MALIK ZOHAIB MUSTAFA

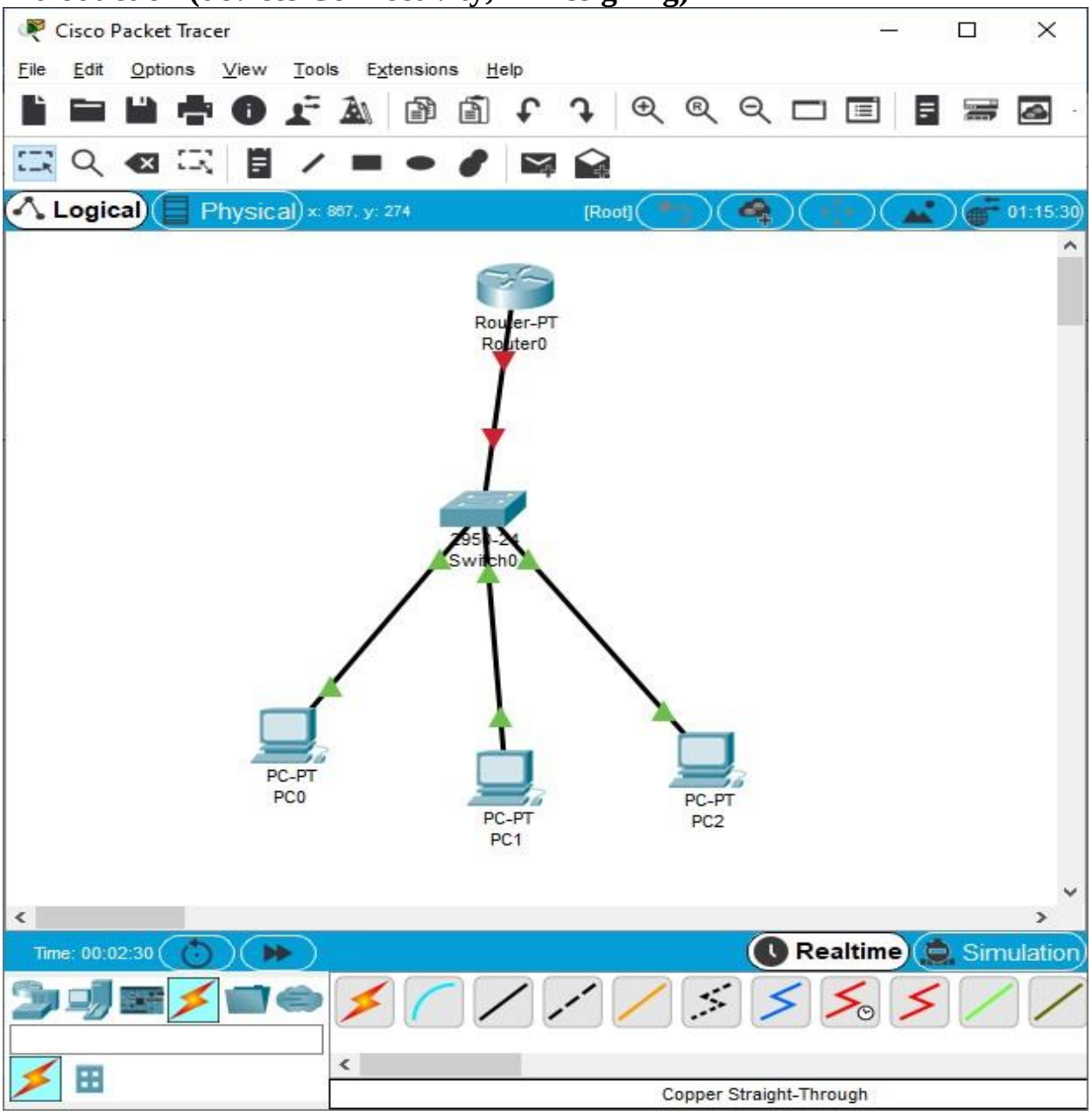
01-134192-030

BSCS-4B

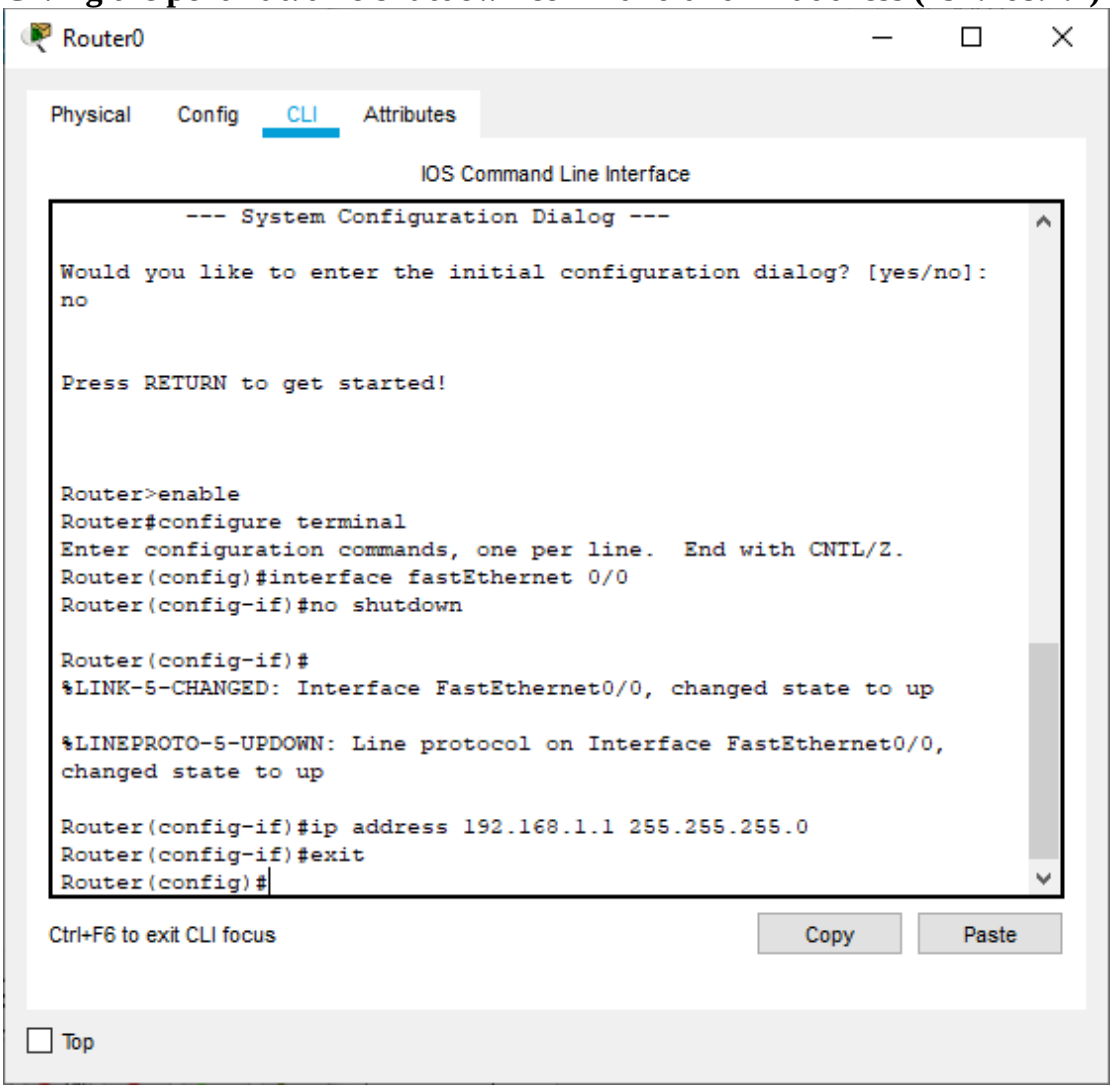
Q1: **Configuration of Dynamic Host Configuration Protocol (DHCP)**

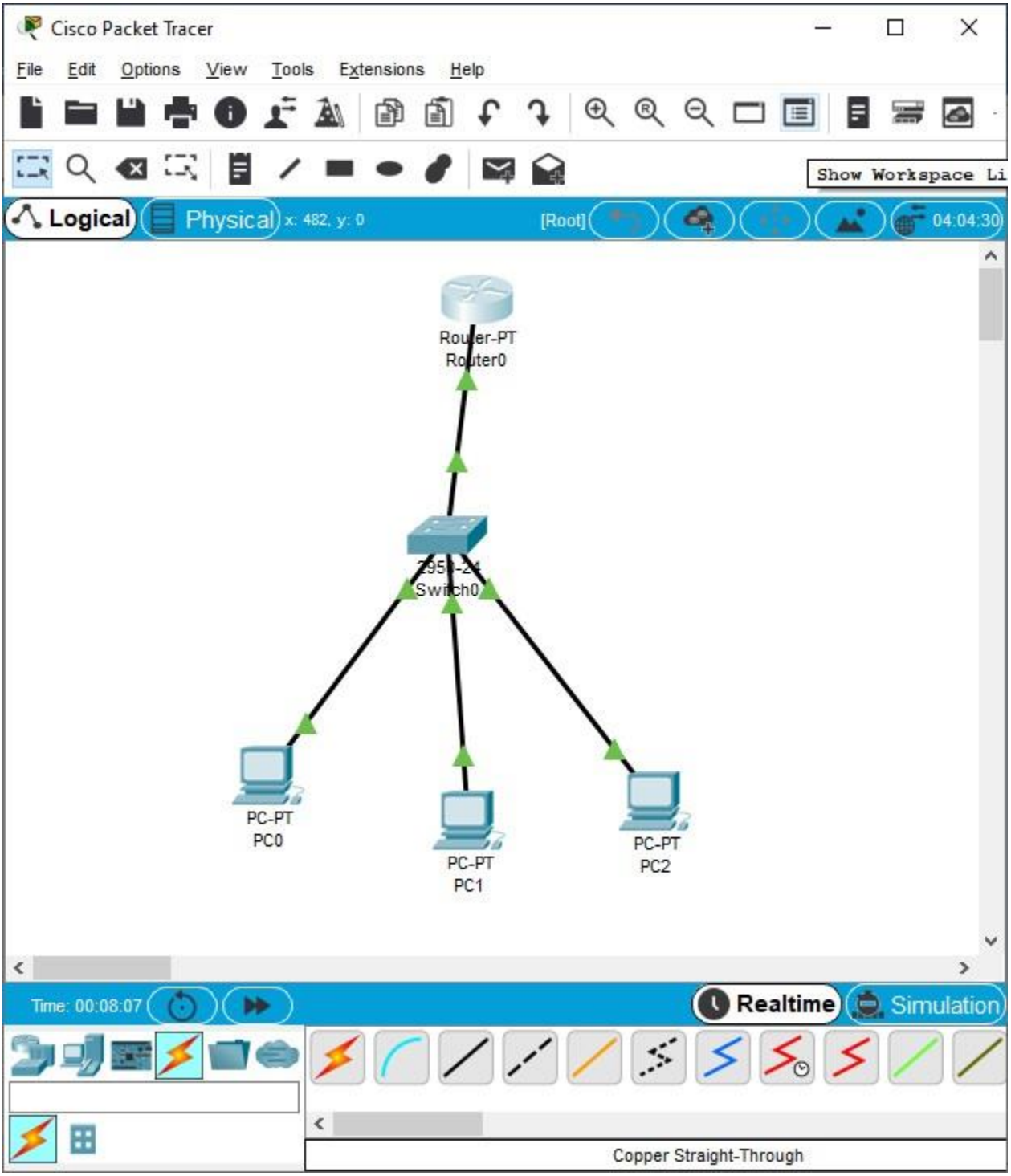
Tasks:

