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RIP Routing Configuration using Three Routers in Cisco Packet Tracer

RIP Routing Configuration using Three Routers in Cisco Packet Tracer.Just to show you how to configure RIP Routing in few easy steps I have written this article. For RIP Routing Demonstration I have used Cisco Packet Tracer Software. The number of Routers used for this RIP routing Lab are three.I have shown RIPv2 configuration using cisco packet tracer.And I have also shown how to check which routing protocol is configured on a Router if you are new to The Company.

Total Number of Networks is Four:

- First Network is 192.168.0.0
- Second network is 192.168.1.0
- Third Network is 192.168.2.0
- Fourth Network is 192.168.3.0
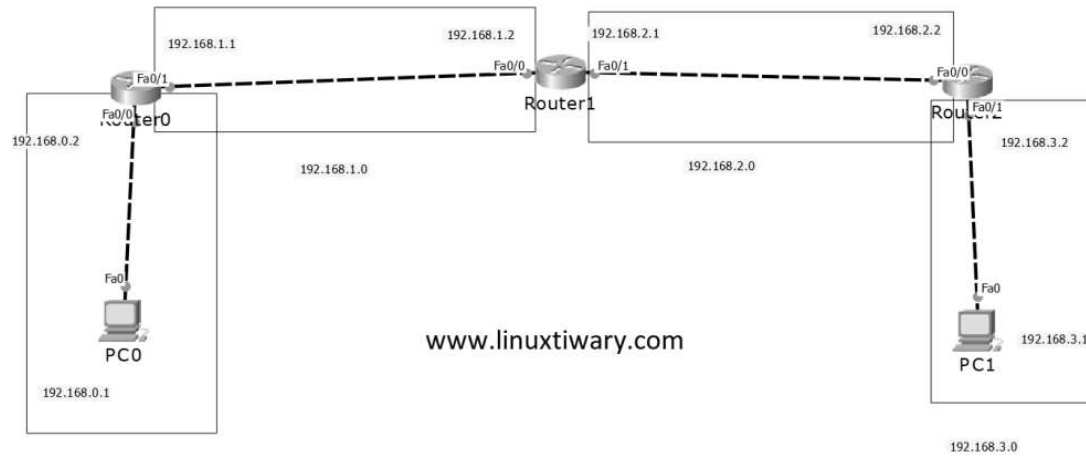
Step 1: Assign IP Address on Router0:

```
Router>enable

Router#config t

Router(config)#host R0

R0(config)#int fa0/0

R0(config-if)#ip add 192.168.0.2 255.255.255.0

R0(config-if)#no shut

R0(config-if)#exit
R0(config)#
R0(config)#int fa0/1
R0(config-if)#ip add 192.168.1.1 255.255.255.0
R0(config-if)#no shut
```

Step 2: Assign IP Address on Router1:

```
Router(config)#host R1

R1(config)#int fa0/0

R1(config-if)#ip add 192.168.1.2 255.255.255.0

R1(config-if)#no shut

R1(config-if)#exit

R1(config)#int fa0/1

R1(config-if)#ip add 192.168.2.1 255.255.255.0

R1(config-if)#no shut
```

Step 3: Assign IP Address on Router2:

```
Router>enable

Router#config t

Router(config)#host R2

R2(config)#int fa0/0

R2(config-if)#ip add 192.168.2.2 255.255.255.0

R2(config-if)#no shut

R2(config-if)#exit
R2(config)#int fa0/1
R2(config-if)#ip add 192.168.3.2 255.255.255.0
R2(config-if)#no shut
```

Step 4: Configure RIP routing on Router R0:

```
R0(config)#router rip

R0(config-router)#version 2

R0(config-router)#network 192.168.0.0

R0(config-router)#network 192.168.1.0
```

Step 5: Configure RIP routing on Router R1:

```
R1(config)#router rip

R1(config-router)#version 2

R1(config-router)#network 192.168.1.0

R1(config-router)#network 192.168.2.0
```

Step 6: Configure RIP routing on Router R2:

```
R2(config)#router rip

R2(config-router)#version 2

R2(config-router)#network 192.168.2.0

R2(config-router)#network 192.168.3.0
```

Cross Verify RIP route Configuration on Router R0 using show ip route command:

R0#show ip route

Codes: C – connected, S – static, I – IGRP, R – RIP, M – mobile, B – BGP

D – EIGRP, EX – EIGRP external, O – OSPF, IA – OSPF inter area

N1 – OSPF NSSA external type 1, N2 – OSPF NSSA external type 2

E1 – OSPF external type 1, E2 – OSPF external type 2, E – EGP

i – IS-IS, L1 – IS-IS level-1, L2 – IS-IS level-2, ia – IS-IS inter area

* – candidate default, U – per-user static route, o – ODR

P – periodic downloaded static route

Gateway of last resort is not set

C 192.168.0.0/24 is directly connected, FastEthernet0/0

C 192.168.1.0/24 is directly connected, FastEthernet0/1

R 192.168.2.0/24 [120/1] via 192.168.1.2, 00:00:18, FastEthernet0/1

R 192.168.3.0/24 [120/2] via 192.168.1.2, 00:00:18, FastEthernet0/1

Cross Verify Routing Protocol on Router R1 using Show ip

protocols command:

R1#show ip protocols

Routing Protocol is "rip"

Sending updates every 30 seconds, next due in 0 seconds

Invalid after 180 seconds, hold down 180, flushed after 240

Outgoing update filter list for all interfaces is not set

Incoming update filter list for all interfaces is not set

Redistributing: rip

Default version control: send version 2, receive 2

Interface Send Recv Triggered RIP Key-chain

FastEthernet0/0 2 2

FastEthernet0/1 2 2

Automatic network summarization is in effect

Maximum path: 4

Routing for Networks:

192.168.1.0

192.168.2.0

Passive Interface(s):

Routing Information Sources:

Gateway Distance Last Update

192.168.1.1 120 00:00:10

192.168.2.2 120 00:00:05

Distance: (default is 120)

R1#

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