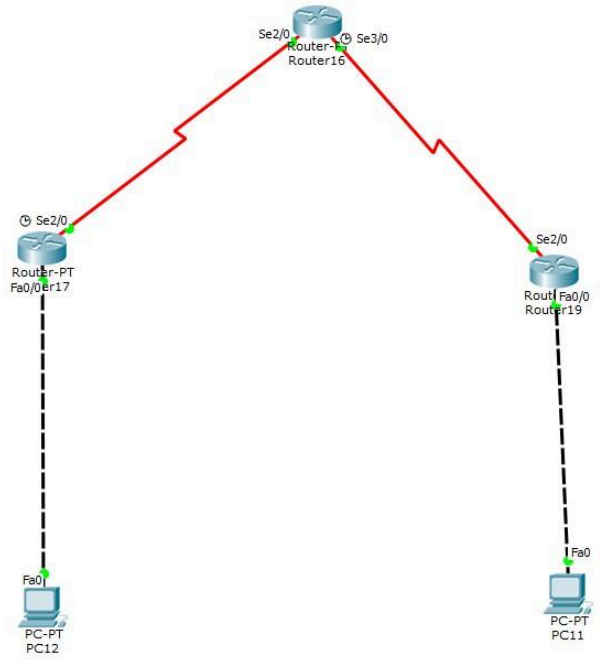
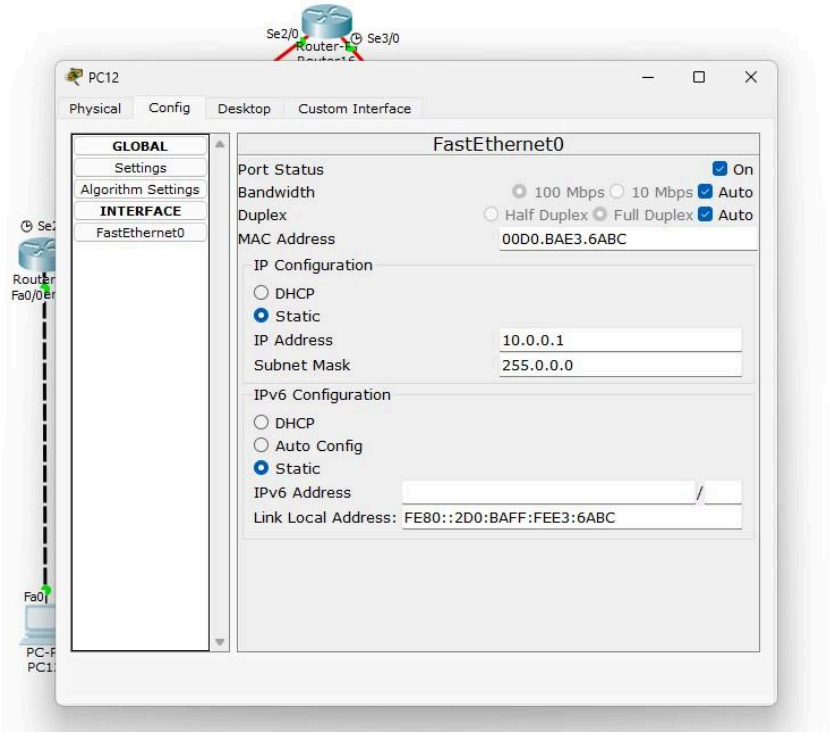
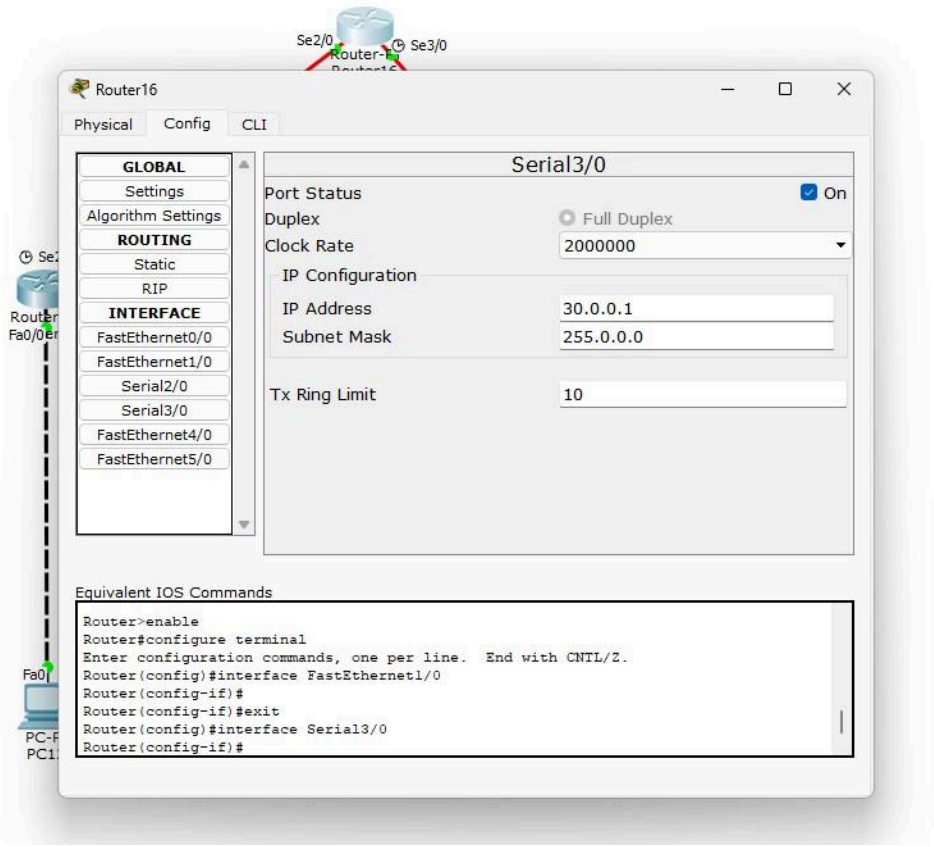
CN LAB OBSERVATION