Introduction (devices Connectivity, IP Assigning)

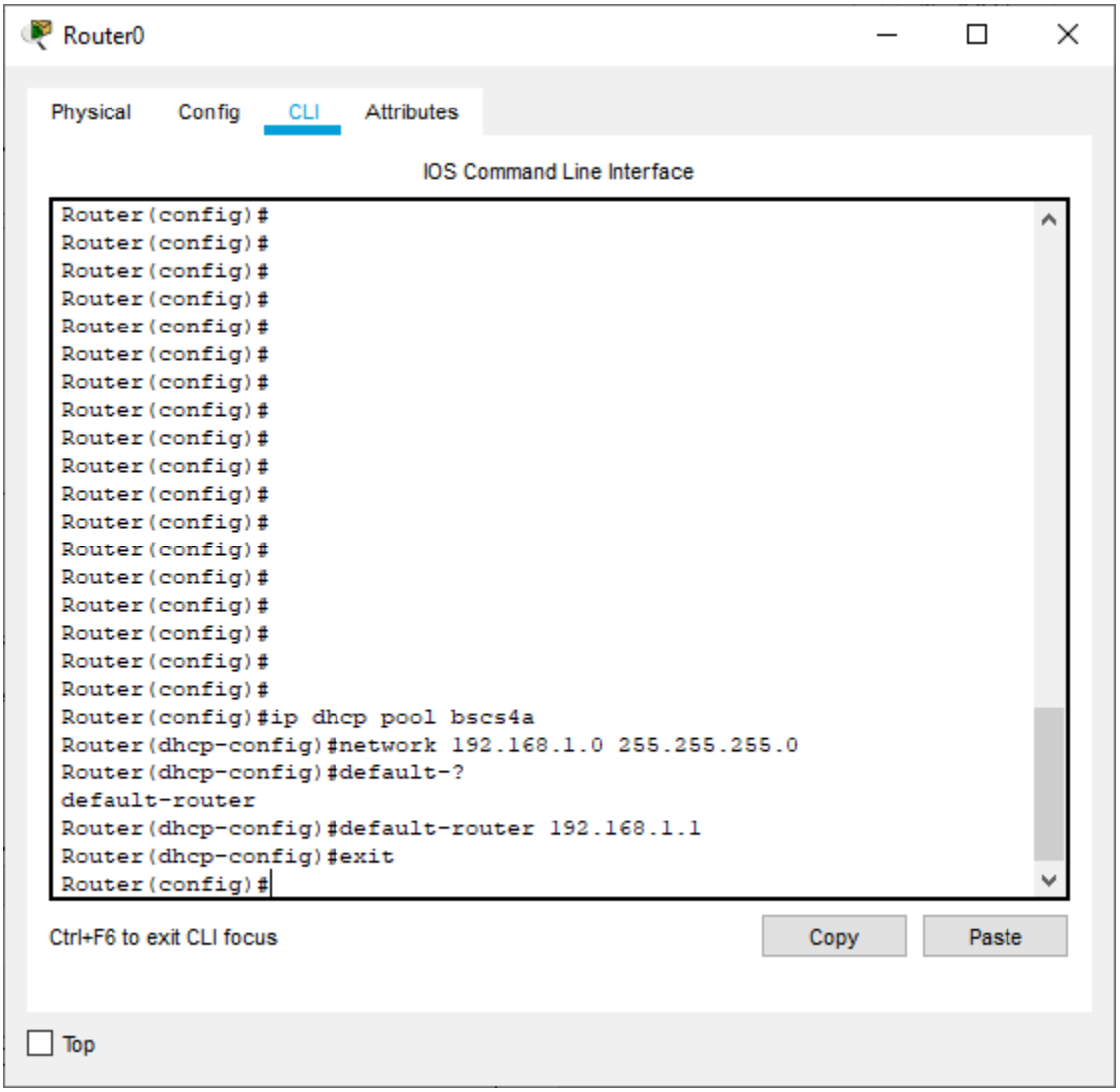


Giving the port Fa0/0 no shutdown command and IP address (192.168.1.1)

