

LAPORAN PRAKTIKUM 9

Jaringan Komputer



Disusun Oleh :

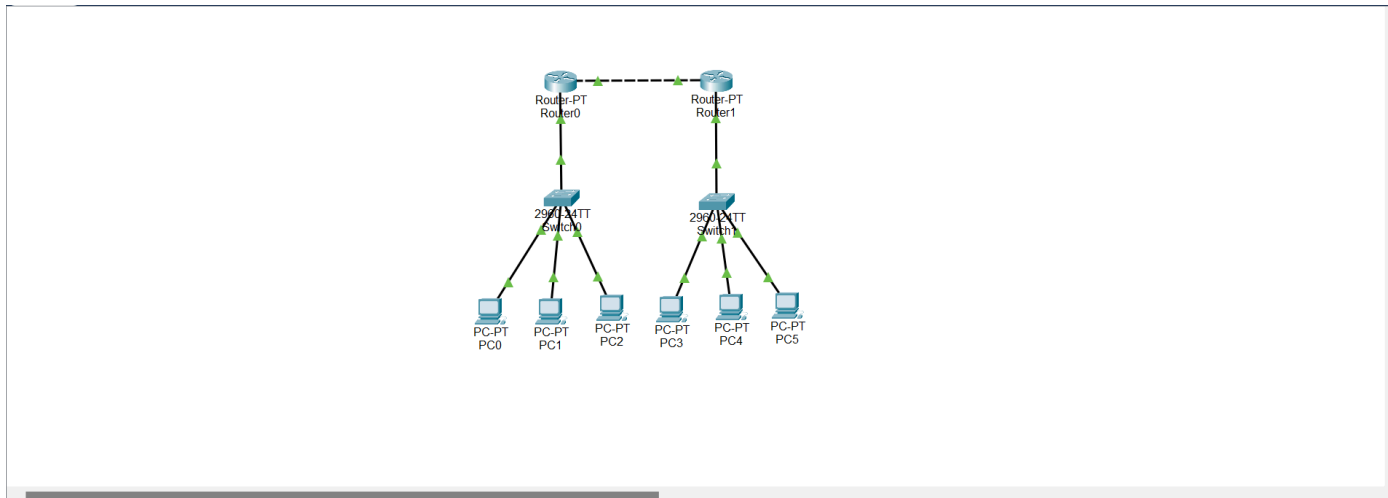
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PROGRAM STUDI SISTEM INFORMASI
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1. Buat jaringan dengan topologi berikut :



2. Lakukan setting terhadap Router0 untuk menghidupkan dan menambahkan ip address pada kabel fa1/0 dan fa0/0 dengan keterangan IP seperti berikut :

```
Router>
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int fa1/0
Router(config-if)#ip add 100.100.100.1 255.255.255.0
Router(config-if)#no sh

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up

Router(config-if)#exit
Router(config)#int fa0/0
Router(config-if)#ip ad 10.10.10.1 255.0.0.0
Router(config-if)#ip add 10.10.10.1 255.0.0.0
Router(config-if)#no sh

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

Router(config-if)#exit
Router(config)#|
```

3. Lakukan hal yang sama pada Router1 dengan keterangan IP seperti berikut :

```
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int fa1/0
Router(config-if)#ip add 200.200.200.1 255.255.255.0
Router(config-if)#no sh

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up

Router(config-if)#exit
Router(config)#int fa0/0
Router(config-if)#ip add 10.10.10.2 255.0.0.0
Router(config-if)#no sh

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
exit
Router(config)#
```

4. Tambahkan config untuk bgp 100 pada Router0 :

```
Router(config)#router bgp 100
Router(config-router)#neighbor 10.10.10.2 remote-as 200
Router(config-router)#net 100.100.100.0 mask 255.255.255.0
Router(config-router)#do w
Building configuration...
[OK]
Router(config-router)#exit
Router(config)#do sh ip bgp
BGP table version is 1, local router ID is 100.100.100.1
Status codes: s suppressed, d damped, h history, * valid, > best, i - internal,
               r RIB-failure, S Stale
Origin codes: i - IGP, e - EGP, ? - incomplete

   Network          Next Hop              Metric LocPrf Weight Path
Router(config)#
```

