RIP_V1-default

By default version 1 is enabled not specify configure

Other Network Like Delhi

Other Network Like Nagpur

192.10.5.1   192.10.5.2
192.10.5 /24

192.10.3.2 Router1   Router2 192.10.4.1

Router(config)#router rip
Router(config-router)#network 192.10.3.0
Router(config-router)#network 192.10.5.0
Router(config-router)#exit

Router(config)#router rip
Router(config-router)#network 192.10.5.0
Router(config-router)#network 192.10.4.0
Router(config-router)#exit

192.10.3.0/24   192.10.4.0/24

192.10.3.1

192.10.1.0   Mumbai tam A   Pune Team B   192.10.2.0

192.10.1.5   Router0   Router3 192.10.2.5

Router(config)#router rip
Router(config-router)#network 192.10.1.0
Router(config-router)#network 192.10.3.0
Router(config-router)#exit

Router#show ip route rip
R   192.10.2.0/24 [120/3] via 192.10.3.2, 00:00:18, FastEthernet0/1
R   192.10.4.0/24 [120/2] via 192.10.3.2, 00:00:18, FastEthernet0/1
R   192.10.5.0/24 [120/1] via 192.10.3.2, 00:00:18, FastEthernet0/1

Router#

Router(config)#router rip
Router(config-router)#network 192.10.4.0
Router(config-router)#network 192.10.2.0
Router(config-router)#exit

RIP Version 1 Network Topology and Configuration

1. Network Topology Overview

❖ Mumbai Team A (192.10.1.0/24):
  - Devices: PCs, Printer, and Laptop.
  - Switch: 2960-24TT.
  - IP Address Scheme:
    • PCs: 192.10.1.10, 192.10.1.20, 192.10.1.30, 192.10.1.40
    • Printer: 192.10.1.60
    • Laptop: 192.10.1.50
  - Router0: Connected to network 192.10.1.0/24 and other networks using RIP.

❖ Pune Team B (192.10.2.0/24):
  - Devices: PCs, Printer, and Laptop.
  - Switch: 2960-24TT.
  - IP Address Scheme:
    • PCs: 192.10.2.10, 192.10.2.20, 192.10.2.30, 192.10.2.40
    • Printer: 192.10.2.60
    • Laptop: 192.10.2.50
  - Router3: Connected to network 192.10.2.0/24 and other networks using RIP.

2. RIP Configuration on Routers

❖ **Router0: Commands used:**

```
Router(config)#router rip
Router(config-router)#version 2
Router(config-router)#network 192.10.1.0
Router(config-router)#network 192.10.3.0
Router(config-router)#exit
Router(config)# do show ip route rip
```
Networks included in RIP: 192.10.1.0/24 and 192.10.3.0/24.

❖ **Router1: Commands used:**

```
Router(config)#router rip
Router(config-router)#version 2
Router(config-router)#network 192.10.3.0
Router(config-router)#network 192.10.5.0
Router(config-router)#exit
```
Networks included in RIP: 192.10.3.0/24 and 192.10.5.0/24.

❖ **Router2: Commands used:**

```
Router(config)#router rip
Router(config-router)#version 2
Router(config-router)#network 192.10.5.0
Router(config-router)#network 192.10.4.0
Router(config-router)#exit
```
Networks included in RIP: 192.10.5.0/24 and 192.10.4.0/24.

❖ **Router3: Commands used:**

```
Router(config)#router rip
Router(config-router)#version 2
Router(config-router)#network 192.10.4.0
Router(config-router)#network 192.10.2.0
Router(config-router)#exit
```
Networks included in RIP: 192.10.4.0/24 and 192.10.2.0/24.

3. RIP Version 2 Information

RIP Version 2 provides additional features compared to Version 1, such as subnet mask awareness and authentication.
Router(config-router)#version 2

4. External Network Connections

Cloud Networks:
- "Other Network Like Delhi" and "Other Network Like Nagpur" represent external networks possibly connected to Routers 1 and 2 respectively, but these are not detailed in the current topology.

5. Summary of Subnetting

Subnetting Information:
- 192.10.1.0/24: Assigned to Mumbai Team A.
- 192.10.2.0/24: Assigned to Pune Team B.
- 192.10.3.0/24: Link between Router0 and Router1.
- 192.10.4.0/24: Link between Router1 and Router2.
- 192.10.5.0/24: Link between Router2 and Router3.