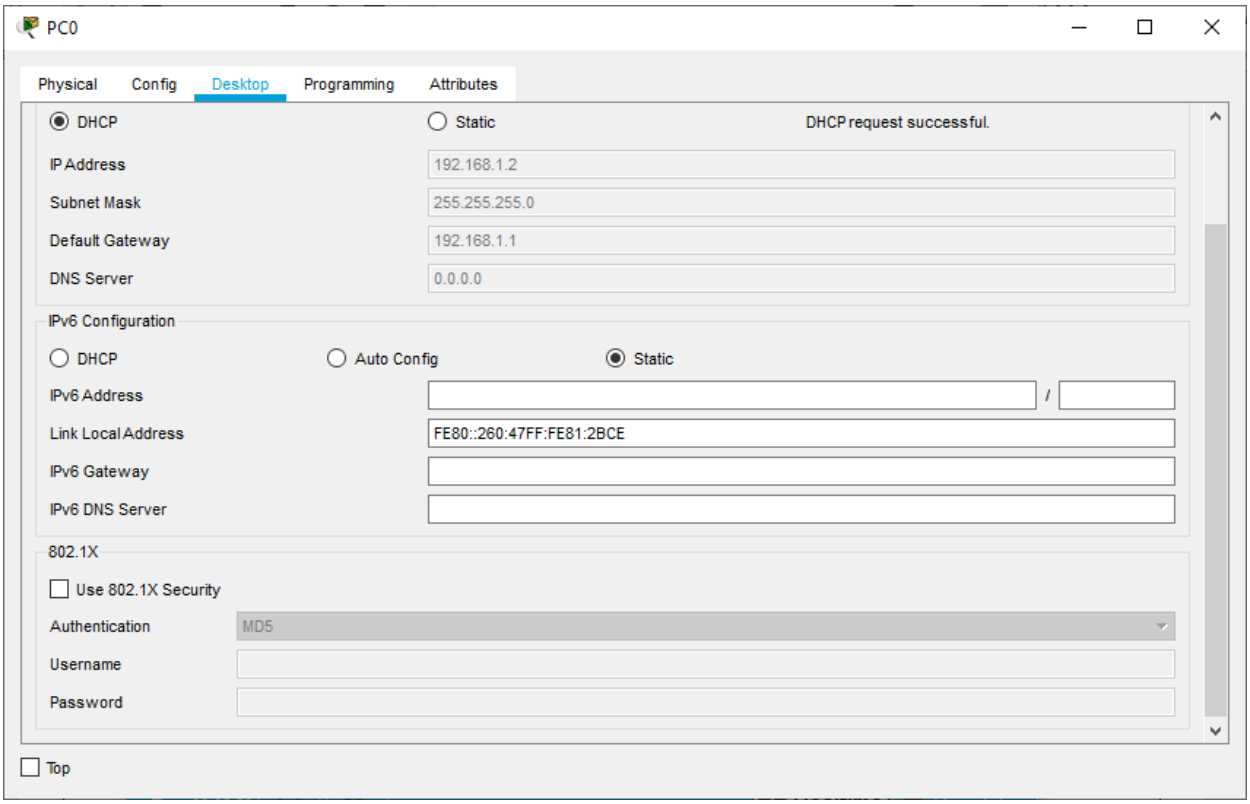




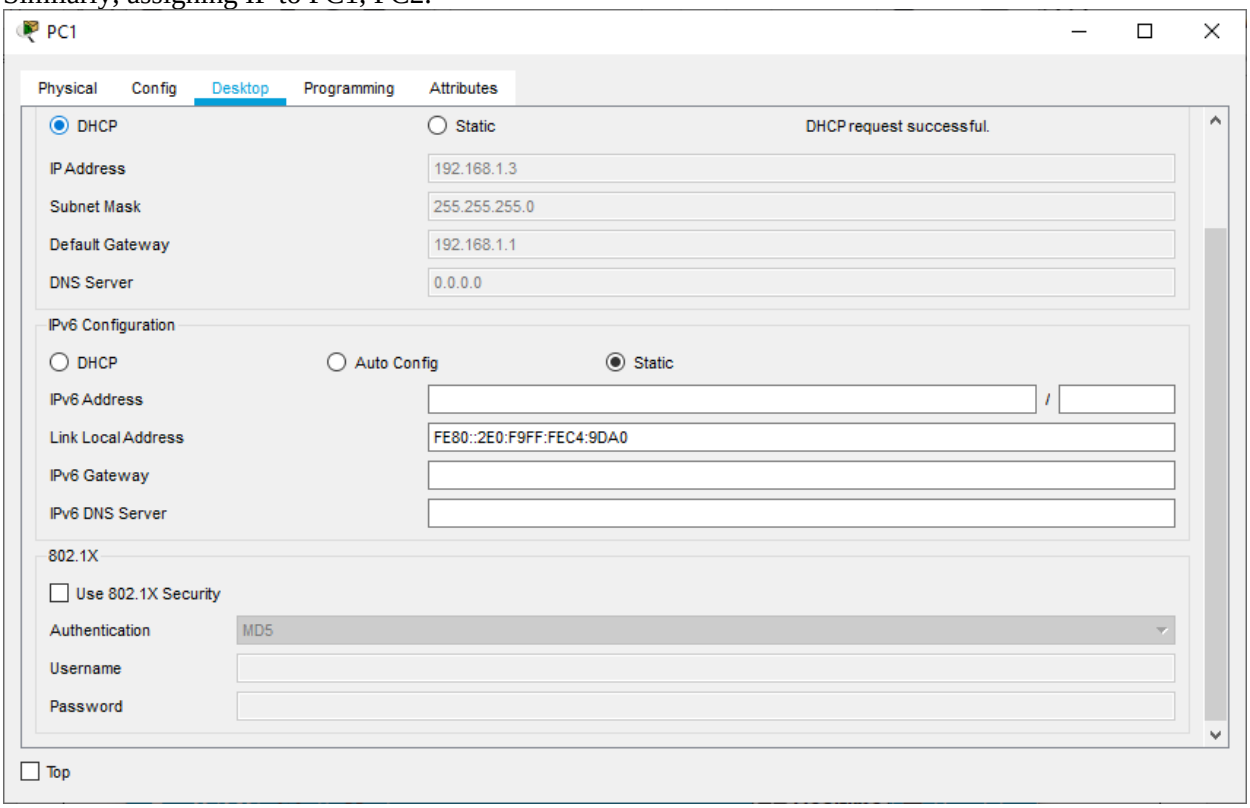
Now creating a DHCP pool named (bscs4a) to automatically assign IPs to PCs connected to the router.

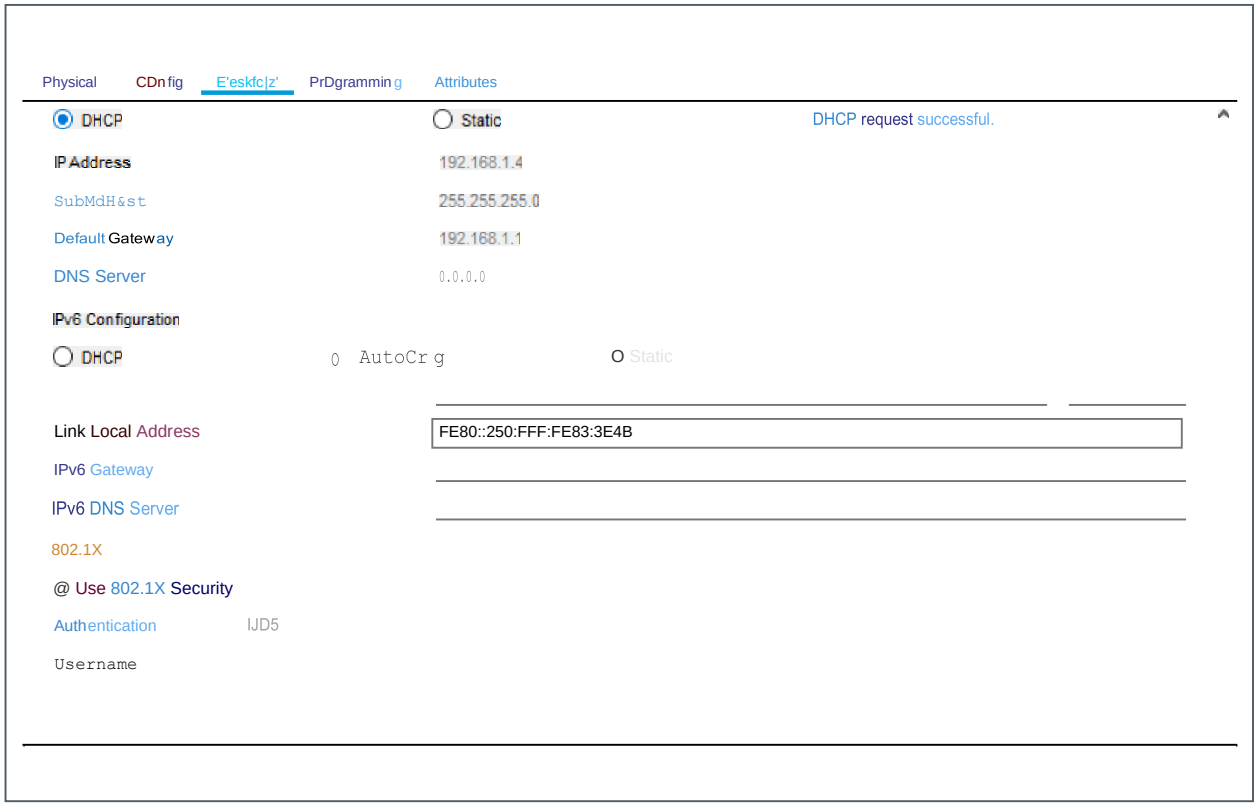


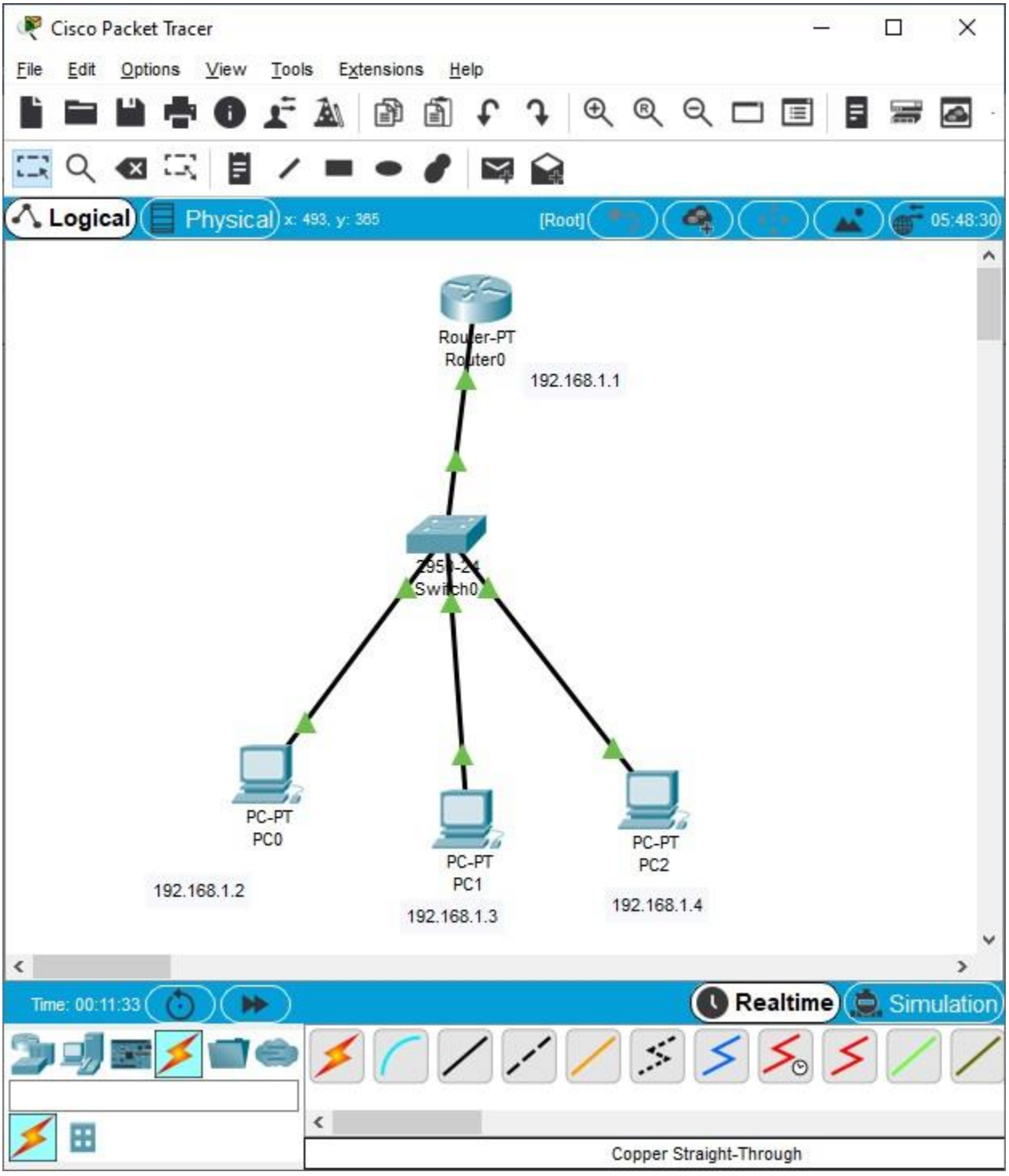
Now we will assign the IPs to computer by DHCP pool. Assigning IP to PC0.



Similarly, assigning IP to PC1, PC2.

