DHCP Configuration:

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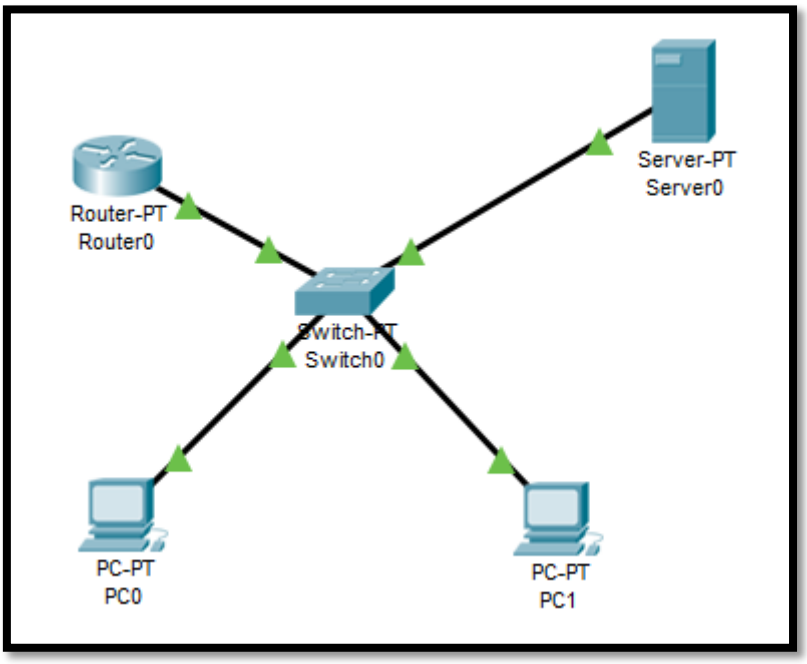
Aim: Configuring DHCP within a LAN in a Packet Tracer.

Procedure:

1. Create a topology as shown in the figure below.
2. Configure the Router fa0/0 interface.
3. Configure the DHCP server, make service **'ON',** PoolName: Give a name to the Pool, Default Gateway: 10.0.0.1, DNS Server: 10.0.0.2 & Start IP Address: 10.0.0.0 & Subnet Mask: 255.0.0.0 & Maximum Number of Users: 512 & TFTP Server: 10.0.0.2 now click on Add Button.
4. Now go to config in Global Settings set Gateway: 10.0.0.1 & DNS: 10.0.0.2 & config → IP Address: 10.0.0.2 & Subnet Mask: 255.0.0.0

Observation: PC0 & PC1 IP Addresses are Dynamically Allocated by the DHCP Server.

Topology:



