



STEP 1: Diagram বানানো (Packet Tracer)

Devices লাগবে:

- 3টা Router (2811)
- 3টা Switch (2960)
- 3টা PC

Then router a extra slot connect korbo. WIC-1T module.

R1 e 1ta, R2 te 2ta, R3 te ekta

Then sbr moddhe connection dibo. 1st aa all pc to switch, then all switch to router, then router to router.

Router to router serial DEC dia connect korbo just r baki gula automatic.



STEP 2: IP Addressing Plan

Network	Use
192.168.1.0/24	R1 LAN
192.168.2.0/24	R1-R2
192.168.3.0/24	R2 LAN
192.168.4.0/24	R2-R3
192.168.5.0/24	R3 LAN

note seclct kore ei ip plan gula bosabo switch er upor and router to router connection er maj borabor

router er upor dibo 192.168.1.1, 192.168.3.1 ei typer gula



STEP 4: PC Configuration

PC	IP	Mask	Gateway	
PC1	192.168.1.2	255.255.255.0	192.168.1.1	
PC2	192.168.3.2	255.255.255.0	192.168.3.1	
PC3	192.168.5.2	255.255.255.0	192.168.5.1	

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Protita pc er pase tar ip gula likhbo agge.

Then click pc1->desktop->ip configuration ->set ipv4 and gateway. Same for pc2 and 3

STEP 3: Router Configuration

◆ R1 Configuration

nginx

 Copy code

```
enable
configure terminal
hostname R1

interface fa0/0
ip address 192.168.1.1 255.255.255.0
no shutdown

interface s0/0/0
ip address 192.168.2.1 255.255.255.0
clock rate 64000
no shutdown
exit
```

◆ R2 Configuration

nginx

 Copy code

```
enable
configure terminal
hostname R2

interface fa0/0
ip address 192.168.3.1 255.255.255.0
no shutdown

interface s0/0/0
ip address 192.168.2.2 255.255.255.0
no shutdown

interface s0/0/1
ip address 192.168.4.1 255.255.255.0
clock rate 64000
no shutdown
exit
```

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◆ R3 Configuration

nginix

Copy code

```
enable
configure terminal
hostname R3

interface fa0/0
ip address 192.168.5.1 255.255.255.0
no shutdown

interface s0/0/1
ip address 192.168.4.2 255.255.255.0
no shutdown
exit
```

ekhon same network a message pass hoy kina dekhbo.

click pc1->commad prompt run->ping 192.168.1.1

reply asle thik ase. Then outside network dekhbo: ping 192.168.5.1

destination unreachable asle bujbo route thik kora baki.

🔥 STEP 5: Configure Dynamic Routing (RIP v2)

◆ R1

nginix

Copy code

```
router rip
version 2
no auto-summary
network 192.168.1.0
network 192.168.2.0
exit
```

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◆ R2

nginx

 Copy code

```
router rip
version 2
no auto-summary
network 192.168.2.0
network 192.168.3.0
network 192.168.4.0
exit
```

◆ R3

nginx

 Copy code

```
router rip
version 2
no auto-summary
network 192.168.4.0
network 192.168.5.0
exit
```

ekhon another network er message sent korte parbo

STEP 7: Ping Test

PC1 থেকে:

nginx

 Copy code

```
ping 192.168.5.2
```

PC3 থেকে:

nginx

 Copy code

```
ping 192.168.1.2
```

Reply আসলে Network Done 

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