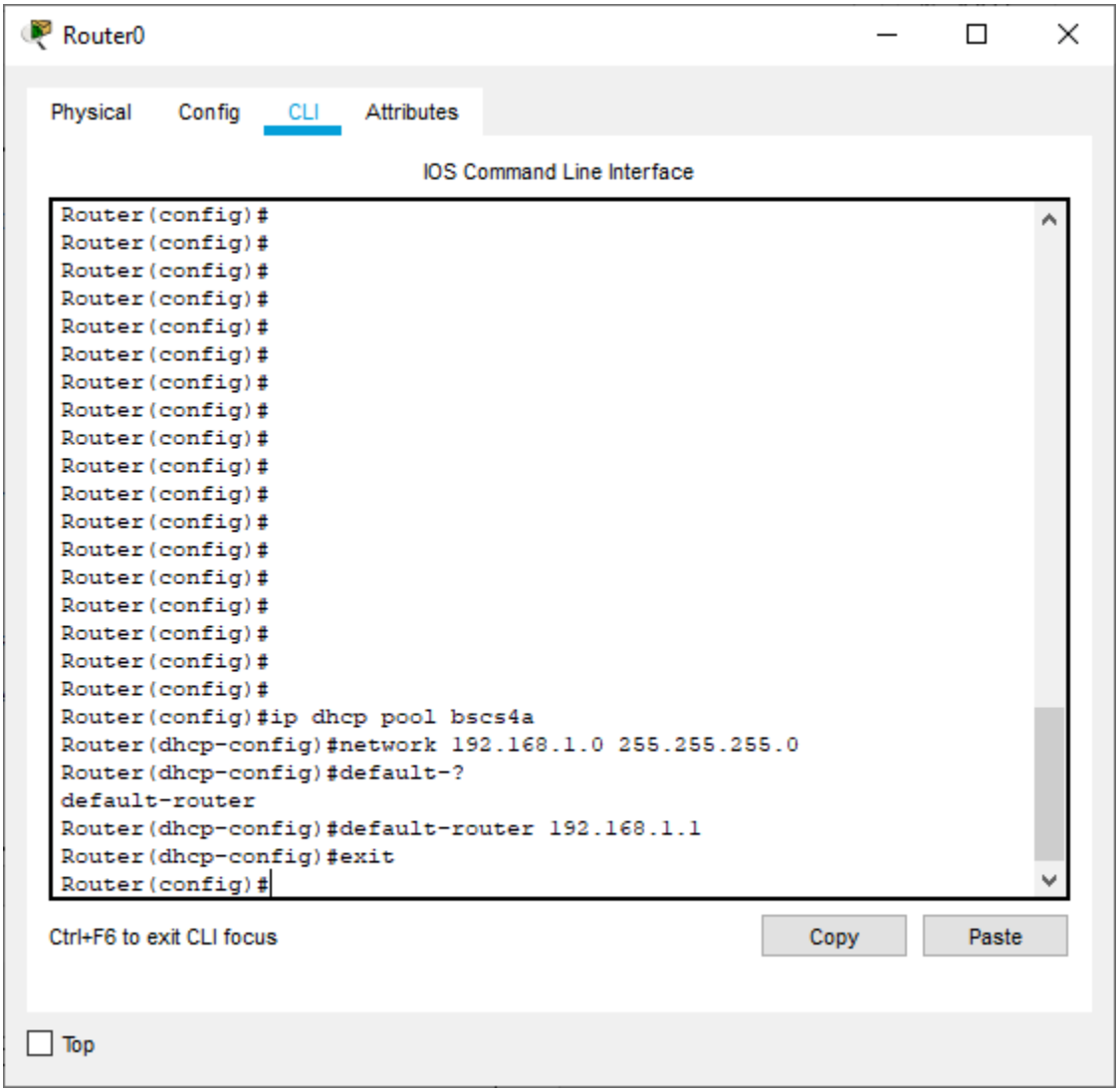



Physical
CDn fig
E'eskfc|z'
PrDgrammin g
Attributes
DHCP
Static
DHCP request successful.
IP Address
192.168.1.4
SubMdH&st
255.255.255.0
Default Gateway
192.168.1.1
DNS Server
0.0.0.0
IPv6 Configuration
DHCP
0 AutoCr g
O Static
Link Local Address
FE80::250:FFF:FE83:3E4B
IPv6 Gateway
IPv6 DNS Server
802.1X
@ Use 802.1X Security
Authentication
IJD5
Username



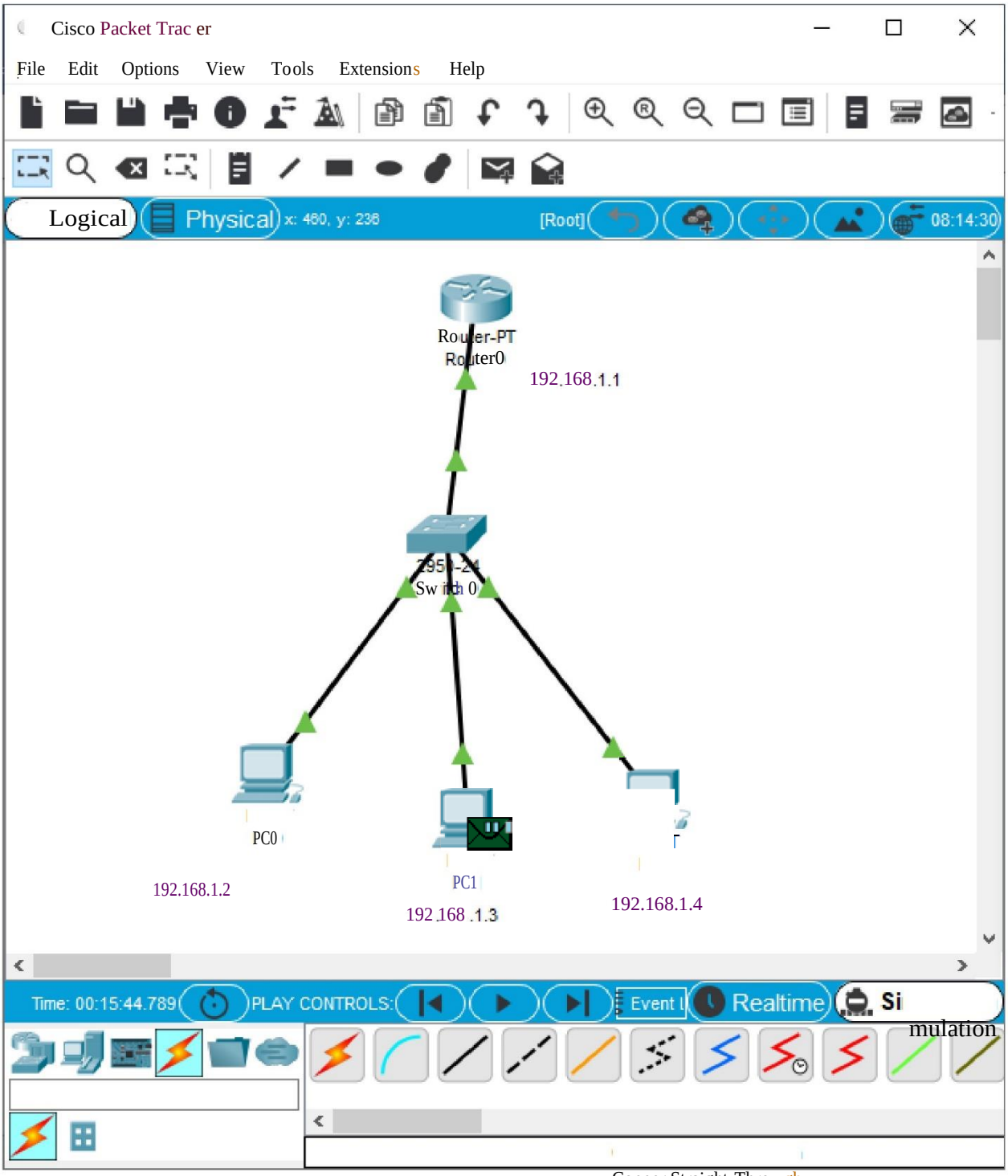
Implementation of Dynamic Host Configuration protocol

Now creating a DHCP pool named (bscs4a) to automatically assign IPs to PCs connected to the router.

