Exp. no: 11

Aim:

(a) Simulate Static Routing Configurations using cisco packet tracer

(b) Simulate RIP using cisco packet tracer

(a)

(i) Adding Static Routes: each other routers knows only the networks directly connected to it. add static route to reach a network not directly connected.

Eg: Router0, 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 are not directly connected

(ii) Creating main & backup routes:
Administrative Distance decides preferences of routes; the lower the AD, the high the preference

(iii) Router Configurations:
Configure static routes on each router per networks not directly connected.
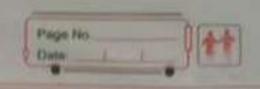
(iv) Verifying Routers:
Verify routes by using commands.
show ip route static.

(v) Testing route fail over:
Test connectivity user tracer or ping from a device on a connected network and to connect or break the link on the main route

(vi) Deleting a static route
Show ip route static

QB2

(i) Initial IP Configuration for devices
(ii) Assign IP Address to devices for PCs & router
(iii) Enable Configure interfaces on router
(iv) Configure RIP on routers
(v) Verify and test redundancy
  - use ping command on PC
  - use tracert to see rip redirecting traffic
    Through our alternate route.

Result:
    Thus the Configuration for Simulate Static routing
Using cisco and Simulate RIP using cisco has been
Successfully executed and output is verified

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