9/10/25
a)

11 Routing of network layer using CISCO

Aim:- Simulate static Routing configuration using cisco packet tracer.

procedure

1) setting up a practice lab.

Create a packet tracer tab with initial Configuration

2) Creating, adding, Verifying static route.

Routers automatically learn these Connected networks. We only need to add routes for the network that are not available or the routers interfaces.

Router 0 requirements

Creat two routes for network 30.0.0.0/8 and Configure the first route as the main route and the second route

Router 1 requirement

Create two routes for network 10.0.0.0/8 and Configure first route as main route and second route as backup route.

Route 2 requirements

create static route for network 10.0.0.0/8 and network 30.0.0.0/8 and verify the router add both routes.

Verify static routing

1. By reading ping request
2. By testing the routing have criteria

b)

Aim

To stimulate RIP using cisco packet Tra

Assign IP address to pcs

Double click pcs and click desk
menu item and click Ip configuration.

Assign IP address to interface of routers

Double click Router 0 and click CL
and press enter key to access the command
prompt of Router.

Configure RIP routing protocol

Configuration of RIP protocol is mu
easier than you think. It requires only
two steps to configure the RIP routing.

Enable RIP routing protocol is
much easier than you think from global
Configuration mode

Tell RIP routing protocol which
networks you want to advertise.

Command Prompt

packet tracer PC command line 1.0

PC > ip configuration

fast Ethernet 0 connection : (default port)

Link local IPv6 Address ..... : FE80::260:70FF

IP Address 20.0.0.2

Subnet Mask 255.0.0.0

Default Gateway 20.0.0.1

PC > ping 10.0.0.2

pinging 10.0.0.2 with 32 bytes of data

Request timed out.

Result

Thus stimulating static routing configuration using cisco packet tracer has been executed successfully.