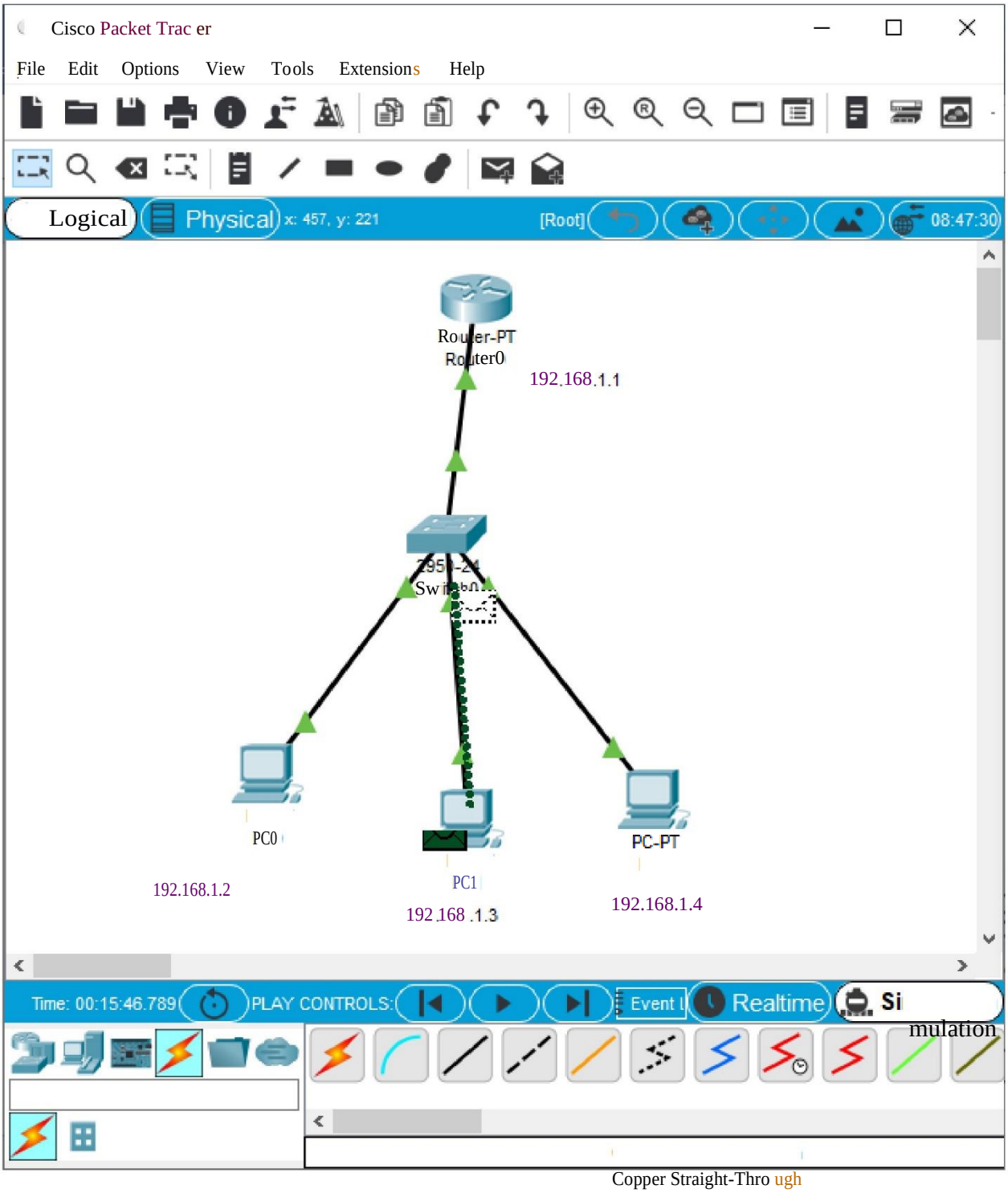


Packet Simulation

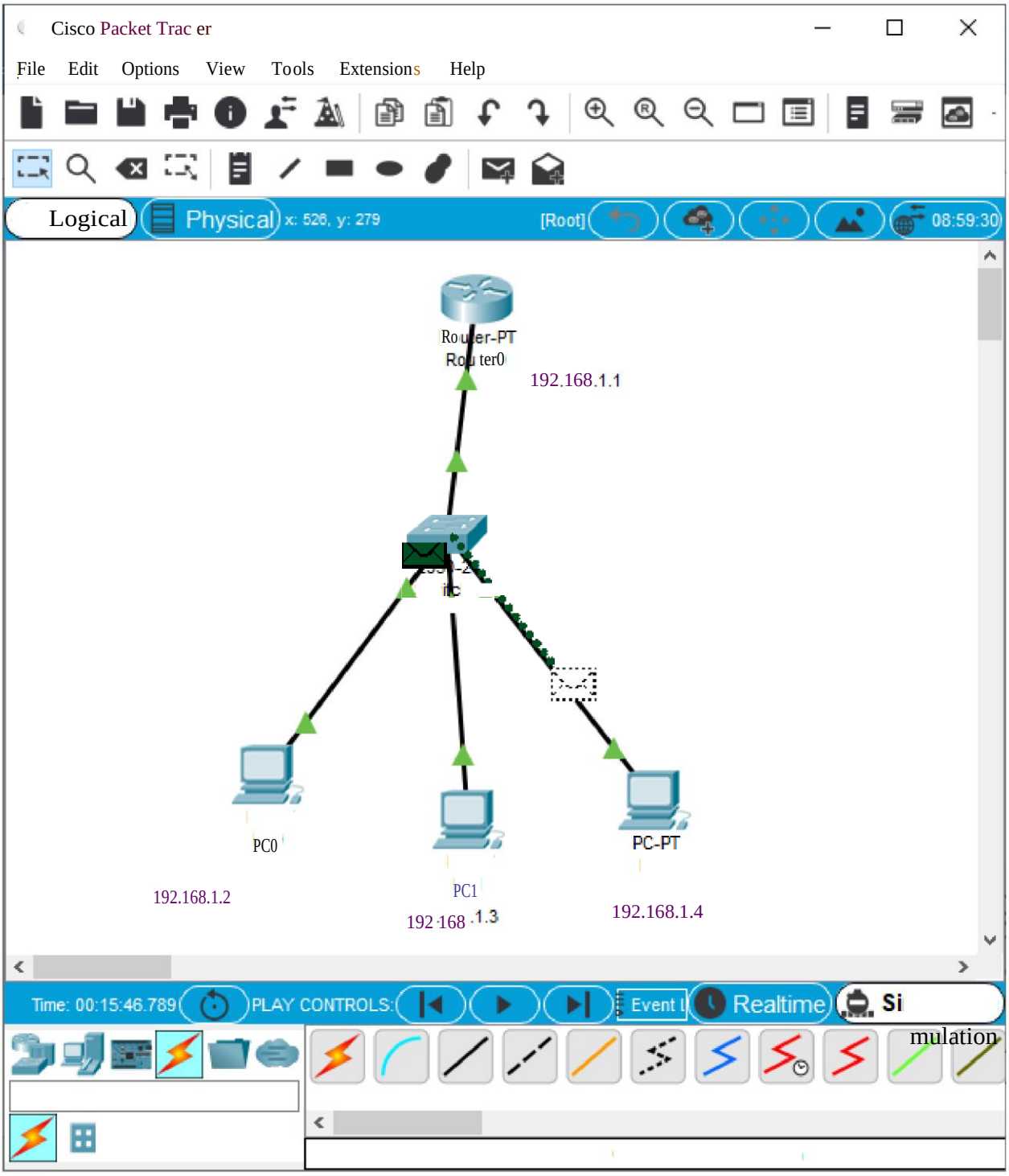
Packet simulation between PC1 and PC2.



