

Q

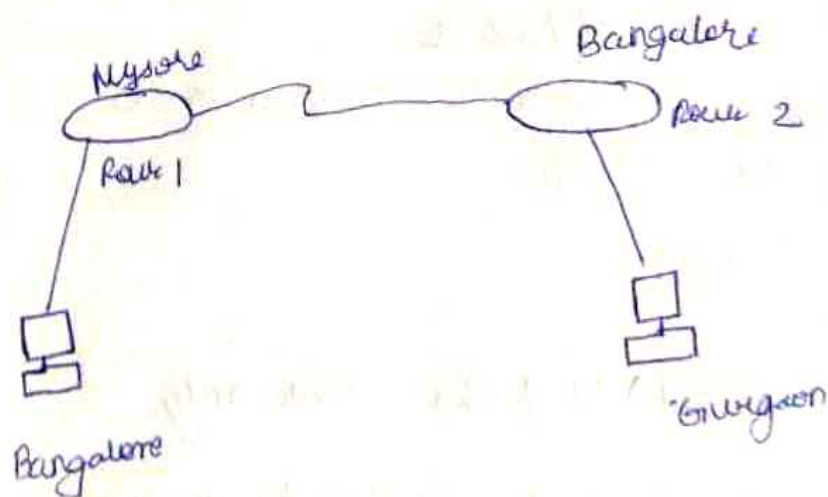
You have 4 sub offices of Infosys located at Bangalore, Mumbai, Mysore and Gurgaon where you want the end system & the end sys: gurgaon and Bangalore. only router exists at the Mumbai and Mysore to connect the Gurgaon and Bangalore. Use suitable dynamic protocol which uses the hop count as its metric for routing the data.

Ans

Then there are 4 sub office that are located at Bangalore, Mumbai, Mysore and Gurgaon only. So, then end system are at the Bangalore and Gurgaon and the router at the Mumbai and Mysore.

The protocol used is rip protocol.

Topology



So, then do config the desktop 1.

Steps are  
 → go to the desktop icon we click on it and go to config terminal and then click on fast ethernet  
 and go to the set the ip address as 10.0.0.10  
 and gateway at the setting as 10.0.0.1

Nitesh

Follow the same steps for the desktop & also at gu r goon  
only So, then for our gateway as 40.0.0.1 and IP  
address at the 40.0.0.10

For setting the Router only.

go to CLI

→ ~~conf~~ type enable

→ type config terminal.

→ ip address 20.0.0.1 255.0.0.0

→ encapsulation ppp

clock rate 64000

no shutdown

exit

For the same for Router 2

For S0/2/0 of Router 2

intf s0/2/0 20.0.0.2 255.0.0.0

encapsulation ppp

no shutdown

exit

Before this default setup the router only.

Router Information Protocol: In this the protocol is a protocol

that routers can use to exchange network topology information

is characterized as a interior gateway protocol

is typically used in small and medium sized

For the RIP protocol to work hence we use then  
the for example route 0 which is connected with 10.0.0.0  
and 20.0.0.0

→ (config-if) route rip

(config <sup>route</sup> ~~network~~) ~~network~~ 10.0.0.0

(config <sup>route</sup> ~~network~~) network 20.0.0.0

(config route) exit

For other route fire follow the same steps