Bangladesh University of Business and Technology (BUBT)

Course Name: Computer Networks

Course Code: CSE 320

LAB 4

Experiment on: Static Router Configuration

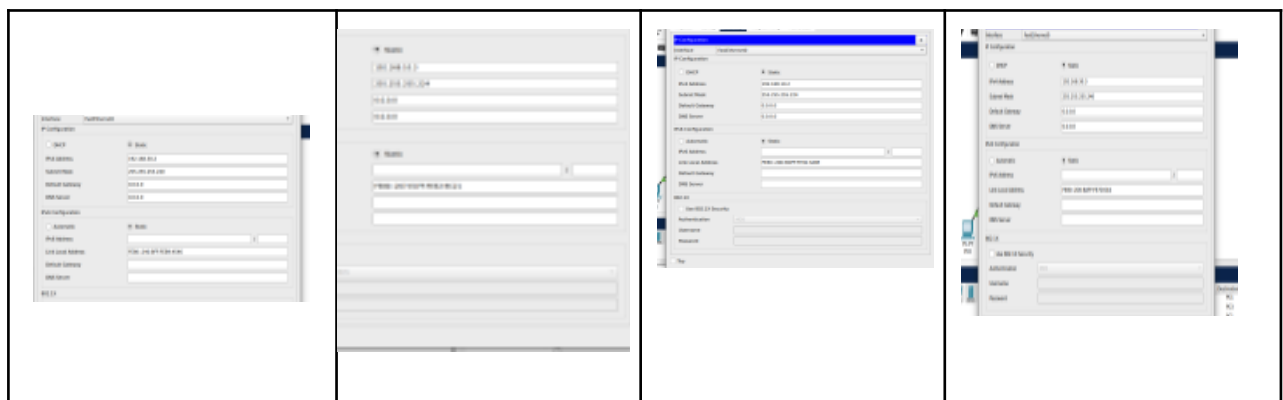| Submitted By	Submitted To
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Date: 08/27/2025

Objective

Set up routers using static routing so that hosts on separate networks can communicate with one another.

Equipment:

1. 2 Routers
2. 2 Switches
3. 4 PCs

IP Addressing:

Device	IP Address	Subnet Mask
Router0	192.168.10.1	255.255.255.0
Router0	10.0.0.1	255.255.255.252
Router1	192.168.20.1	255.255.255.0
Router1	10.0.0.2	255.255.255.252
PC0	192.168.30.2	255.255.255.240
PC1	192.168.30.3	255.255.255.240
PC2	192.168.10.3	255.255.255.224
PC3	192.168.10.2	255.255.255.224

Configure Static Routing:

Router 0	Router 1
| ```
> en
# config t
# interface g0/0
# ip address 192.168.10.1
255.255.255.0
# no shutdown
# interface s0/0/0
# ip address 10.0.0.1
255.255.255.252
# no shutdown
``` | ```
> en
# config t
# interface g0/0
# ip address 192.168.20.1
255.255.255.0
# no shutdown
# interface s0/0/0
# ip address 10.0.0.2
255.255.255.252
# no shutdown
# exit
``` |
| **Configure Static Routes** ||
| ```
# ip route 192.168.20.0
255.255.255.0 10.0.0.2
``` | ```
# ip route 192.168.10.0
255.255.255.0 10.0.0.1
``` |
| | |

Result:

The implementation of static routing was successful. Routes that were manually configured allowed hosts on various networks to connect.