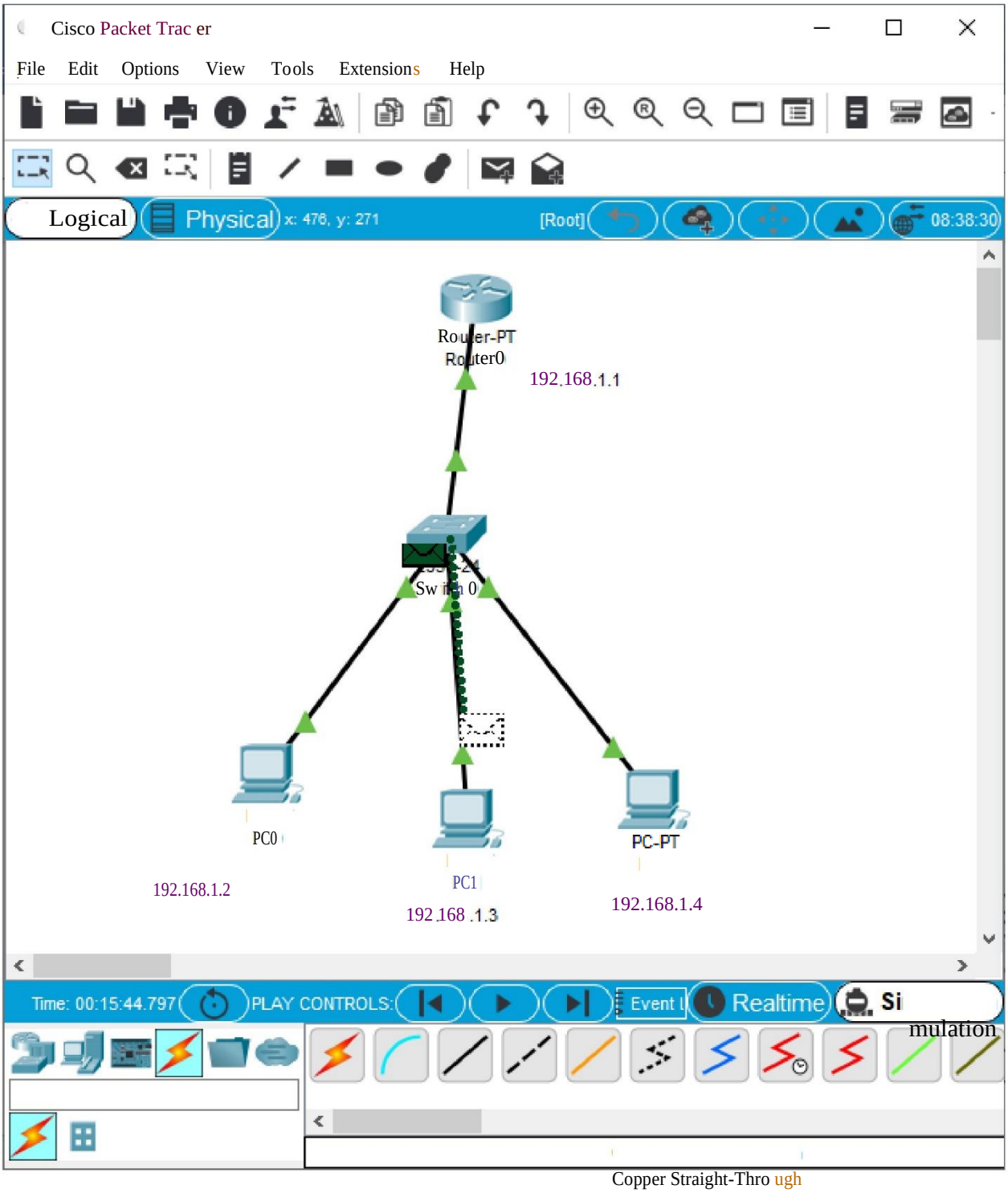
Copper Straight-Thro ugh



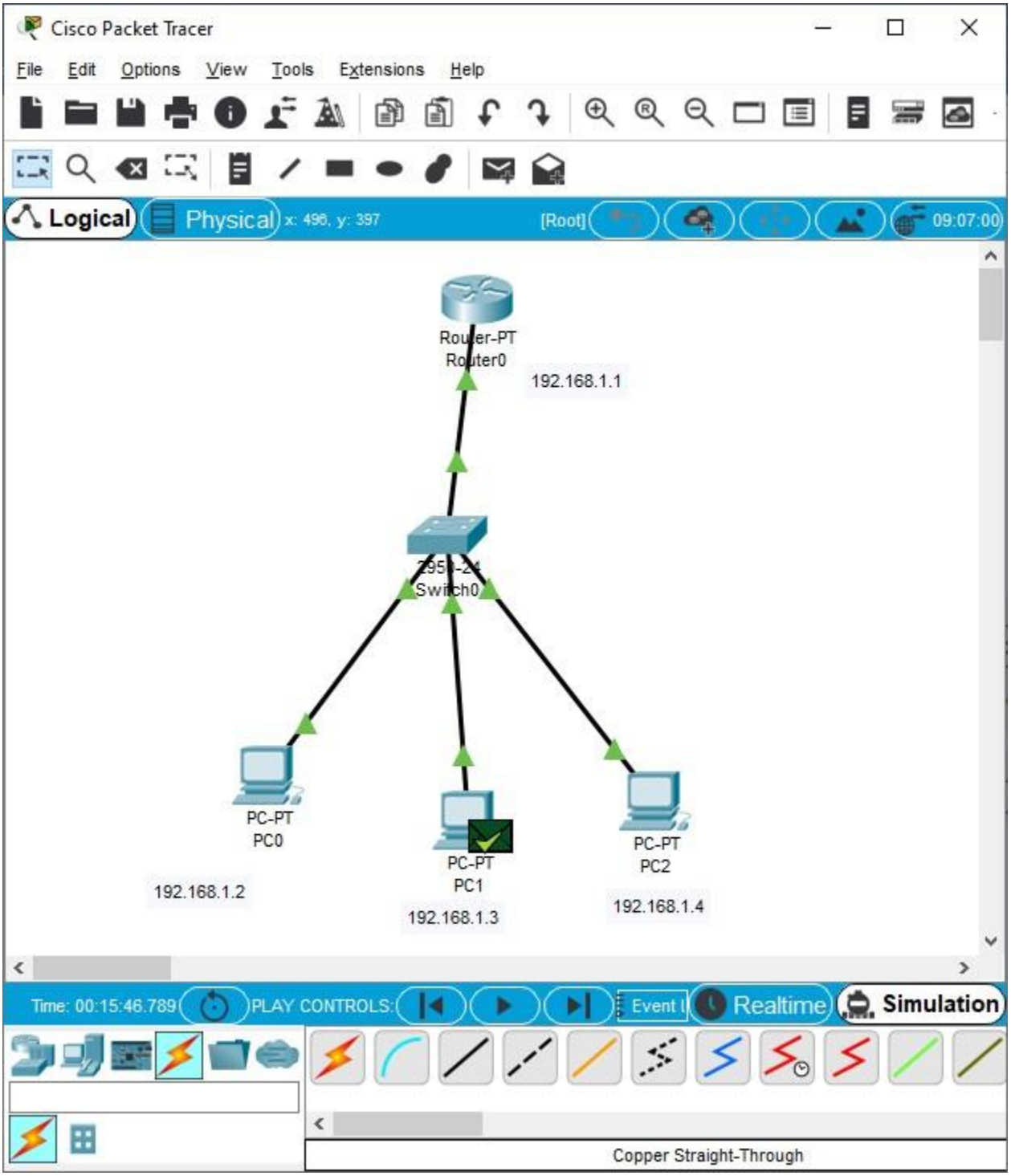
Copper Straight-Thro ugh



Copper Straight-Thro ugh

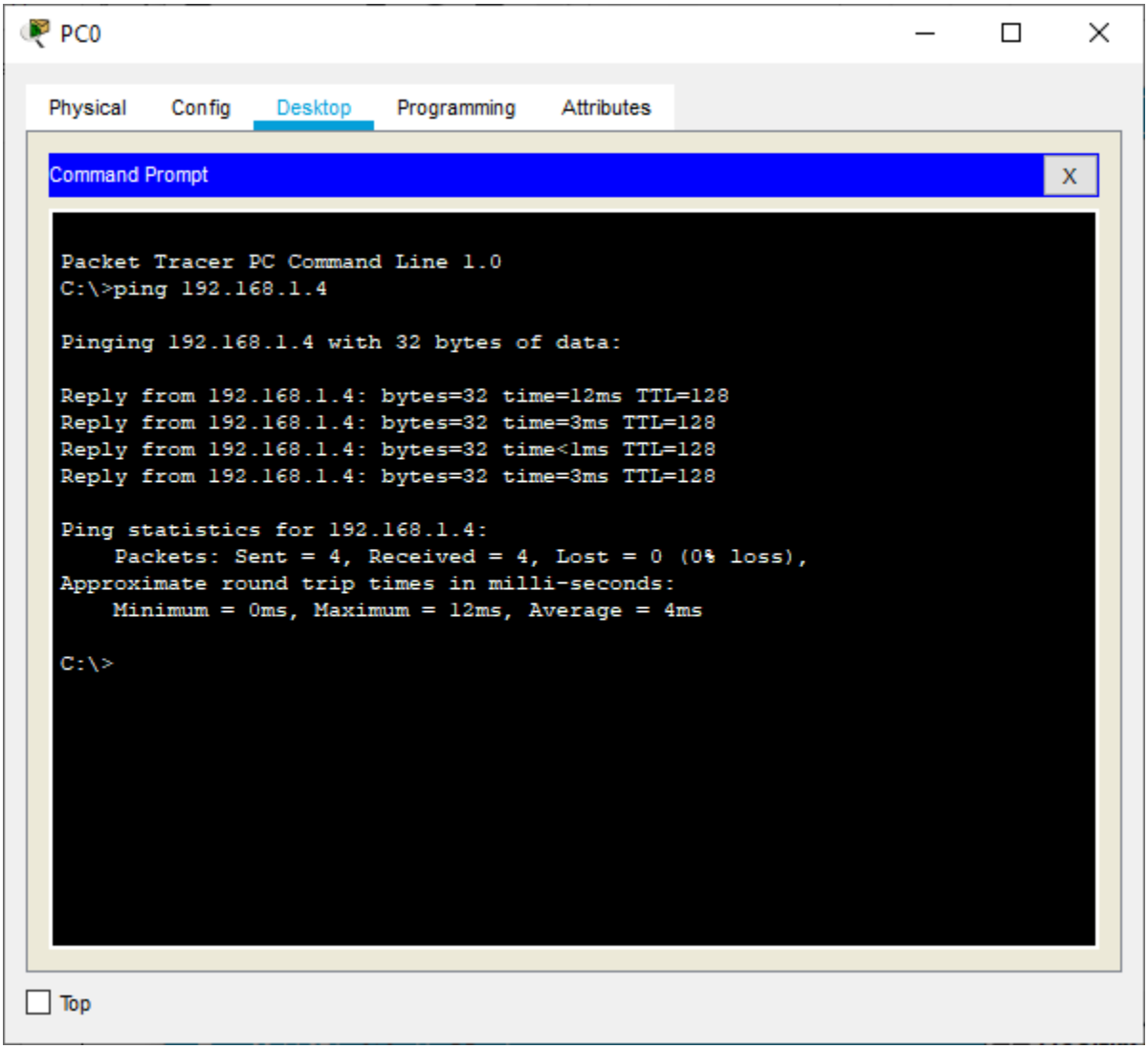


Copper Straight-Thro ugh

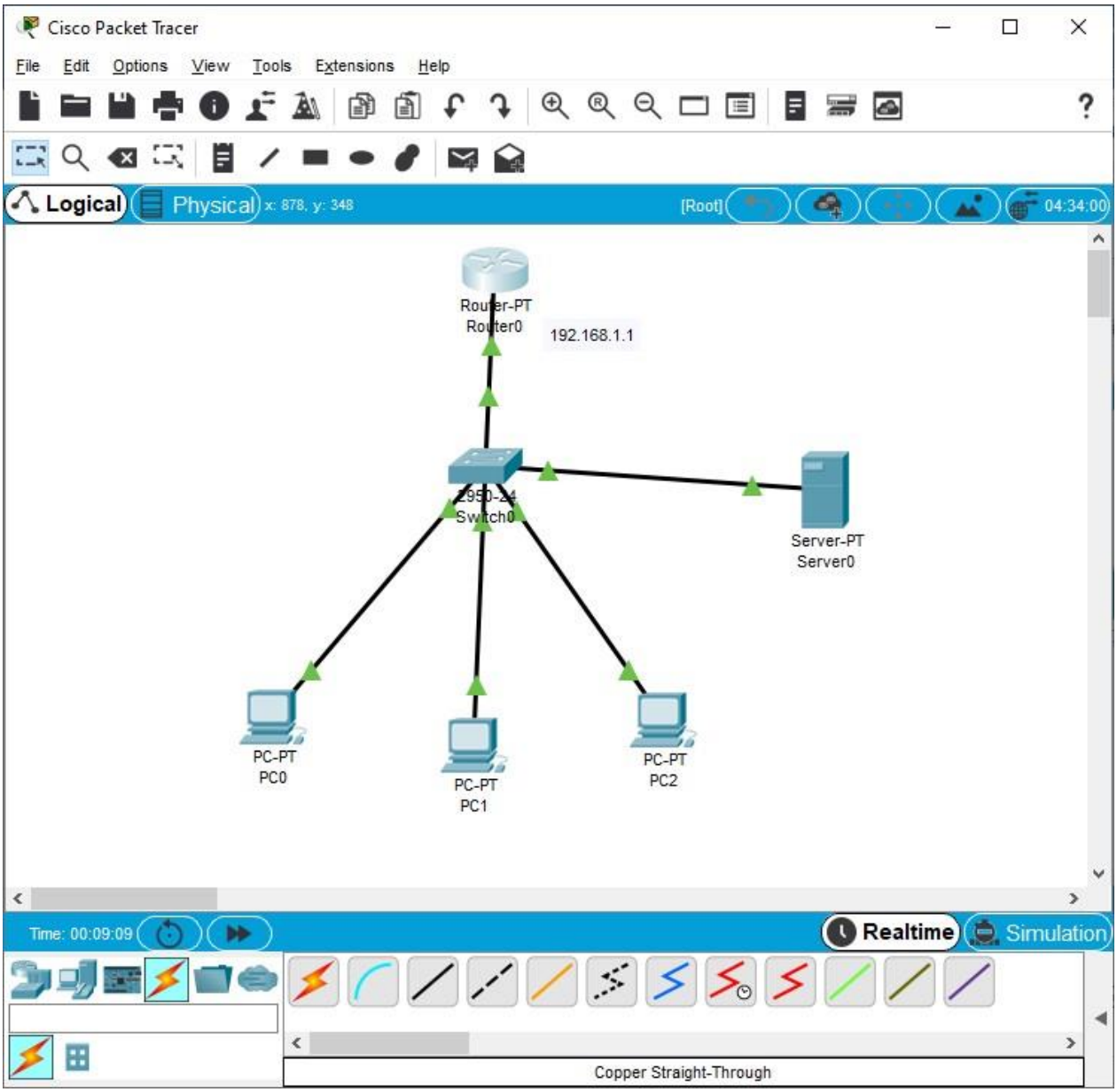


Connection Testing Between different Workstations

