

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. 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 Router.

Administrative Distance decides performance of routes. The lower the AD, the higher the preference.

3) Router Configuration.

Configure static routes on each router for networks not directly connected.

4) Verifying Router:

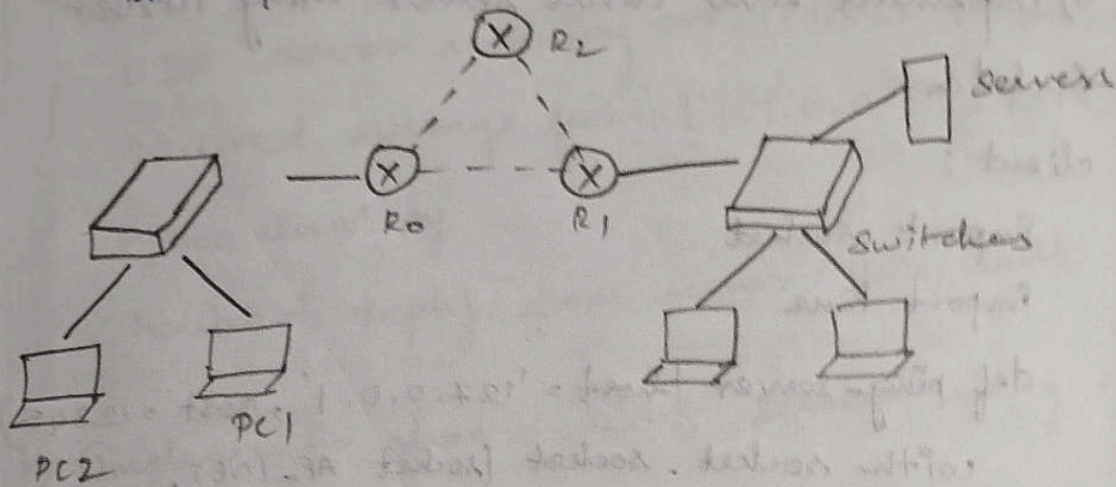
Verify routes by using commanding show ip route static.

5) Testing Route fail over:

→ Test connectivity using traceroute or Ping from a device in a connected network.

→ To connect 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 & router
(3) Enable configure interfaces on Router.
(4) Configure RIP on Routers.
(5) Verify and Test redundancy
- Use ping command on PC1
 - Use tracer to see, rip redirecting traffic through an alternate route.

Result:

19/11/24