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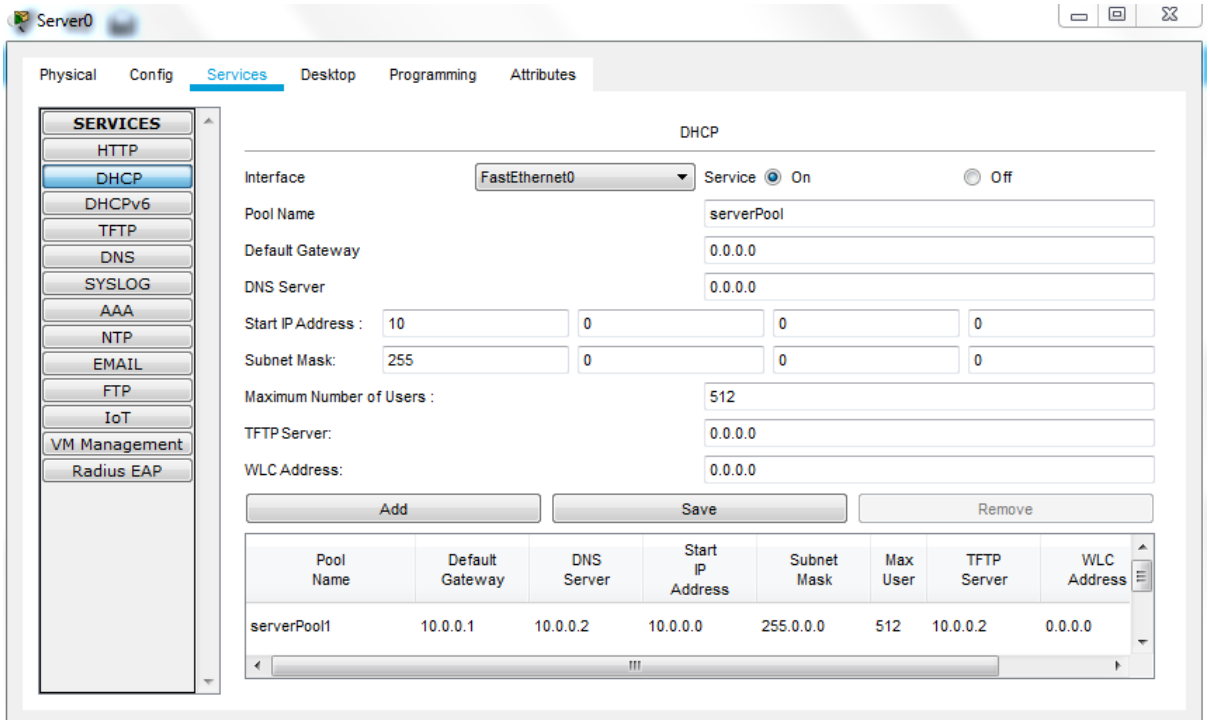
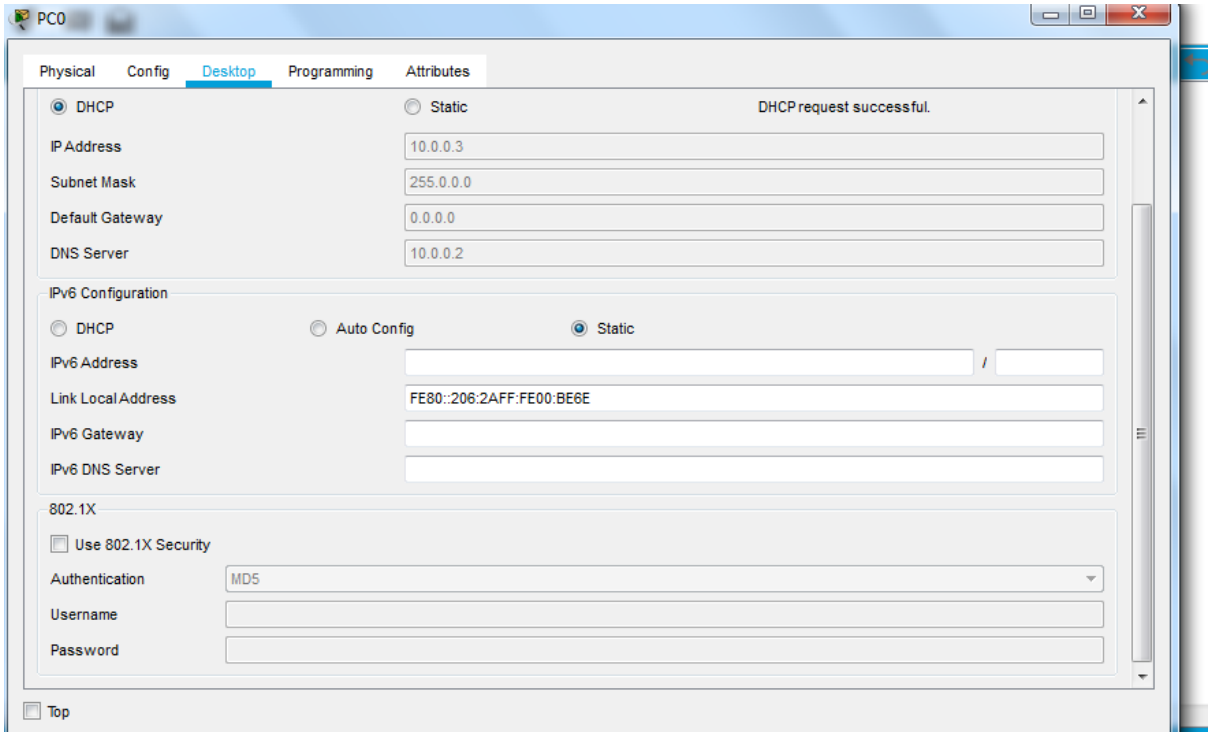
DHCP Server config:



PC0 IP Address Dynamically Allocated:



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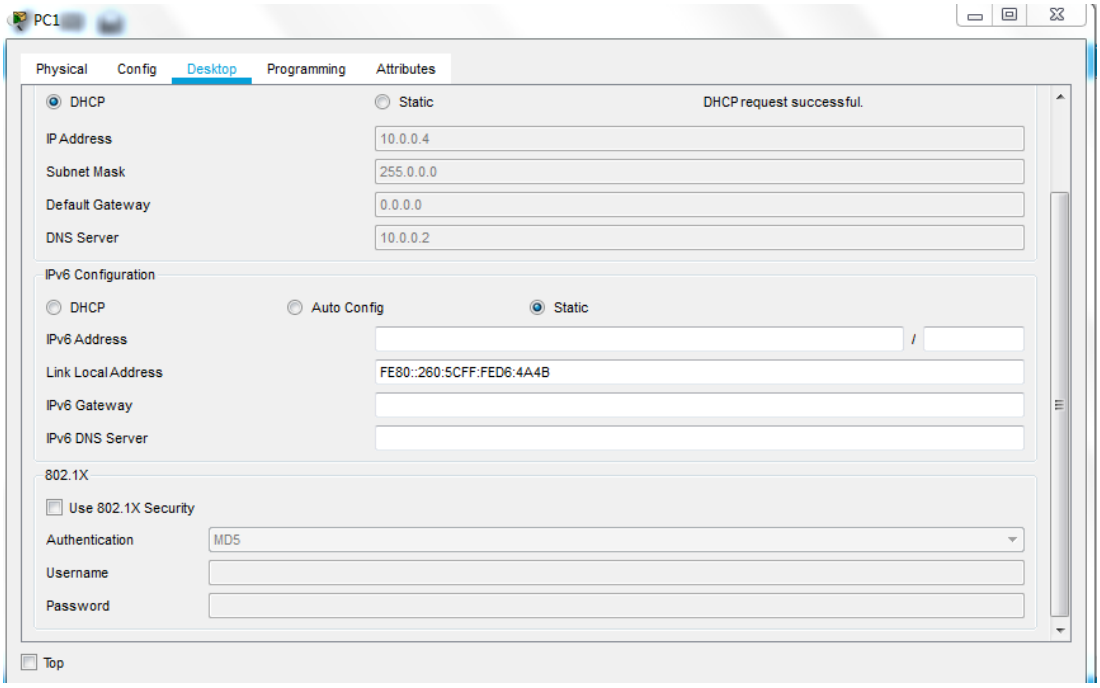
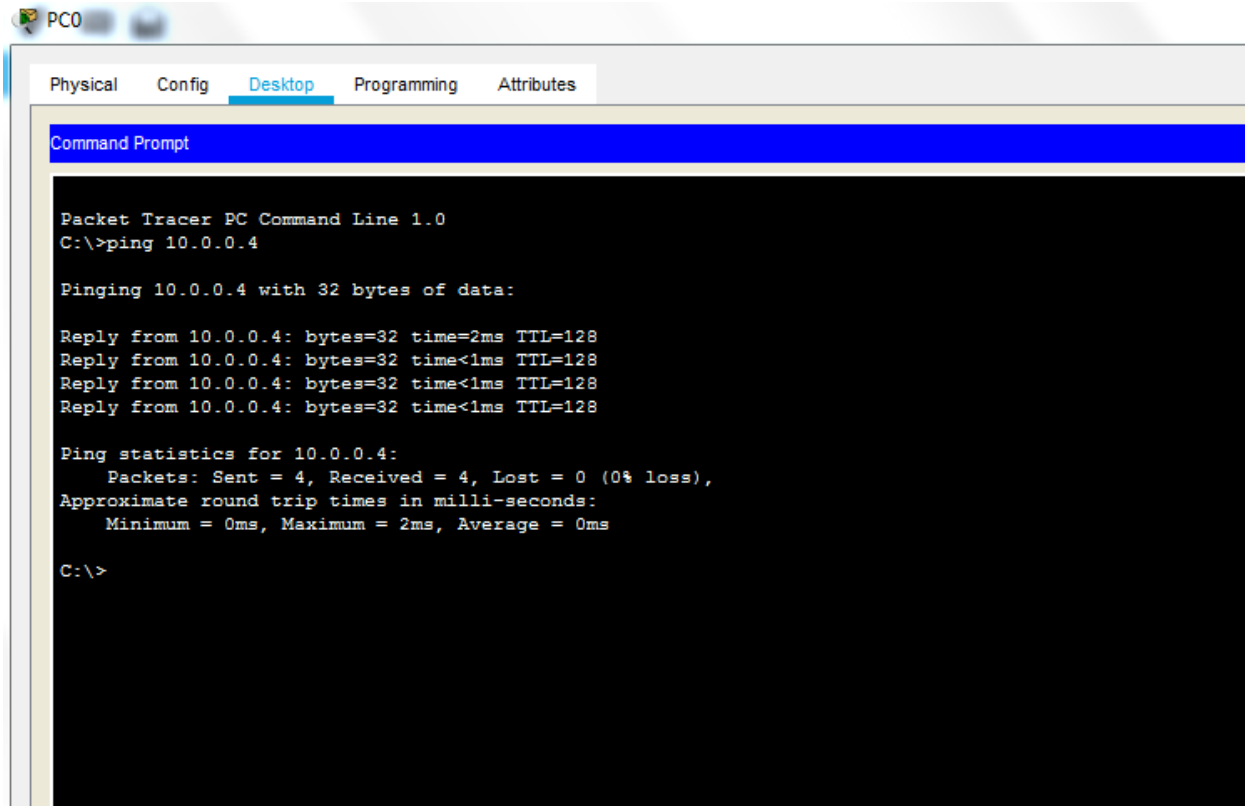
PC1 IP Address Dynamically Allocated:



Pinging PC1 from PC0: