

Experiment 7.

RIP - Routing Information Protocol

We use RIP to config routers. It is a distance vector routing protocol. It knows only neighbour. It doesn't know entire topology routing.

It doesn't support classless network (CIDR) but RIP version 2 supports CIDR & VLSM. It will update routing information every 30's. It sends routing table to neighbour.

PPP - Point to Point Protocol for serial connections encapsulation. PPP for serial interfaces only, clock rate only for clock interfaces.

To configure RIP protocol

click on router 1 → enable → config terminal router rip
network 10.0.0.0
network 20.0.0.0
exit

For router 2

same commands except
network 20.0.0.0
30.0.0.0

→ RIP is configured in all the routers

For router 3

network 30.0.0.0
network 40.0.0.0

To check if router is collecting routing info command :-
show ip route

to config PC,

Fast Ethernet 0 - 1. gateway → 10.0.0.1
IP → 10.0.0.10

2. gateway → 40.0.0.1
IP → 40.0.0.10.