



# Routing and switching (TI40122)

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# Pengertian Border Gateway Protocol (lanjutan)



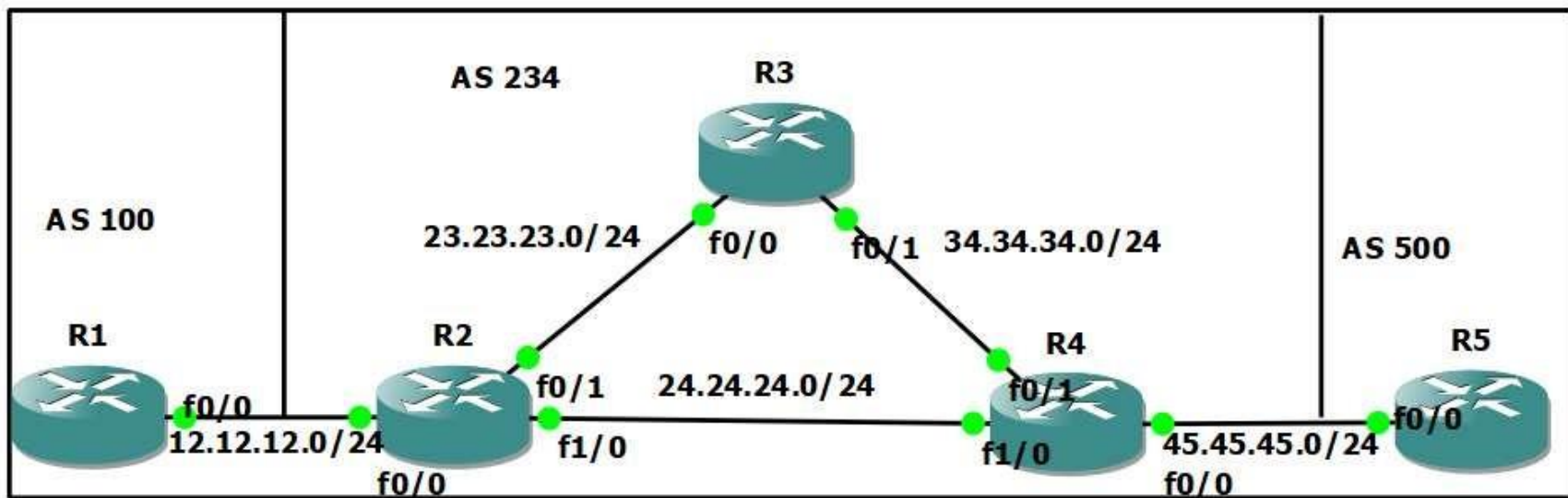
**SMART PEOPLE THINK.  
BRAVE PEOPLE TALK.  
GREAT PEOPLE ACT.**

