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Lab 4.

Configuring default route to the router:

Router 0

Router (config)# ip route 0.0.0.0 0.0.0.0 20.0.0.2

Steps:

1. Connect 4 PCs, 2 switches & 3 routers using Cu straight.
2. Configure the PCs
3. Configure routers RO, R1, R2.
4. Assign static ip route for R1 and default route to the routers RO and R2.

Outcomes:

* Each router knows only about its immediate neighbouring signals.
* R1 is assigned static ip route to 10.0.0.0 and 40.0.0.0
* RO and R2 was made to set any signal go through them to the destination signal.
* Simulation of sending a simple PDU from source to destination shows the route taken by the ICMP packet.
* Pinging gives destination host unreachable if the device networks are not directly connected.
* Configuring default ip route to a router ensures that the packet passes through the default route when no other router is available for IP destination address.