Genba Sopanrao Moze College of Engineering, Balewadi, Pune-45

Department of Electronics And Telecommunication

Academic year 2022_23

Date: Staff Sign:

Experiment no:-8

AIM: Executing Telnet, DHCP Server using simulator

REQUIREMENT:

WINDOWS 10 with LAN Connectivity.

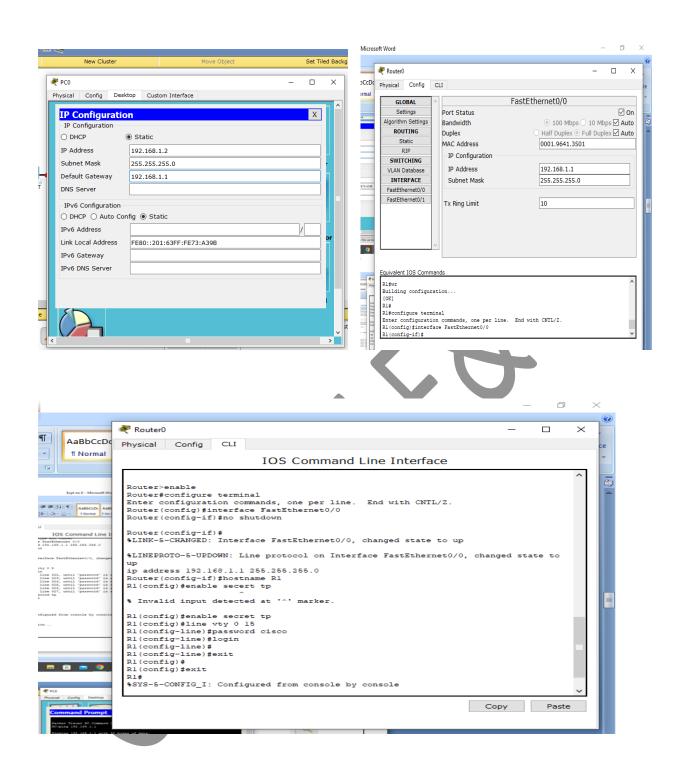
Software: Cisco Packet Tracer

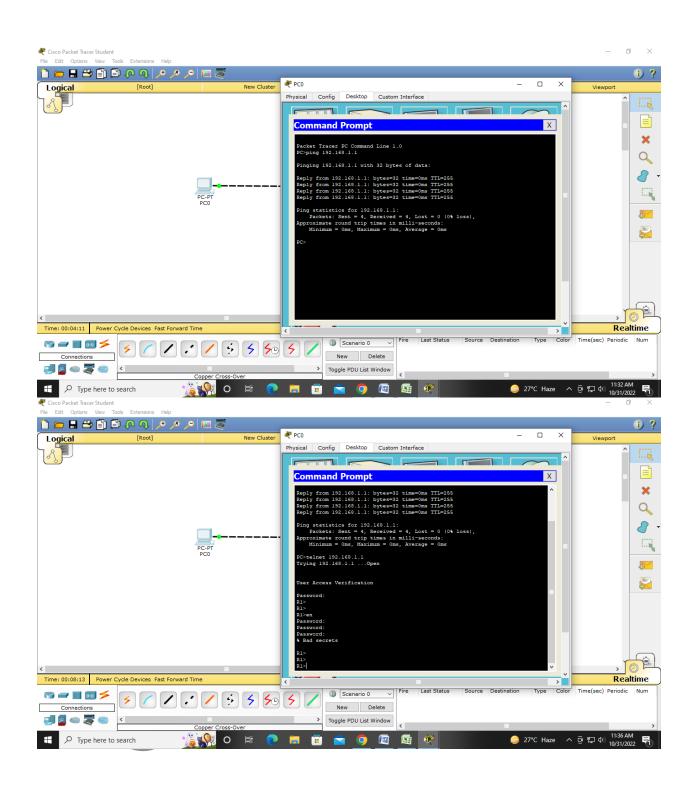
Theory:

TELNET:

- Telnet is a network protocol used on the Internet or local area networks to provide a bidirectional interactive text-oriented communication facility using a virtual terminal connection.
- TELNET stands for TELE communication NET work and it refers to both the application and protocols.
- TELNET offers the user a way of authenticating and accessing their terminals via the network.
- TELNET needs a TELNET server on the host computer which will be accessed.