5. Tambahkan pula config untuk bgp 200 pada Router1 :

```
Router(config)#router bgp 200
Router(config-router)#neighbor 10.10.10.1 remote-as 100
Router(config-router)#%BGP-5-ADJCHANGE: neighbor 10.10.10.1 Up

Router(config-router)#net 200.200.200.0 mask 255.255.255.0
Router(config-router)#do w
Building configuration...
[OK]
Router(config-router)#exit
Router(config)#do sh ip bgp
BGP table version is 3, local router ID is 200.200.200.1
Status codes: s suppressed, d damped, h history, * valid, > best, i - internal,
               r RIB-failure, S Stale
Origin codes: i - IGP, e - EGP, ? - incomplete

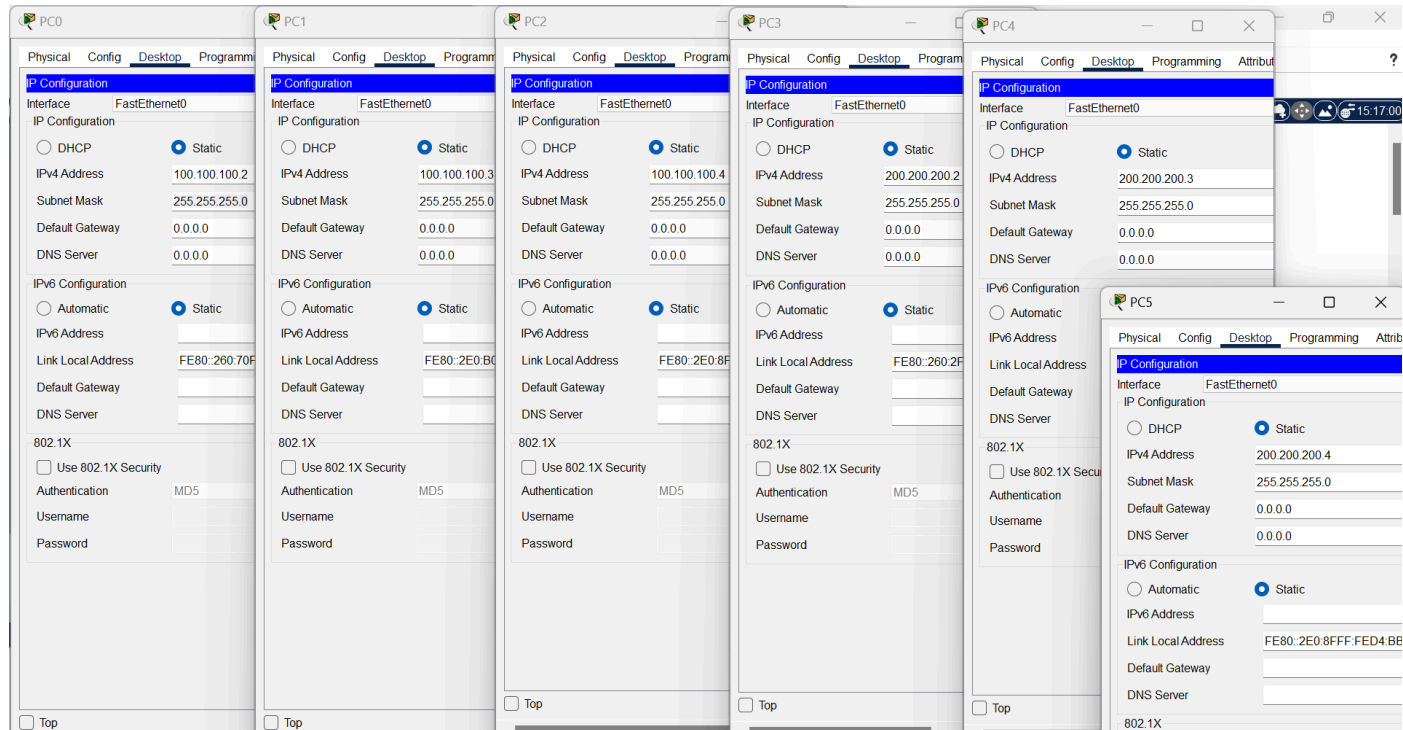
   Network          Next Hop              Metric LocPrf Weight Path
*> 100.100.100.0/24  10.10.10.1                0      0      0 100 i
*> 200.200.200.0/24  0.0.0.0                    0      0 32768 i
Router(config)#
```

6. Lakukan cek bgp pada Router0 lagi, sekarang seharusnya network 200.200.200.0/24 akan bertambah :

```
Router(config)#do sh ip bgp
BGP table version is 3, local router ID is 100.100.100.1
Status codes: s suppressed, d damped, h history, * valid, > best, i - internal,
               r RIB-failure, S Stale
Origin codes: i - IGP, e - EGP, ? - incomplete

   Network          Next Hop              Metric LocPrf Weight Path
*> 100.100.100.0/24  0.0.0.0                    0      0 32768 i
*> 200.200.200.0/24  10.10.10.2                0      0      0 200 i
Router(config)#
```

7. Berikan ip pada tiap pc :



8. Lakukan tes koneksi dengan mencoba untuk mengirimkan packet :

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC0	PC2	ICMP		0.000	N	5	(edit)	(delete)
	Successful	PC3	PC4	ICMP		0.000	N	6	(edit)	(delete)
	Successful	PC3	PC5	ICMP		0.000	N	7	(edit)	(delete)