**Experiment-8**

Aim: DHCP Server Configuration using Cisco Packet Tracer.

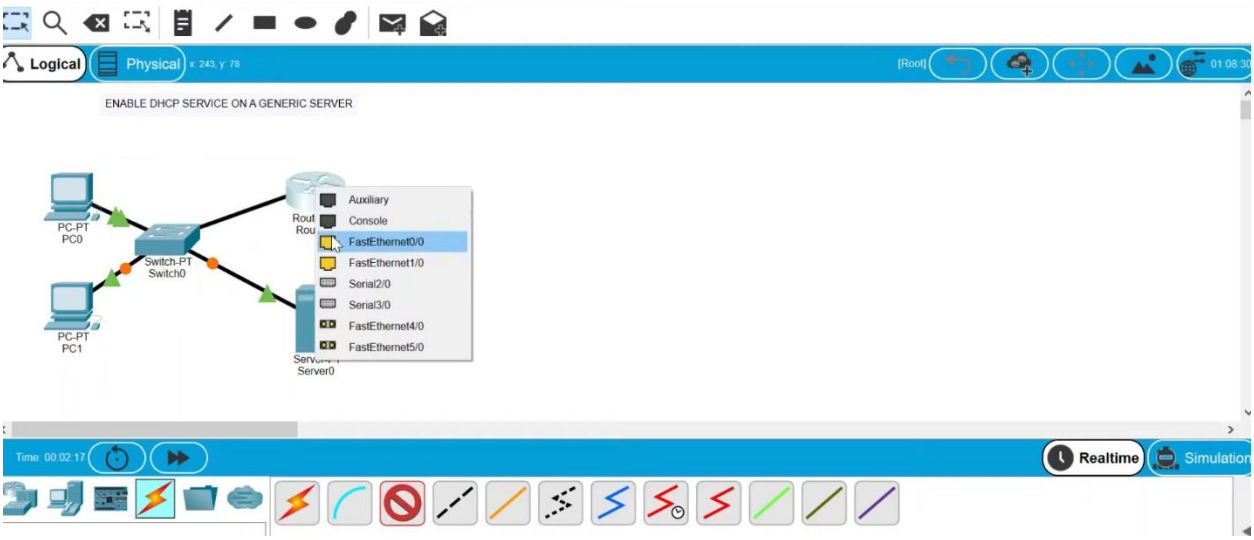
Objectives

1. Making network topology using a Server
2. DHCP service configuration
3. PC and Router settings.
4. Checking DHCP configuration.

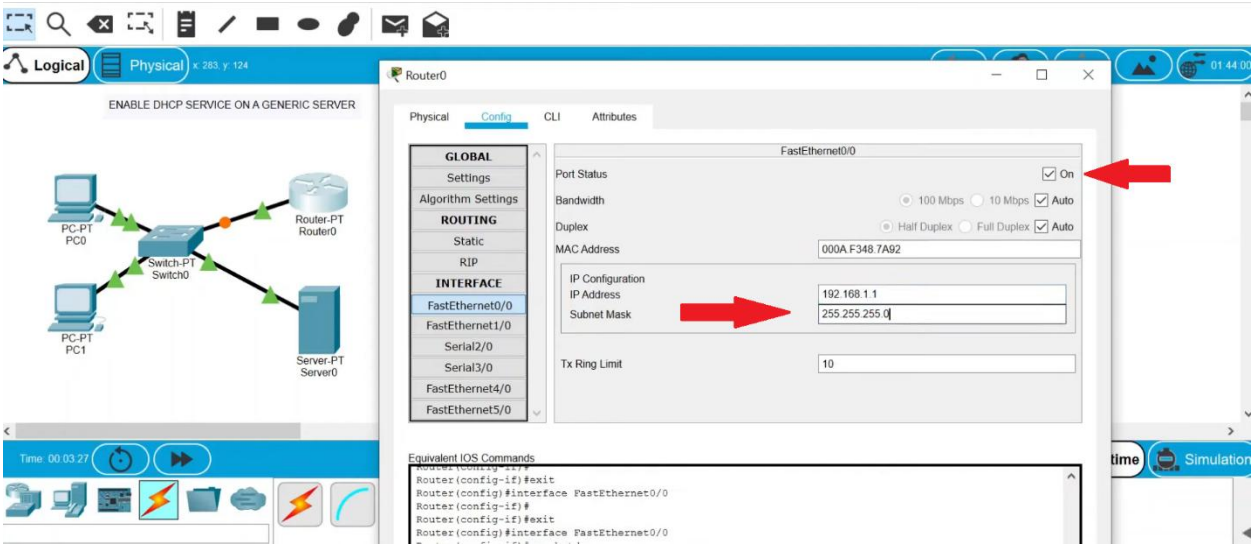
Background: Configure a DHCP server. Allow the PCs to automatically set DHCP IP address from the DHCP server connected with the PCs.

Topology and Intermediate Steps:

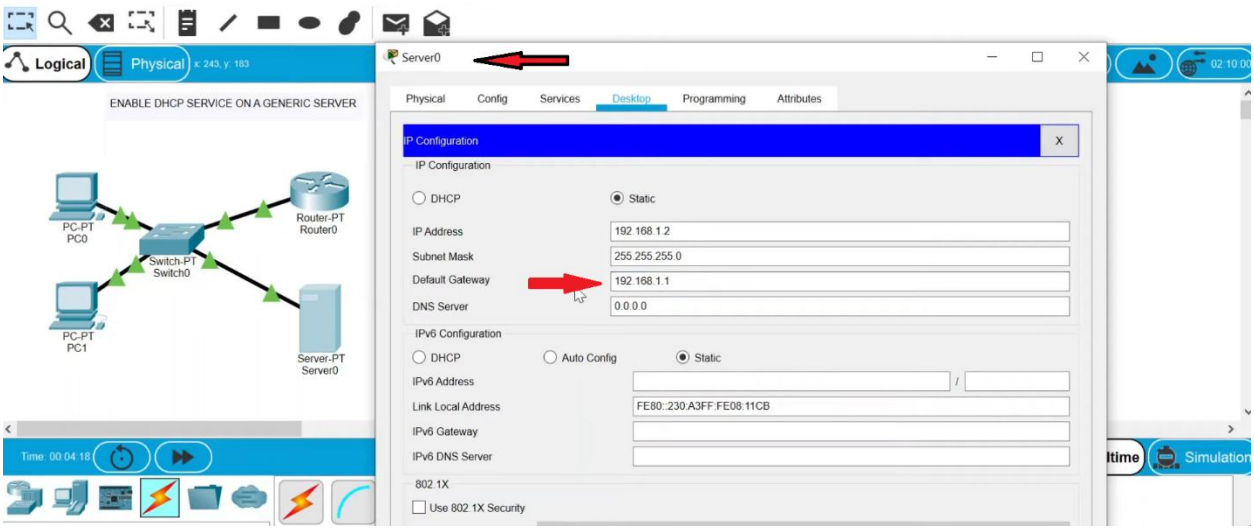
Topology and Wiring:

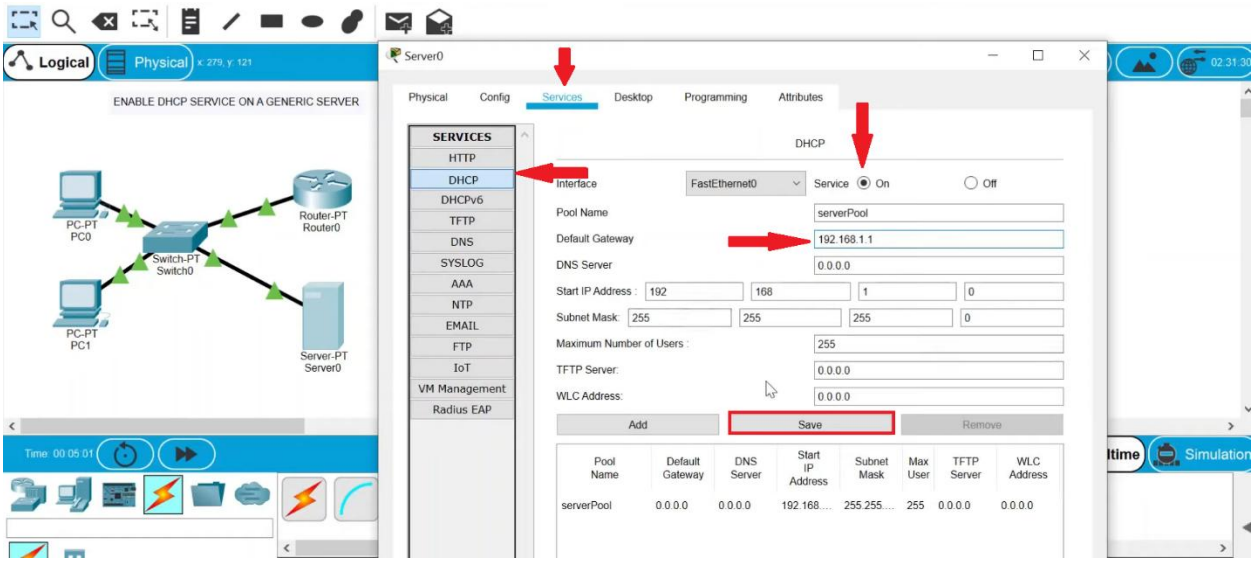


Router Configuration:

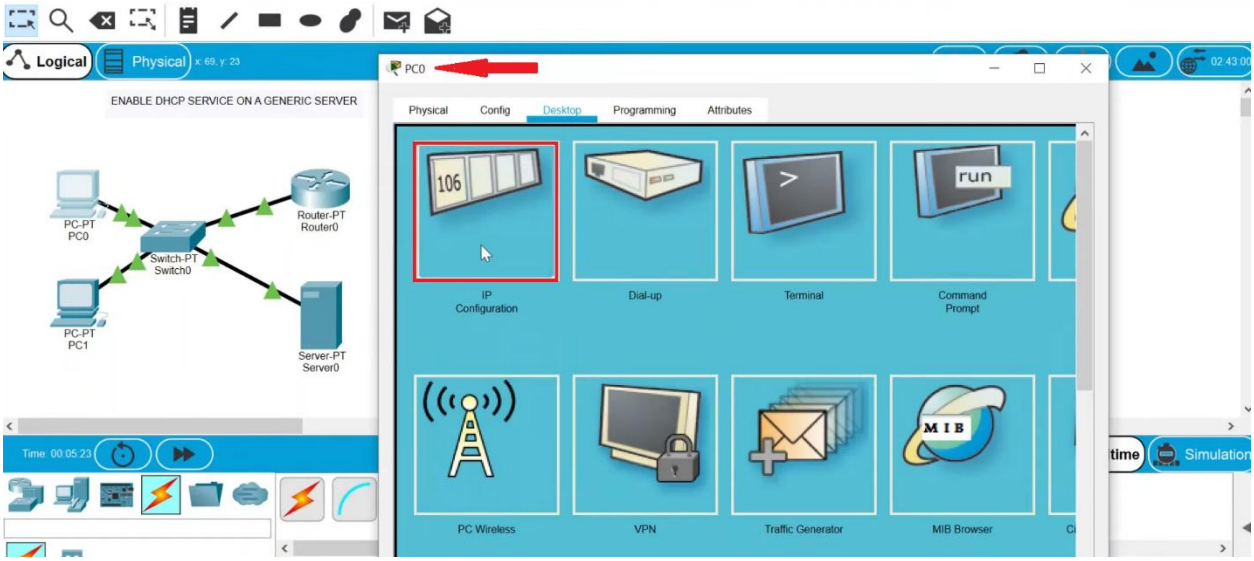


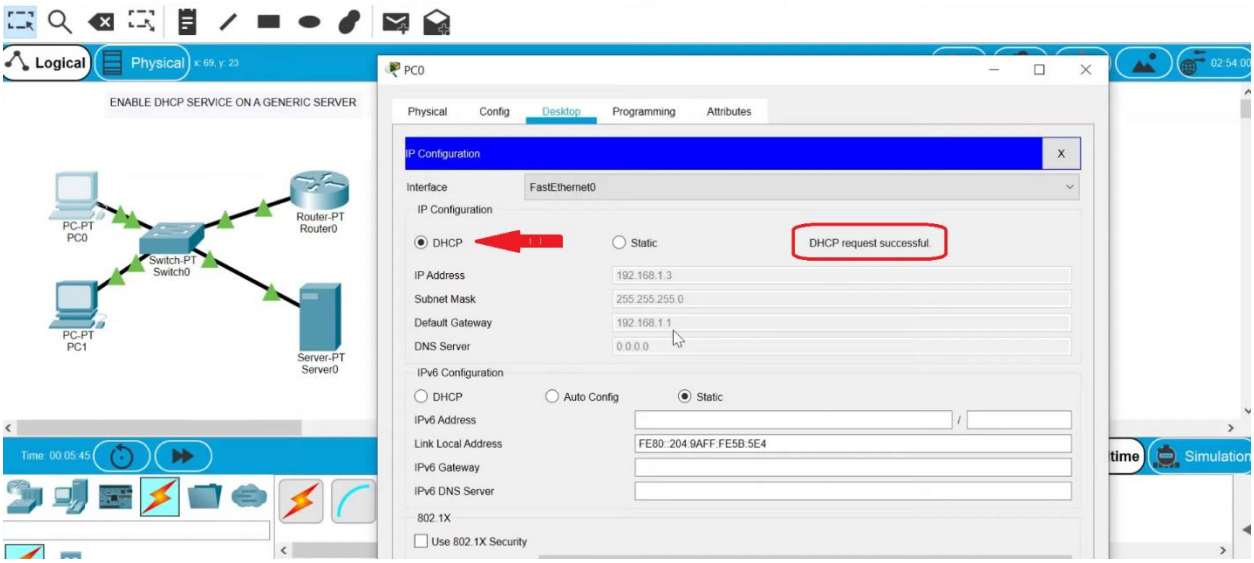

Server Configuration






PC Configuration:




Logical
Physical
ENABLE DHCP SERVICE ON A GENERIC SERVER
PC-PT PC0
Router-PT Router0
Switch-PT Switch0
PC-PT PC1
Server-PT Server0
Time: 00:05:45
PC0
Physical
Config
Desktop
Programming
Attributes
IP Configuration
Interface
FastEthernet0
IP Configuration
DHCP
Static
DHCP request successful.
IP Address
192.168.1.3
Subnet Mask
255.255.255.0
Default Gateway
192.168.1.1
DNS Server
0.0.0.0
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address
FE80::204:9AFF:FE5B:5E4
IPv6 Gateway
IPv6 DNS Server
802.1X
Use 802.1X Security
Simulation