Limit 10

→ Router config from star topology to router



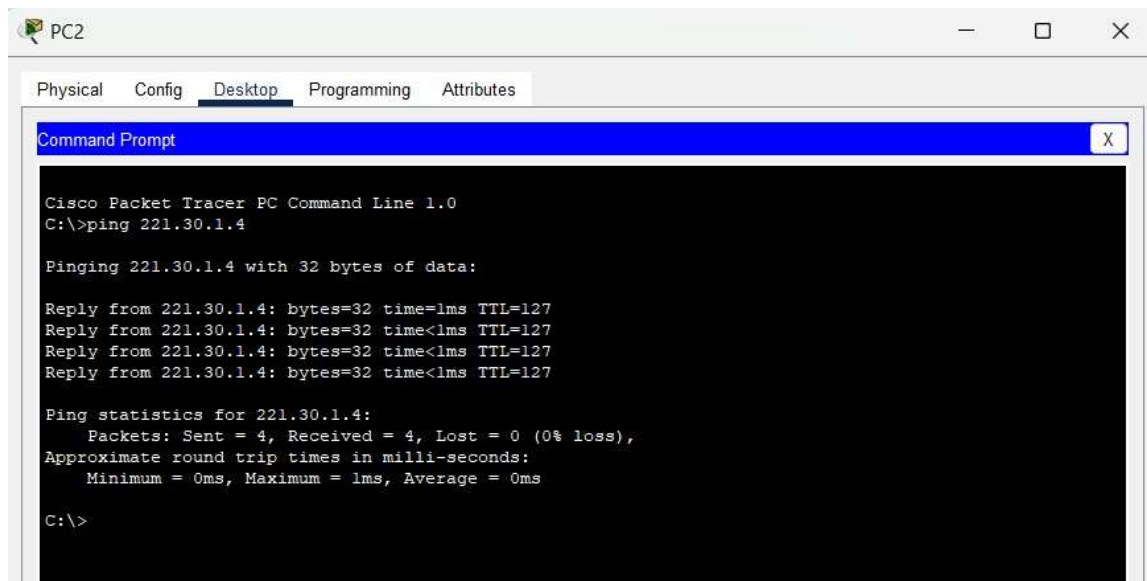
→Router config from ring topology to router



→Router config from tree topology to router

Realtime										
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC2	PC7	ICMP		0.000	N	0	(edit)	(delete)
	Successful	PC2	PC10	ICMP		0.000	N	1	(edit)	(delete)
	Successful	PC6	PC10	ICMP		0.000	N	2	(edit)	(delete)
	Successful	PC5	PC3	ICMP		0.000	N	3	(edit)	(delete)

→Pinging from 221.30.0.3 to 221.30.1.4



The screenshot shows a window titled "PC2" with tabs for Physical, Config, Desktop, Programming, and Attributes. The Desktop tab is active, displaying a "Command Prompt" window. The command prompt shows the execution of a ping command from PC2 to 221.30.1.4. The output indicates that the ping was successful with 0% loss and a round trip time of 0ms.

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 221.30.1.4

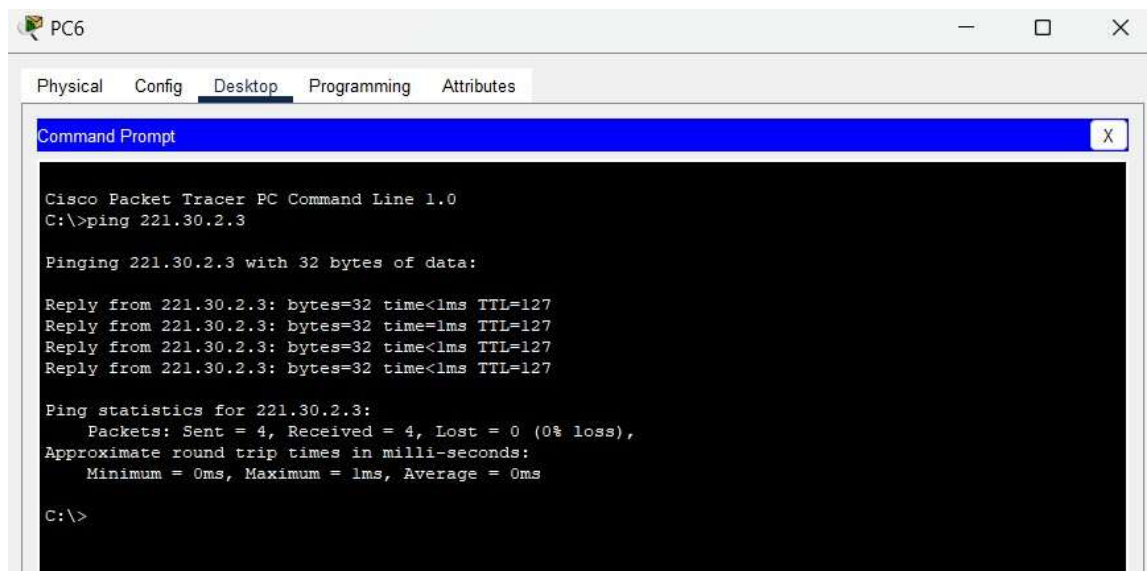
Pinging 221.30.1.4 with 32 bytes of data:

Reply from 221.30.1.4: bytes=32 time=1ms TTL=127
Reply from 221.30.1.4: bytes=32 time<1ms TTL=127
Reply from 221.30.1.4: bytes=32 time<1ms TTL=127
Reply from 221.30.1.4: bytes=32 time<1ms TTL=127

Ping statistics for 221.30.1.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

→Pinging from 221.30.1.6 to 221.30.2.3



The screenshot shows a window titled "PC6" with tabs for Physical, Config, Desktop, Programming, and Attributes. The Desktop tab is active, displaying a "Command Prompt" window. The command prompt shows the execution of a ping command from PC6 to 221.30.2.3. The output indicates that the ping was successful with 0% loss and a round trip time of 0ms.

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 221.30.2.3

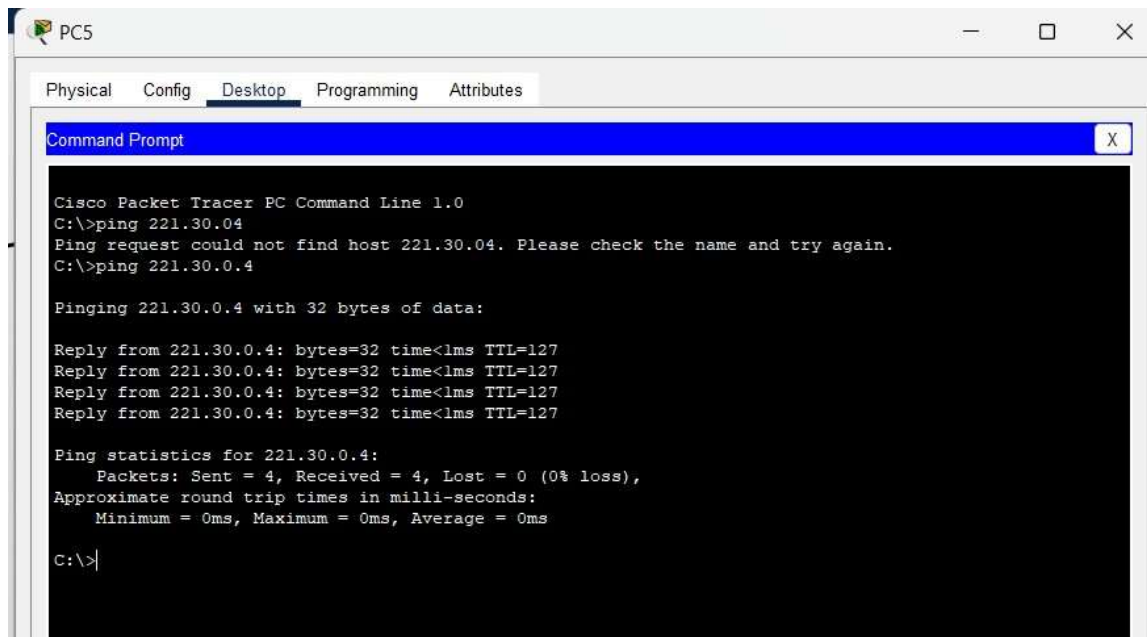
Pinging 221.30.2.3 with 32 bytes of data:

Reply from 221.30.2.3: bytes=32 time<1ms TTL=127
Reply from 221.30.2.3: bytes=32 time=1ms TTL=127
Reply from 221.30.2.3: bytes=32 time<1ms TTL=127
Reply from 221.30.2.3: bytes=32 time<1ms TTL=127

Ping statistics for 221.30.2.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

→Pinging from 221.30.1.2 to 221.30.0.4



The image shows a screenshot of a Cisco Packet Tracer PC Command Prompt window. The window title is "PC5" and it has tabs for "Physical", "Config", "Desktop", "Programming", and "Attributes". The "Desktop" tab is active, showing a "Command Prompt" window. The command prompt displays the following text:

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 221.30.04
Ping request could not find host 221.30.04. Please check the name and try again.
C:\>ping 221.30.0.4

Pinging 221.30.0.4 with 32 bytes of data:

Reply from 221.30.0.4: bytes=32 time<1ms TTL=127
Reply from 221.30.0.4: bytes=32 time<1ms TTL=127
Reply from 221.30.0.4: bytes=32 time<1ms TTL=127
Reply from 221.30.0.4: bytes=32 time<1ms TTL=127

Ping statistics for 221.30.0.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>|
```