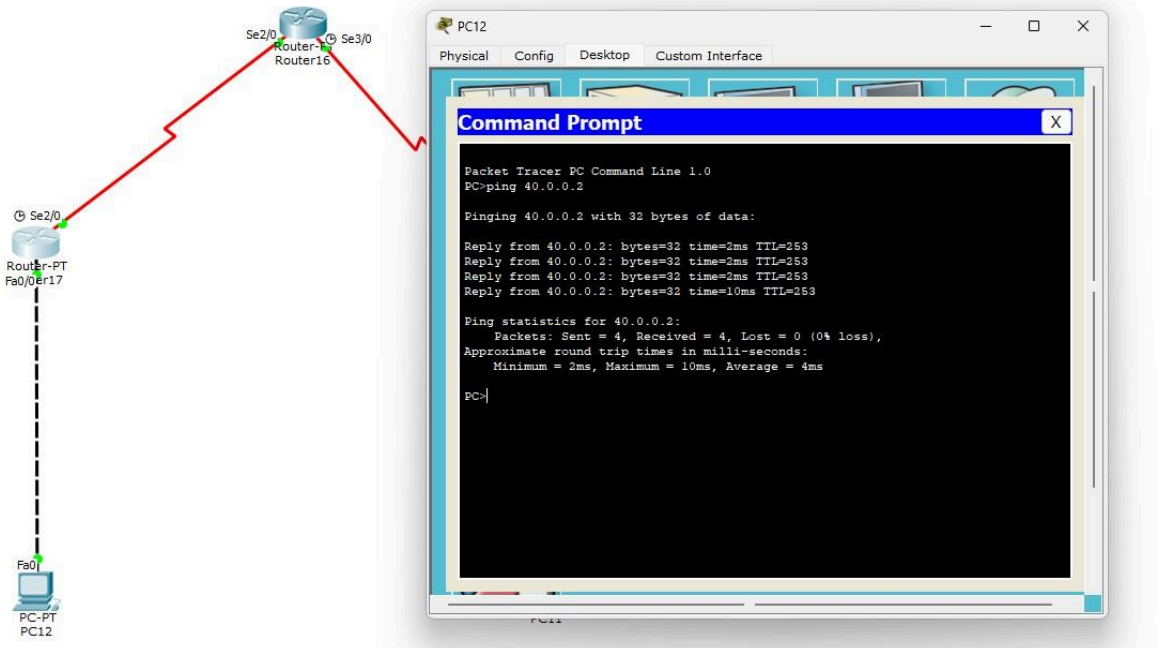
Mohith Jain 1BM22CS162

AIM : Configuration using default & static route



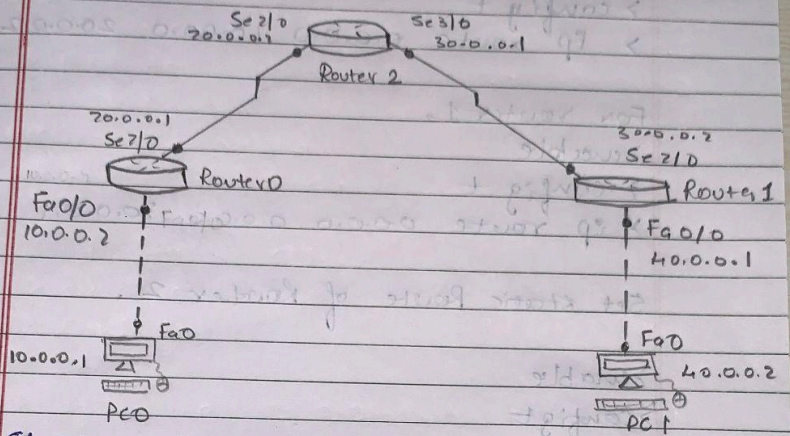



Se2/0
Se3/0
Router16
Physical
Config
CLI
GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
INTERFACE
FastEthernet0/0
FastEthernet1/0
Serial2/0
Serial3/0
FastEthernet4/0
FastEthernet5/0
Serial3/0
Port Status
On
Duplex
Full Duplex
Clock Rate
2000000
IP Configuration
IP Address
30.0.0.1
Subnet Mask
255.0.0.0
Tx Ring Limit
10
Equivalent IOS Commands
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet1/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial3/0
Router(config-if)#


Se2/0
Se3/0
Router16
Se2/0
Router-PT
Fa0/0
Fa0
PC-PT
PC12
PC12
Physical
Config
Desktop
Custom Interface
Command Prompt
X
Packet Tracer PC Command Line 1.0
PC>ping 40.0.0.2
Pinging 40.0.0.2 with 32 bytes of data:
Reply from 40.0.0.2: bytes=32 time=2ms TTL=253
Reply from 40.0.0.2: bytes=32 time=2ms TTL=253
Reply from 40.0.0.2: bytes=32 time=2ms TTL=253
Reply from 40.0.0.2: bytes=32 time=10ms TTL=253
Ping statistics for 40.0.0.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 2ms, Maximum = 10ms, Average = 4ms
PC>

Lab-04

AIM: To demonstrate the configuration of default route and static routes.