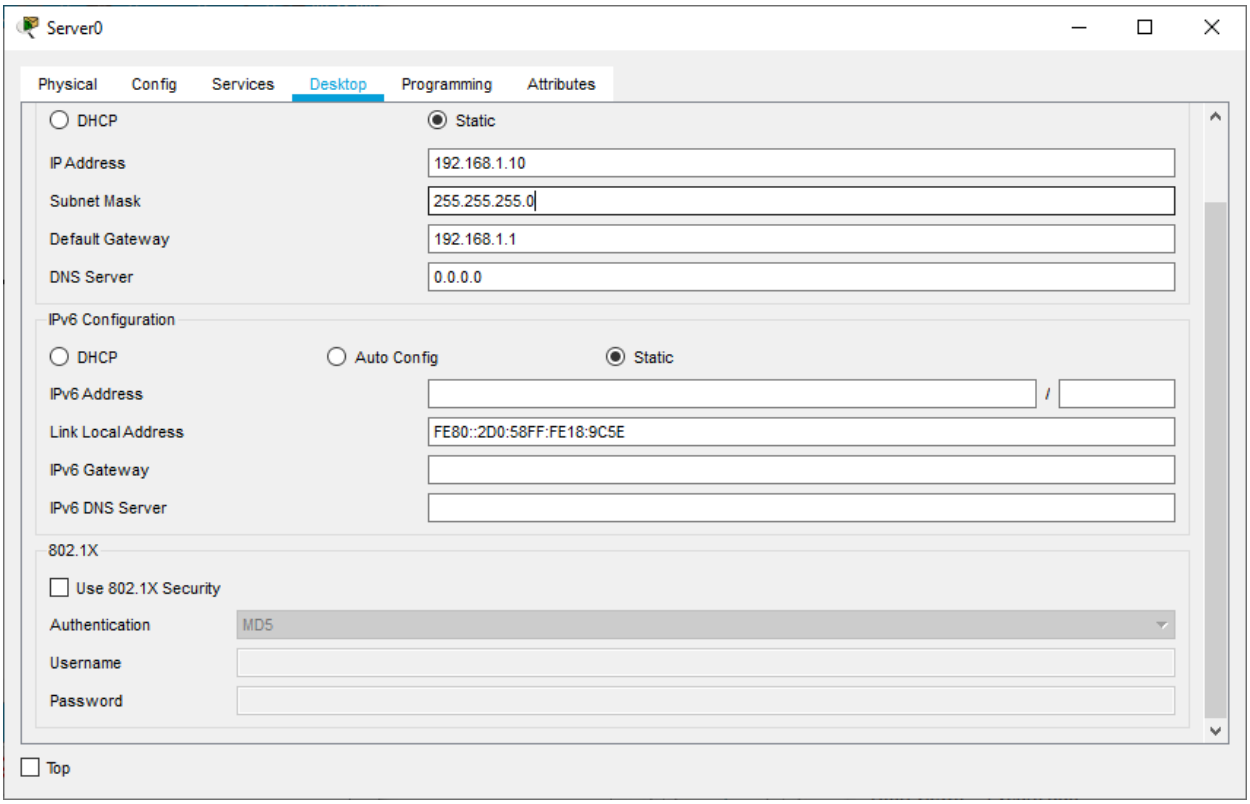
Testing the connection between PC0 and PC2



IP Assignation using DHCP Server

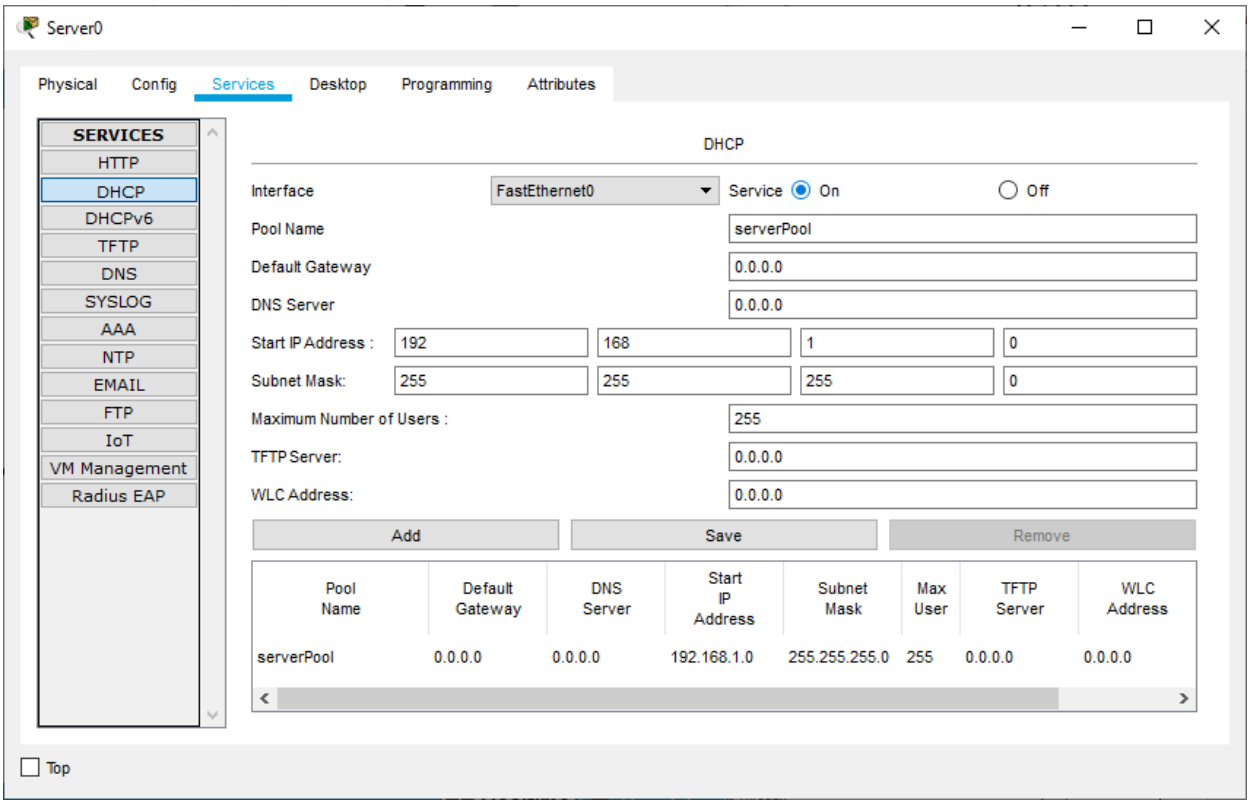


First, assigning the IP address to the DHCP server that is **192.168.1.10**

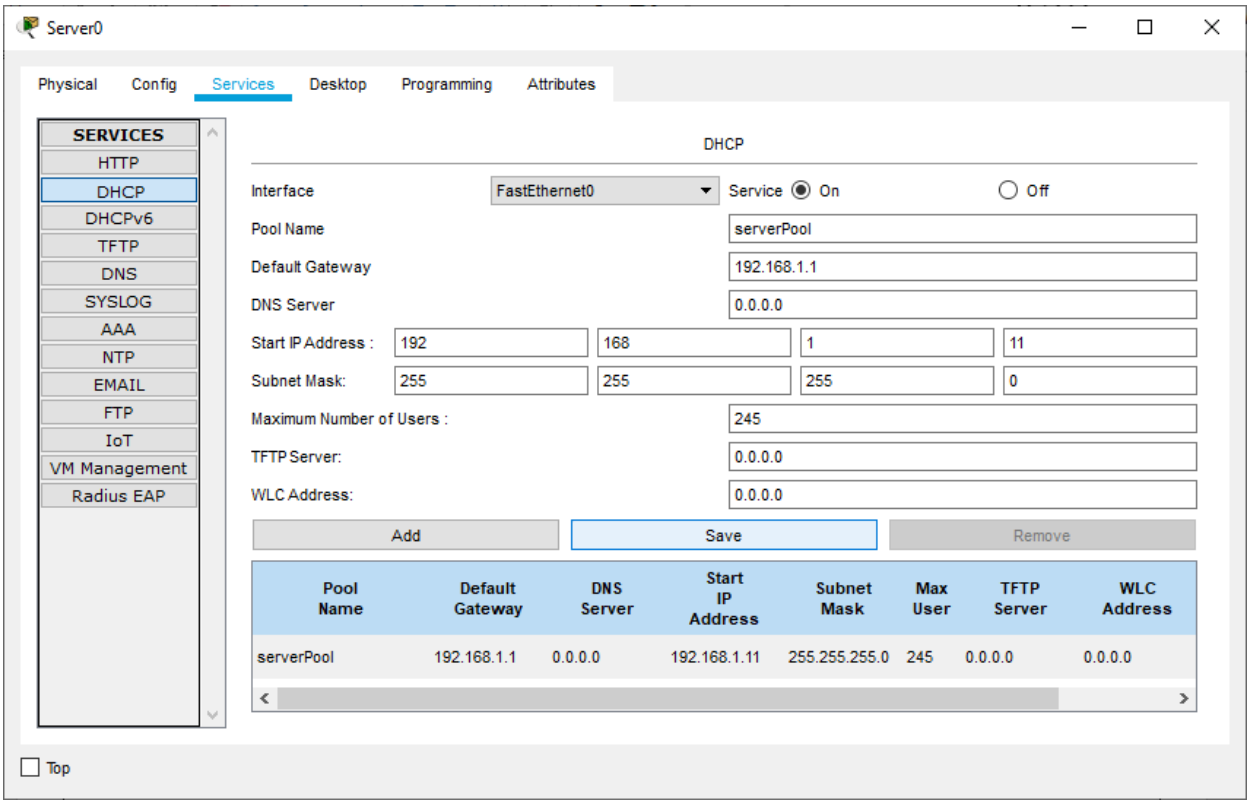


Then go to

Services □ DHCP and check Service ON.

