Ex: 11
Date: 22/10/24

apsara
Date:

Practical - 11

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 30.0.0/8, 50.0.0.0/8

2) Creating Main & backup routes
Administrative distance decides preference of routes.

3) Router configuration:
configure static routes on each router for networks not directly connected.

4) Verifying router:
Verify routes by using command show ip route static.

5) Testing route fail over:
→ Test connectivity using tracert or ping from a device on a connected network.

→ Is connect or "break" the link on the main route.

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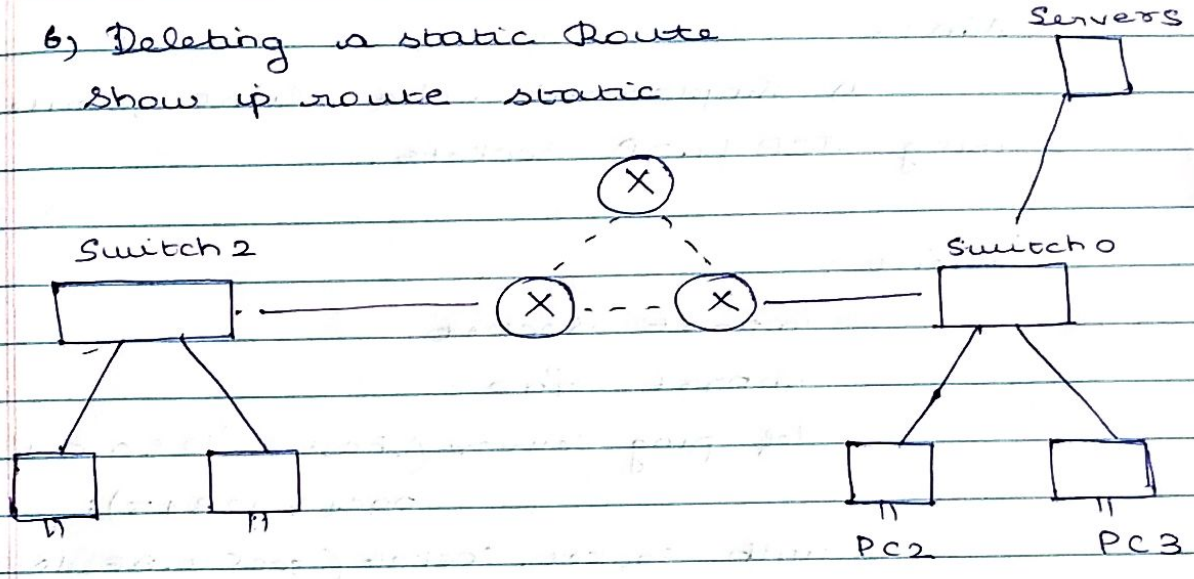
6) Deleting a static Route
Show ip route static



b) 1) Initial IP configuration for devices
2) Assign IP Address to devices for PC5 & router.
3) Enable configure interfaces on Router
4) Configure Rip on Routers
5) verify and Test redundancy.
- use ping command on PC1
- use tracert to see rip redirecting traffic through an alternate route.

Result:
Thus the program is successfully executed & the output is verified.