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Subject Code – PMC202

Problem Statement 1 – There is an organization A with multiple departments. Design a network for the HR dept. & the size of the department is 10 users. Also show the comm. b/w user 1 and user 5 of the network.

Objective – To design a network for the HR department

Description – We have to design a network for HR dept. with 10 users.

Solution.

Step 1: Open Cisco Packet Tracer

Step 2: Select networking device icon, then drag & drop the switch and set its IP address.

Step 3: Select end device icon, then drag & drop 10 PCs.

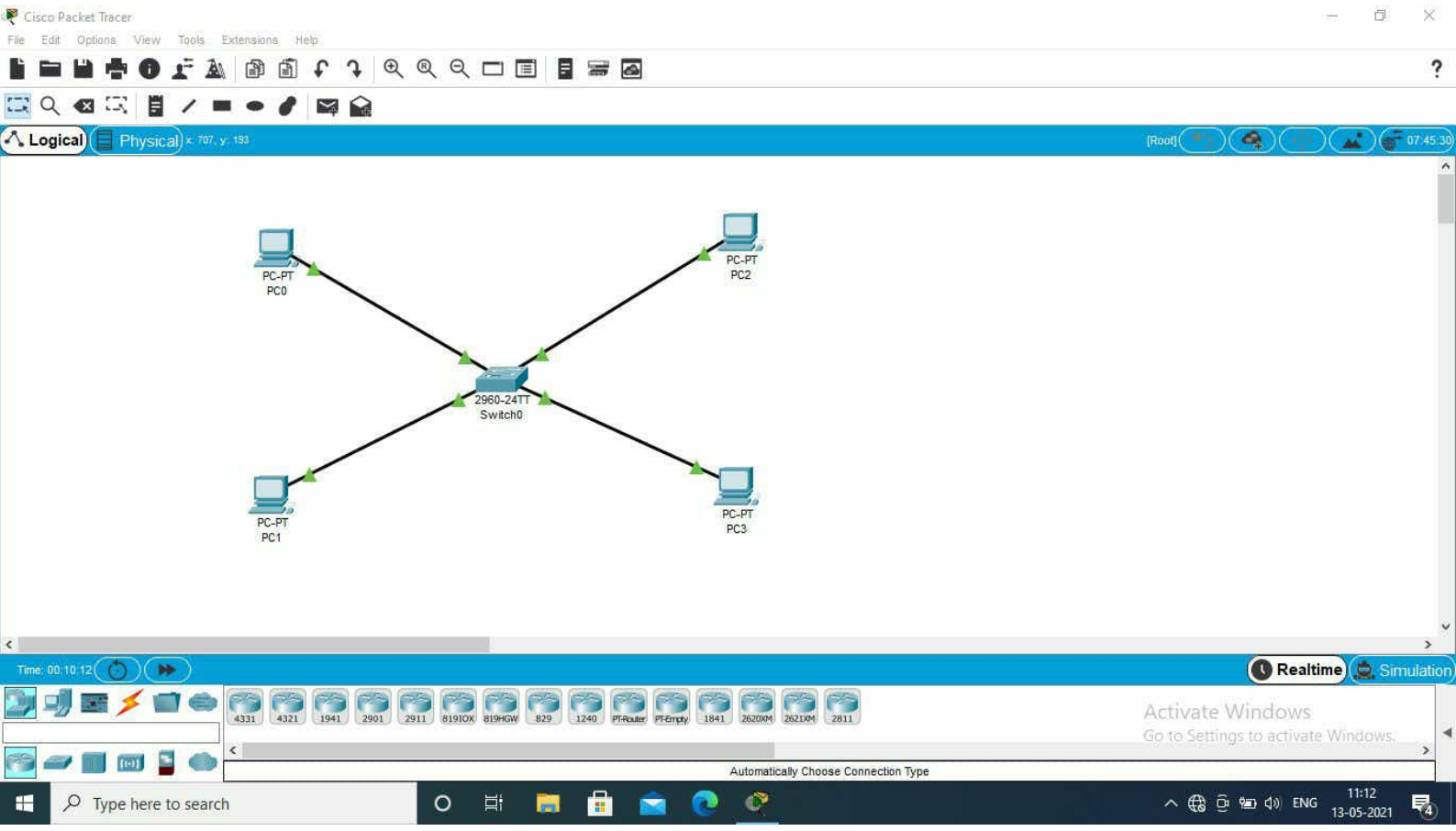
Step 4: Click connections icon, then click automatically choose connection & connect all PCs.

Step 5: Click on PC0
5.1 – Desktop tab, then click IP configuration
5.2 – Set IP address
5.3 – Close Window PC0

Step 6 - Repeat step 5 for PC1 to PC9.

Step 7 - Now click on any PC, then click on command Prompt & with the help of ping command check whether devices are connected or not.

Step 8 - Now, drag & PDU(message) and click on user 1 and user 5.


Cisco Packet Tracer
File Edit Options View Tools Extensions Help
Logical
Physical
x: 707, y: 193
[Root]
07:45:30
PC-PT
PC0
PC-PT
PC2
2960-24TT
Switch0
PC-PT
PC1
PC-PT
PC3
Time: 00:10:12
Realtime
Simulation
4331
4321
1941
2901
2911
819IOX
819HGW
829
1240
PT-Router
PT-Empty
1841
2620XM
2621XM
2811
Activate Windows
Go to Settings to activate Windows.
Automatically Choose Connection Type
Type here to search
ENG
11:12
13-05-2021

Problem Statement 2 - There are two organizations in a city named GEU and GEHU, design a network b/w SOC department of GEU and GEHU. Also, show the comm. b/w user 1 of GEU and user 2 of GEHU.

Objective - To design a network of SOC.

Description - We have to design a network b/w the SOC dept. of GEU and GEHU.

Solution -

Step 1: Open cisco packet tracer.

Step 2: Select networking devices, drag & drop routers & switches & then configure them.

Step 3: Click on end devices, drag & drop PCs.

Step 4: Click on connections icon & then choose 'automatically choose connection' and connect PCs with switches & switches with routers.

Step 5: Click on PC0

5.1 - Desktop tab, then click IP configuration

5.2 - Set IP address

5.3 - Close PC0 window

Step 6: Repeat Steps 5.1 to 5.3 for all the PCs.

Step 7: With the help of ping command check whether devices are working or not.

Step 8 - Click on PDU and then click on user1 of GEU & user 2 of GEHU.

PC0

Physical Config Desktop Programming Attributes

Command Prompt

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Packet Tracer PC Command Line 1.0
C:\>ping 192.168.2.2

Pinging 192.168.2.2 with 32 bytes of data:

Reply from 192.168.2.2: bytes=32 time=469ms TTL=128
Reply from 192.168.2.2: bytes=32 time<1ms TTL=128
Reply from 192.168.2.2: bytes=32 time<1ms TTL=128
Reply from 192.168.2.2: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.2.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 469ms, Average = 117ms