SUCCESS.PORTAL



# Topologi iBGP Full Mesh

Topologi





# Konfigurasi iBGP Full Mesh

**Router1(config)#int fa0/0**

**Router1(config-if)#ip add 12.12.12.1 255.255.255.0**

**Router1(config-if)#no shutdown**

**Router2(config)#int fa0/0**

**Router2(config-if)#ip add 12.12.12.2 255.255.255.0**

**Router2(config-if)#no shutdown**

**Router2(config)#int fa0/1**

**Router2(config-if)#ip add 23.23.23.1 255.255.255.0**

**Router2(config-if)#no shutdown**

**Router2(config)#int fa1/0**

**Router2(config-if)#ip add 24.24.24.1 255.255.255.0**

**Router2(config-if)#int lo0**

**Router2(config-if)#ip add 2.2.2.2 255.255.255.255**

**Router3(config)#int fa0/0**

**Router3(config-if)#ip add 23.23.23.2 255.255.255.0**

**Router3(config-if)#no shutdown**

**Router3(config)#int fa0/1**

**Router3(config-if)#ip add 34.34.34.1 255.255.255.0**

**Router3(config-if)#no shutdown**

**Router3(config-if)#int lo0**

**Router3(config-if)#ip add 3.3.3.3 255.255.255.255**

**Router4(config)#int fa0/0**

**Router4(config-if)#ip add 45.45.45.1 255.255.255.0**

**Router4(config-if)#no shutdown**

**Router4(config)#int fa0/1**

**Router4(config-if)#ip add 34.34.34.2 255.255.255.0**

**Router4(config-if)#no shutdown**

**Router4(config)#int fa1/0**

**Router4(config-if)#ip add 24.24.24.2 255.255.255.0**

**Router4(config-if)#no shutdown**

**Router4(config-if)#int lo0**

**Router4(config-if)#ip add 4.4.4.4 255.255.255.255**

**Router5(config)#int fa0/0**

**Router5(config-if)#ip add 45.45.45.2 255.255.255.0**

**Router5(config-if)#no shutdown**

**Router5(config-if)#int lo0**

**Router5(config-if)#ip add 5.5.5.5 255.255.255.255**



## Konfigurasi iBGP Full Mesh (lanjutan)

R1(config)#router bgp 100

R1(config-router)#neighbor 12.12.12.2 remote-as 234

R1(config-router)#network 12.12.12.0 mask  
255.255.255.0

R5(config)#router bgp 500

R5(config-router)#neighbor 45.45.45.1 remote-as 234

R5(config-router)#network 45.45.45.0 mask  
255.255.255.0

R5(config-router)#network 5.5.5.5 mask  
255.255.255.255

R2(config)#router ospf 10

R2(config-router)#network 2.2.2.2 0.0.0.0 area 0

R2(config-router)#network 23.23.23.0 0.0.0.255 area 0

R2(config-router)#network 24.24.24.0 0.0.0.255 area 0

R2(config)#router bgp 234

R2(config-if)#neighbor 3.3.3.3 remote-as 234

R2(config-if)#neighbor 4.4.4.4 remote-as 234

R2(config-if)#neighbor 12.12.12.1 remote-as 100

R3(config)#router ospf 10

R3(config-router)#network 23.23.23.0 0.0.0.255 area 0

R3(config-router)#network 34.34.34.0 0.0.0.255 area 0

R3(config-router)#network 3.3.3.3 0.0.0.0 area 0

R3(config-router)#router bgp 234

R3(config-router)#neighbor 2.2.2.2 remote-as 234

R3(config-router)#neighbor 4.4.4.4 remote-as 234

R4(config)#router ospf 10

R4(config-router)#network 24.24.24.0 0.0.0.255 area 0

R4(config-router)#network 34.34.34.0 0.0.0.255 area 0

R4(config-router)#network 4.4.4.4 0.0.0.0 area 0

R4(config-router)#router bgp 234

R4(config-router)#neighbor 2.2.2.2 remote-as 234

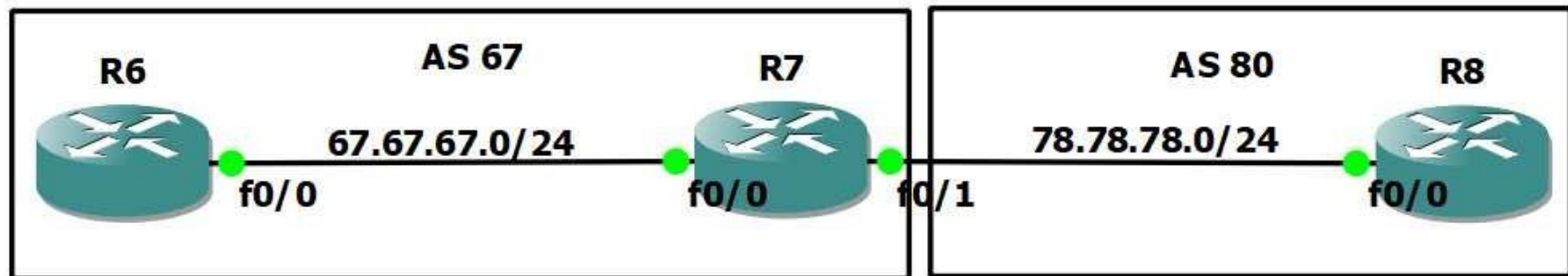
R4(config-router)#neighbor 3.3.3.3 remote-as 234

R4(config-router)#neighbor 45.45.45.2 remote-as 500





## Topologi BGP Nexthop-Self





# Konfigurasi BGP Nexthop-Self

```
Router6(config)#int fa0/0
```

```
Router6(config-if)#ip add 67.67.67.1 255.255.255.0
```

```
Router6(config-if)#no shutdown
```

```
Router7(config)#int fa0/0
```

```
Router7(config-if)#ip add 67.67.67.2 255.255.255.0
```

```
Router7(config-if)#no shutdown
```

```
Router7(config)#int fa0/1
```

```
Router7(config-if)#ip add 78.78.78.1 255.255.255.0
```

```
Router7(config-if)#no shutdown
```

```
Router8(config)#int fa0/0
```

```
Router8(config-if)#ip add 78.78.78.2 255.255.255.0
```

```
Router8(config-if)#no shutdown
```

```
Router8(config)#int lo1
```

```
Router8(config-if)#ip add 8.8.8.8 255.255.255.255
```

```
Router6(config)#router bgp 67
```

```
Router6(config-if)#neighbor 67.67.67.2 remote-as 67
```

```
Router7(config)#router bgp 67
```

```
Router7(config-if)#neighbor 67.67.67.1 remote-as 67
```

```
Router7(config-if)#neighbor 78.78.78.2 remote-as 80
```

```
Router7(config-if)#neighbor 67.67.67.1 next-hop-self
```

```
Router8(config)#router bgp 80
```

```
Router8(config-if)#neighbor 78.78.78.1 remote-as 67
```

```
Router8(config-if)#network 8.8.8.8 mask 255.255.255.255
```



[illegible]