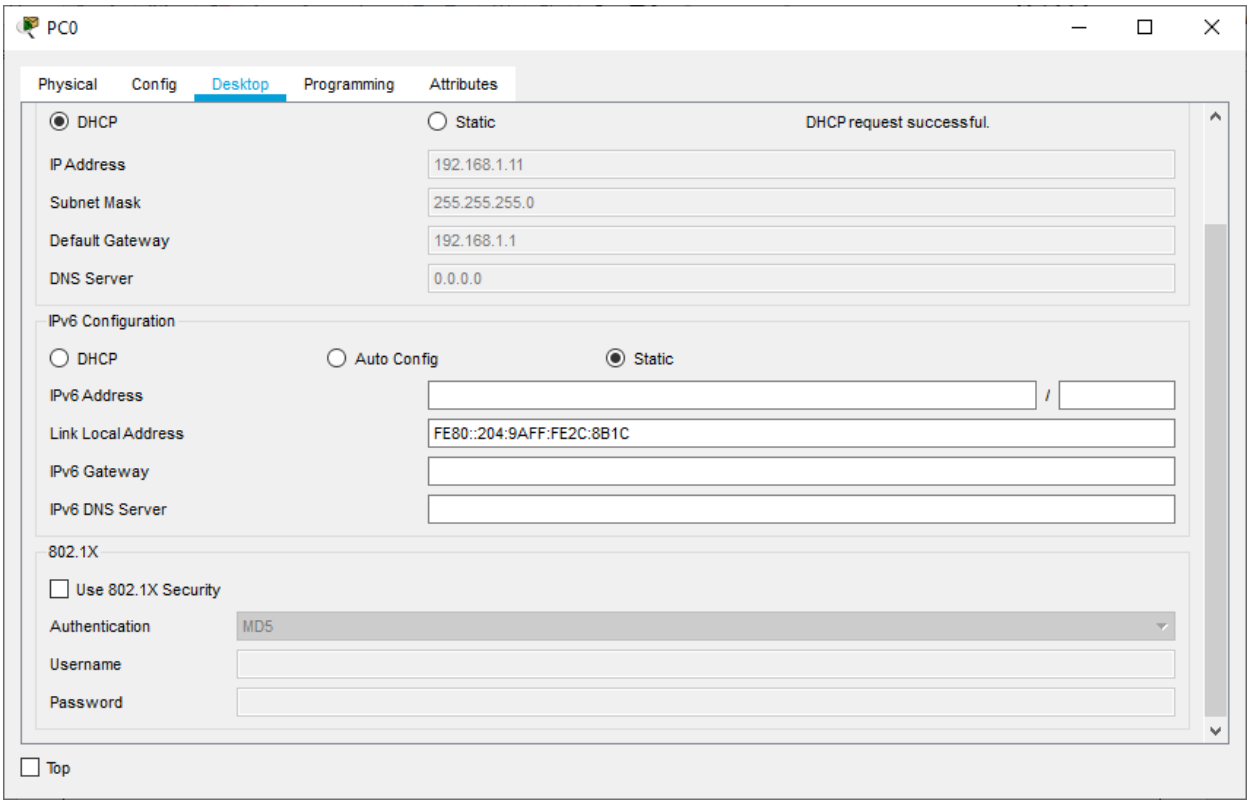


Default Gateway will be 192.168.1.1 and **Start IP Address** will be 192.168.1.11 and then **Save** it.

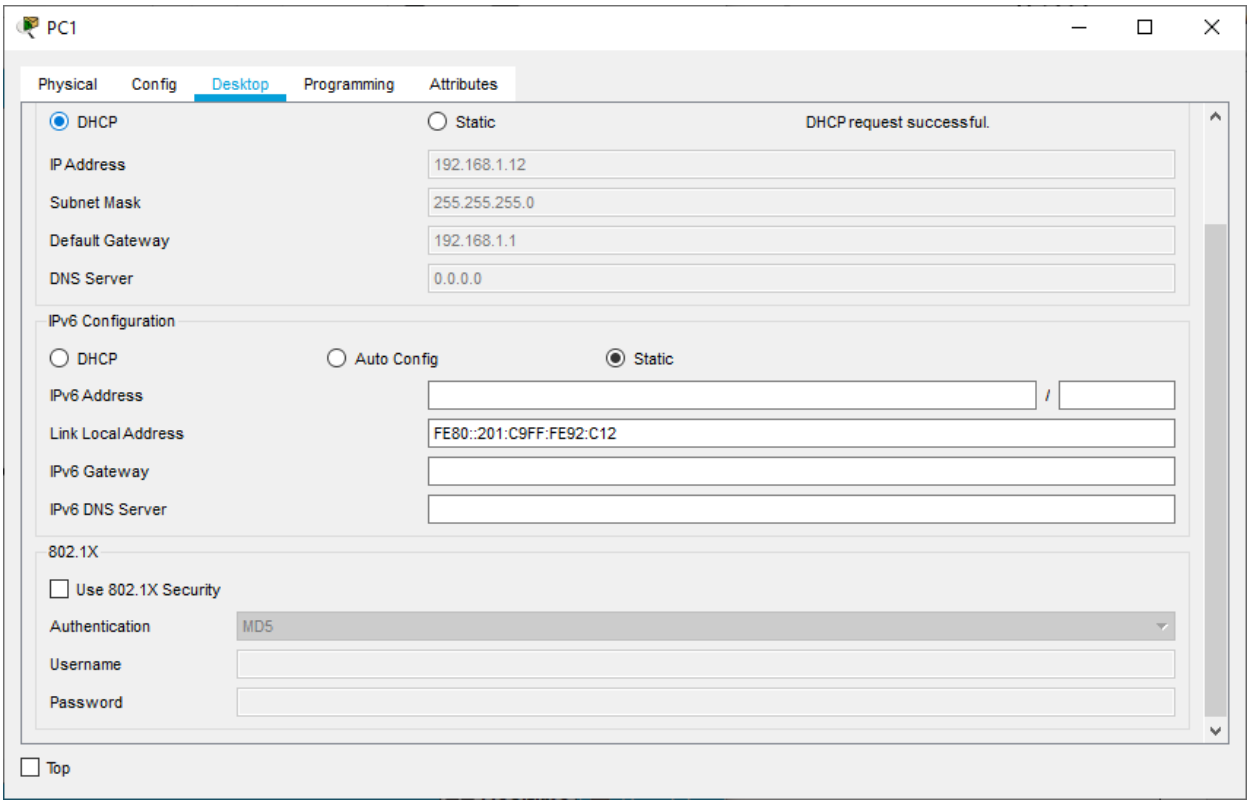


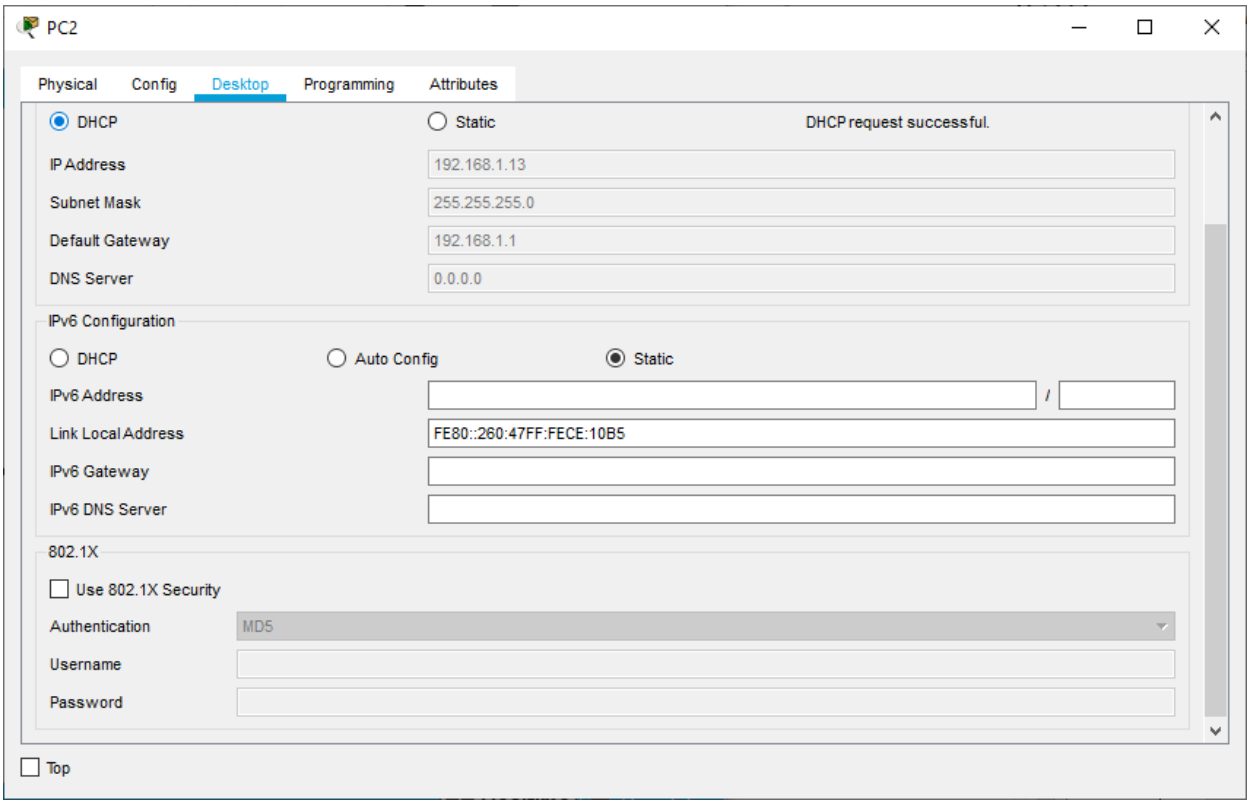
Now, assigning the IPs to computer automatically by DHCP server.

Assigning IP to PC0



Similarly, assigning the IPs to PC1 and PC2.





So that is how you assign the IPs automatically through DHCP server.

CiEco Packet Tracer

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•", Logical • . . •.. ‹ ‹ ‹'

Rou PT
Ro er0 1›2.168.1.1

Serve-PT
Server0

192.168.1.1 0

Pc0 p p 192.168.1.1

192.1B8.1.11 PM 3

192.168.1.12

‹ Realtime — . ›

Co pper Stra ight-Thro ugh