

Program 3

Aim: Configure default route, static route to the Router (Part 1).

Topology , Procedure and Observation:

16/10/24 (10)

Experiment - 3

1) Configure default route, static route to the Router.

The diagram illustrates a network topology with two routers, Router-PT Router0 and Router-PT Router1, connected via a serial DCE link. Router0 has interfaces 30.0.0.1 and 10.0.0.2. Router1 has interfaces 30.0.0.2 and 20.0.0.2. PC-PT PC0 is connected to Router0 with IP 10.0.0.1. PC-PT PC1 is connected to Router1 with IP 20.0.0.1.

Aim: Successful transmission of packets from one PC to other of different router.

Topology: Two PCs are connected to two different routers using copper cross over and those two routers are connected to each other using serial DCE.

Procedure:

1) After successful configuration of the two routers. Open CLI of one router and follow the command to configure static routing.

```
> ip route 20.0.0.0 255.0.0.0 30.0.0.2
```

Open the CLI of other router

```
> ip route 10.0.0.0 255.0.0.0 30.0.0.1
```

Observation:

After configuration of static routing two PCs of two different router ~~are~~ networks are able to transfer/
transmits the packet using the ping command.

> ping

Output:

> show ip route

Gateway of last resort is not set.

C 10.0.0.0/8 is directly connected, Fast Ethernet 0/0

S 20.0.0.0/8 ~~is~~ [1/0] via 30.0.0.2

C ~~30.0.0.0/8~~ is directly connected, serial 2/0.



Screen Shots:

