

Exp. No: 11

Date:

Aim:

- a) Simulate the Static Routing configuration using Cisco Packet Tracer.
- b) Simulate RIP using Cisco Packet Tracer.

a) 1. Adding Static Routes: each router knows only the networks directly connected to it. add static route to reach a network not directly connected.
Eg. Router 0, networks 10.0.0.0/8, 20.0.0.0/8, 40.0.0.0/8 are directly connected, but 30.0.0.0/8

50.0.0.0/8
2) Creating Main & Backup Routes.
Administrative Distance decides preference of routes. the lower the AD, the higher the preference.

3) Router Configurations

Configure static routes on each router for networks not directly connected

4) Verifying Router:

verify routes by using Commanding show ip route static

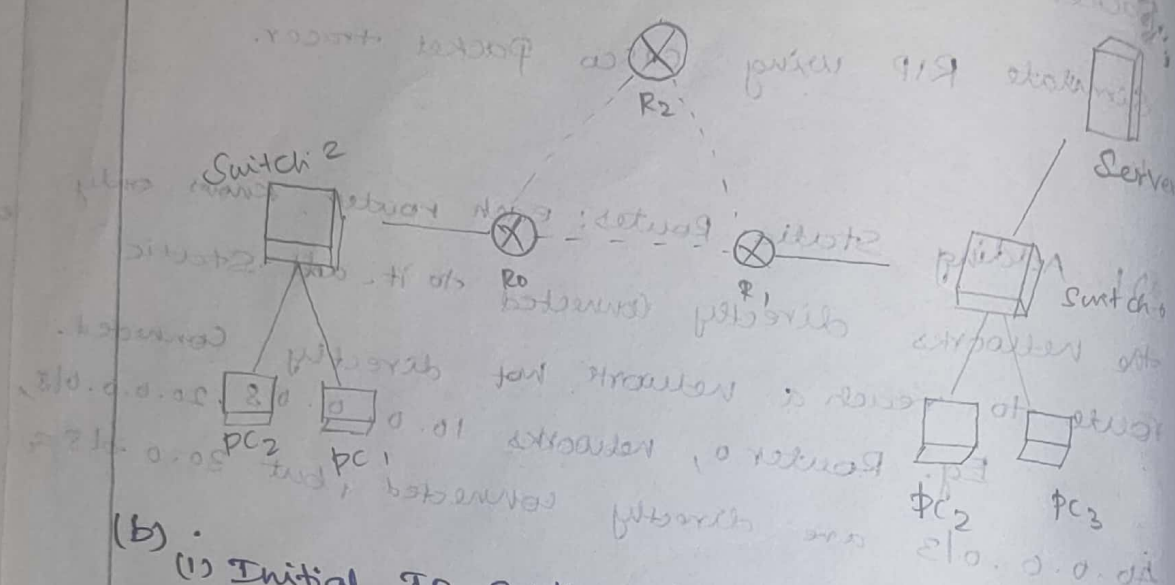
5) Testing Route Fail over:

→ Test connectivity using Tracert or Ping from a device on a connected network.

→ Disconnected or "break" the link on the main route.

b) Deleting a static Route.

show ip route static



(b).

(1) Initial IP Configuration for Devices.

(2) Assign IP Addresses to Devices for PCs and Router

(3) Enable & Configure Interfaces on Router

(4) Configure RIP on Routers.

5) Verify and Test Redundancy.

- use Ping Command on PC1.

- use traceroute to see RIP redirecting

traffic through an alternate route.

Output :

Thus the program is executed and verified successfully.