- Windows operating system needs a Telnet server in order to be accessed remotely.
- The telnet protocol is TCP connection used for transmitting data containing telnet control information.
- The telnet protocol allows the user to identify himself on a remote system through the local system.
- This protocol establishes client-server relationship between the local system and remote Telnet application permitting the functioning of a local system as a virtual terminal connected to a virtual system.
- Most network equipment and operating systems with a TCP/IP stack support
 a Telnet service for remote configuration (including systems based on
 Windows NT).
- The term *telnet* may also refer to the software that implements the client part of the protocol. Telnet client applications are available for virtually all computer platforms.
- Telnet is a client-server protocol, based on a reliable connection-oriented transport. Typically this protocol is used to establish a connection to Transmission Control Protocol





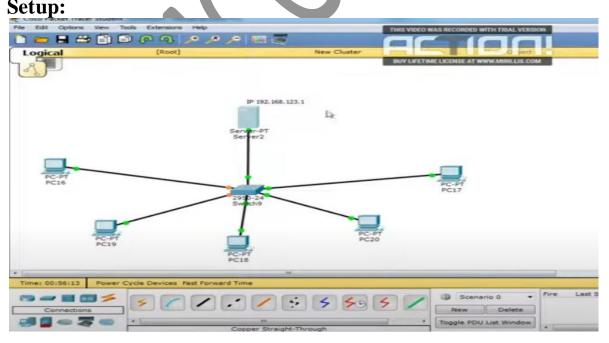
DHCP:

The DHCP is standardized network protocol use on internet protocol network for dynamically distributing network configuration parameters, such as IP addresses for interfaces and services. We DHCP computers request computers and networking parameters automatically from DHCP servers reducing the need for a network administrator or a user to configure these settings manually.

Procedure:

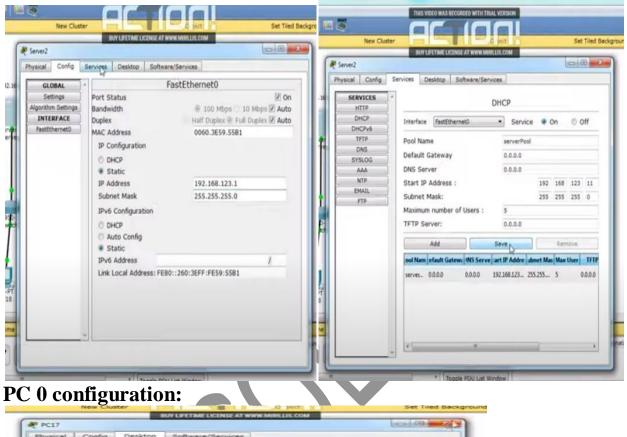
- a. Design network by using computer, Switch and server
- b. Then assign IP address for all PC
- c. Assign IP address server
- d. Click on server and config fastethernet0.In services>DHCP>On>Give Startup IP>Max. no. of users>Save.
- e. Click on PC0 Click on PC0 and then click on simulation button on the right hand corner of the screen
- f. click on PC0>Desktop>select DHCP>IP address will auto generate
- g. Check packet transmission

CONGIURATION USING PACKET TRACER:

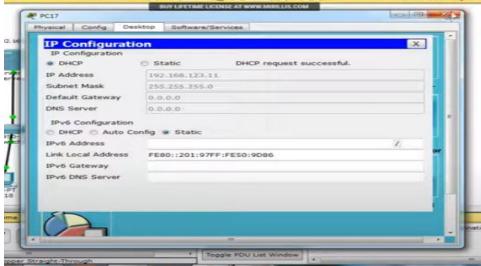


Result Printouts:

Server configuration:







Do this for all PC