Steps:

Configure the PC0, PC1, Router0, Router 1 and Router 2.

* Set ip address of PC0 to 10.0.0.1 & gateway to 10.0.0.2. Similarly set ip address for PC1 to 40.0.0.2 & gateway to 40.0.0.1.
* Now using CLI configure router0 & router1.
  > enable
  > Config t
  > Interface fastethernet0/0
  > ip address 10.0.0.2 255.0.0.0
  > exit
  > interface Serial 2/0
  > ip address 20.0.0.1 255.0.0.0
  > exit.
* Similary configure router 1 & router 2

Set the default Route to Router 0 & Router 1

For router 0.
> enable
> config t
> ip route 0.0.0.0 0.0.0.0 20.0.0.2

For router 1,
> enable
> config t
> ip route 0.0.0.0 0.0.0.0 30.0.0.1

Set Static Route of Router 2.

> enable
> config t
> ip route 40.0.0.0 255.0.0.0 30.0.0.2
destination network address · destination subnet mask · next hop configuration
> ip route 10.0.0.0 255.0.0.0 20.0.0.1

Observation

* The default route & static route of router has been set & configured.
* Now the network is ready for communication
* When ping from PC0 to PC1

> ping 40.0.0.2

Pinging 40.0.0.2 with 32 bytes of data:
Reply from 40.0.0.2: bytes=32 time=18ms TTL=123
Reply from 40.0.0.2: bytes=32 time=4ms TTL=123

Packet sent = 4, Received = 4 Lost = 0 (0% Loss)