C:\>ping 192.168.2.1

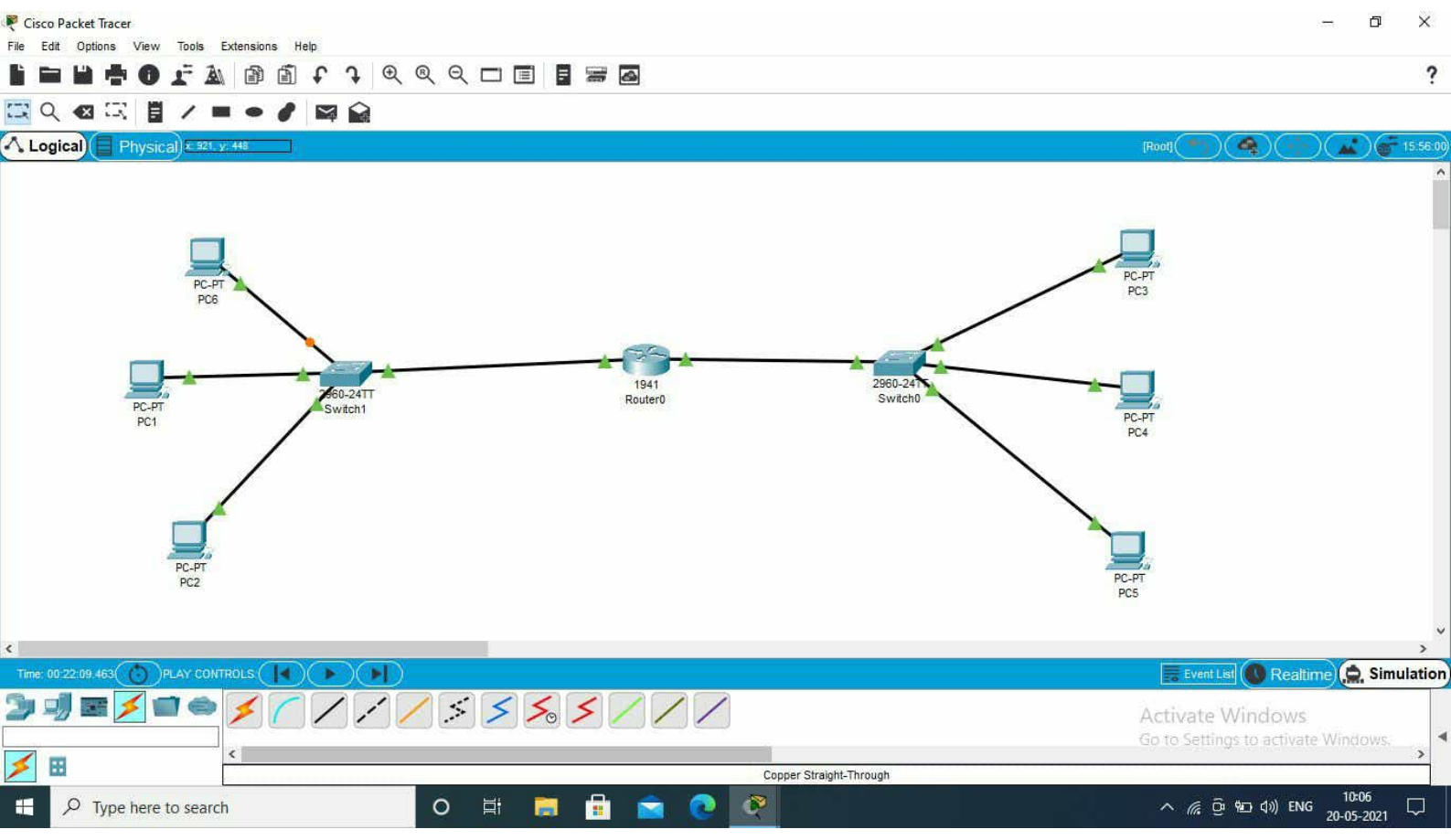
Pinging 192.168.2.1 with 32 bytes of data:

Reply from 192.168.2.1: bytes=32 time=10ms TTL=128
Reply from 192.168.2.1: bytes=32 time<1ms TTL=128
Reply from 192.168.2.1: bytes=32 time=1ms TTL=128
Reply from 192.168.2.1: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.2.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 10ms, Average = 3ms

C:\>
```


Top


Cisco Packet Tracer
File Edit Options View Tools Extensions Help
Logical
Physical
[Root]
PC-PT PC6
PC-PT PC1
2960-24TT Switch1
1941 Router0
2960-24TT Switch0
PC-PT PC3
PC-PT PC4
PC-PT PC5
PC-PT PC2
Time: 00:22:09.463
PLAY CONTROLS
Event List
Realtime
Simulation
Activate Windows
Go to Settings to activate Windows.
Copper Straight-Through
Type here to search
ENG
10:06
20-05-2021