

Ex 1149
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static routing config using CISCO

Packet tracer.

Procedure:

To simulate open Cisco packet tracer & config CISCO
Packet tracer.

Procedure:

step - 1: open Cisco packet tracer & create a
new network topology using three routers
& connect them.

step - 2: Assign appropriate IP address to all
routers interface as per lab network table.

step - 3:

on router 0, access the CLI and enable
logging mode using enable in config terminal

step 4: Create static routes for network not
directly connected to router 0.

step 5: Similar, config 2 static routes for
host 30.0.0.100/32, setting route via router 2
main route ip 300.0.100.255.255.40.0.0.2.20.

step 6:

create two static routes for network 30.0.0.1,
config route router 2 as main route & vice versa

1 as backup route using

ip route 30.0.0.0 255.0.0.0 40.0.2.10

step 7: on router 1, config two static route
for network as main route w/o route 2 as backup

step 8: on router 2, create static route for 10.0.0.0/8
to 30.0.0/8 network using IP of router 0.2

route 1

step 9:

verify config using the command "show ip
route static" on each router.

step 10: to test connectivity, using tracert
command from R1 to one network to a host
in another network.

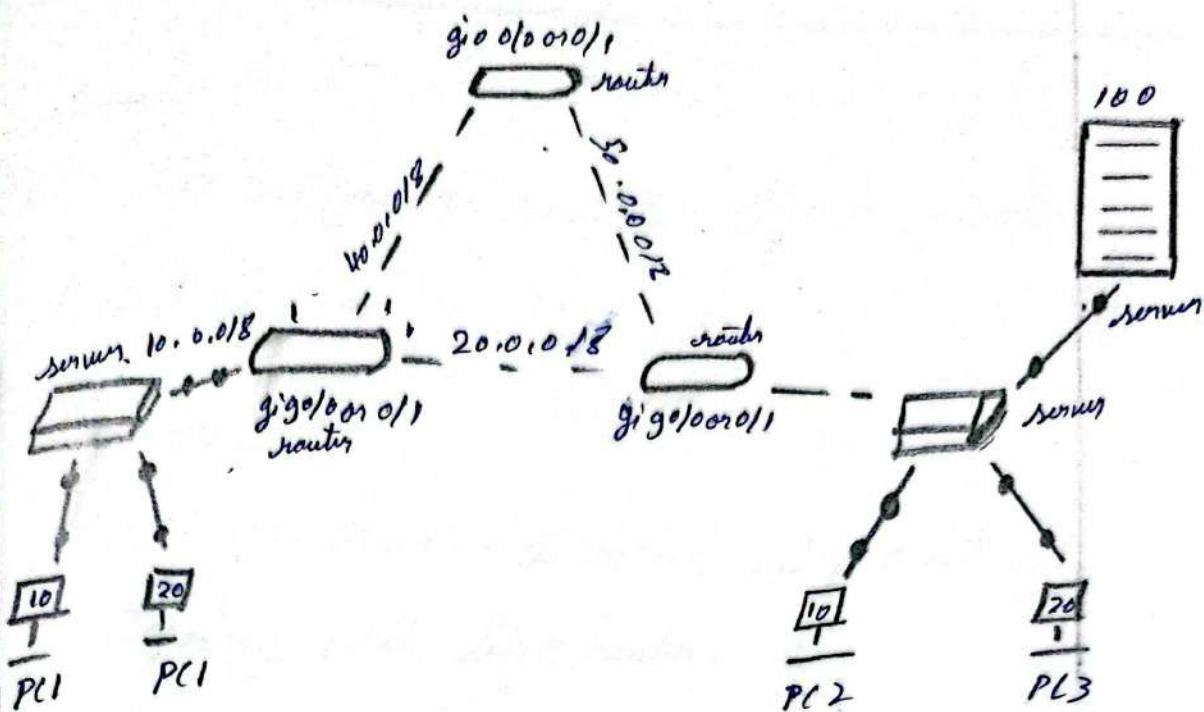
step 11: to failures, simulate link failure

or delete connection between routers

step 12:

to delete a static route, use command
"no ip route [network] [mask]" & verify change
using "show ip route static"

Diagram



Result!

✓ STA

static routing was successfully config in
uriby in cisco packet tracer

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Simulations of RIP using 11560 Packet traces

Aim:

To configure & simulate the RIP in Cisco Packet tracer.

Procedure:

Step 1: open cisco packet tracer & setup a network topology with three routers.

Step 2: Assign IP address to PC by selecting each PC \rightarrow desktop \rightarrow IP config & enter IP address as per lab table.

Step 3: on each router, assign IP address to all interfaces using (L), enter config mode with enable \rightarrow config terminal, then use command "Interface fast Ethernet 0/0."

Step 4: config the serial interface of routers with given IPs & ensure that P/E has clock rate 64000 bandwidth

Step 5:

repeat IP config for all routers according to their respective interface connection

step 6: Enable RIP protocol on router 0 by entering command "router rip" "network 10.0.0.0"

step 7: Enable RIP on router 1 using "router 4" "network 192.168.1.244"

step 8: Enable RIP on router 2 using "router rip" "network 192.168.1.252.

step 9: Once RIP enabled, automatically exchange route info for all directions network

step 10: Use traceroute command from PC0 to P11 to observe path taken by packet

step 11: Stimulate a link failure by removing cable between router 0 & router 2
Verify RIP automatically reroute the traffic through alternate path -

output

Packet tracer PC, ver 1.0

PC > IP config

fast Ethernet 0 connection

Link local IPv6 add.: FE80::2601:70FF

IP address . . . ! 20.0.0.2

Subnet mask : 255.0.0.0

Default gateway .. : 20.0.0.1

Result:

RIP routing protocol was successful config
and verified.

✓ 