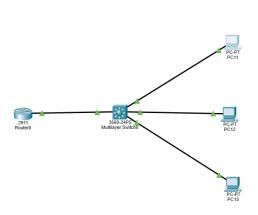
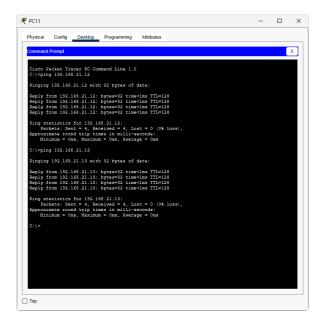
LAB SUBMMITED REMOTELY

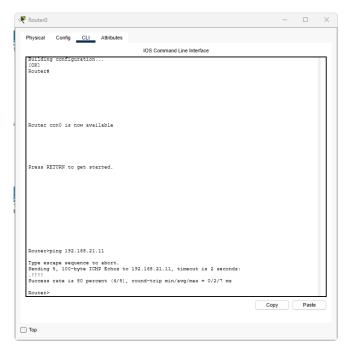
Logical View



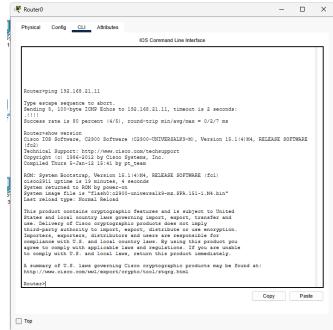
PC - PC ping

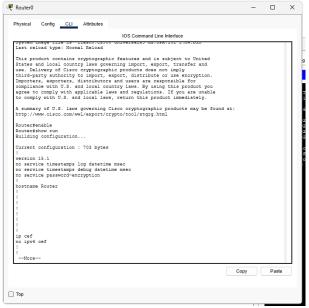


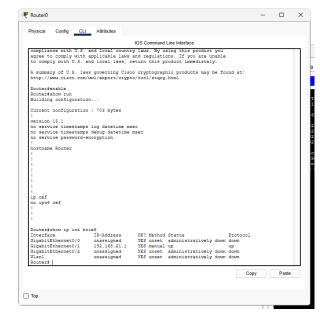
Router to Pc ping



Router Show Version







Router show run

Router Show IP int brief

LAB 3 Questions:

1) What Layer of the OSI Model does IP addressing take place?

Ip addressing takes place at Layer 3 (Network Layer)

2) What does DHCP stand for and how is DHCP different from static addressing?

DHCP stands for Dynamic Host Configuration Protocol. It automatically assigns IP addresses to devices on a network, while static addresses require manual configuration of IP addresses

3) What is the command to enter privileged mode on a CISCO router or switch?

The command is enabled

4) What command or set of commands did you use to configure the interfaces on the Router and Switch?

For the router:

interface GigabitEthernet0/1

ip address 192.168.21.1 255.255.255.0

no shutdown

For the switch:

interface range FastEthernet0/1-3

switchport mode access

5) Convert the subnet mask 255.255.255.0 to binary. a. How many hosts can be addressed in this subnet?

The subnet mask 255.255.255.0 in binary is 11111111111111111111111111100000000.

This subnet can address 254 hosts (since $2^8 - 2 = 254$).