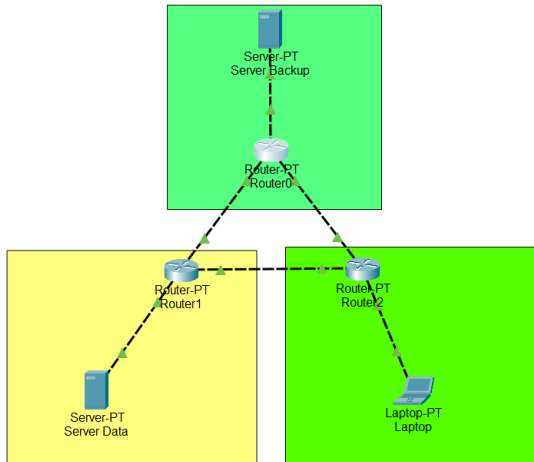




## Laporan Route (Jalur Jaringan) BGP Pertemuan 5

### Topologi Jaringan



### IP Address Setiap Device

Server Backup

Physical Config Services Desktop Programming Attributes

IP Configuration X

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.50.2

Subnet Mask 255.255.255.0

Default Gateway 192.168.50.1

DNS Server 0.0.0.0

Server Data

Physical Config Services Desktop Programming Attributes

IP Configuration X

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.100.2

Subnet Mask 255.255.255.0

Default Gateway 192.168.100.1

DNS Server 0.0.0.0



Laptop

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.150.2

Subnet Mask 255.255.255.0

Default Gateway 192.168.150.1

DNS Server 0.0.0.0

Device Name: Router0  
Device Model: Router-PT  
Hostname: Router

Port	Link	IP Address	IPv6 Address	MAC Address
FastEthernet0/0	Up	10.10.10.1/8	<not set>	0050.0F09.43BA
FastEthernet1/0	Up	20.20.20.1/8	<not set>	0010.11C0.A52B
Serial2/0	Down	<not set>	<not set>	<not set>
Serial3/0	Down	<not set>	<not set>	<not set>
FastEthernet4/0	Down	<not set>	<not set>	0001.9677.8325
FastEthernet5/0	Down	<not set>	<not set>	0000.0C5E.C63D
FastEthernet6/0	Up	192.168.50.1/24	<not set>	00D0.97A6.7423
FastEthernet7/0	Down	<not set>	<not set>	000C.8560.5D1A

Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > Router0

Device Name: Router1  
Device Model: Router-PT  
Hostname: Router

Port	Link	IP Address	IPv6 Address	MAC Address
FastEthernet0/0	Up	10.10.10.2/8	<not set>	00E0.A375.E0CC
FastEthernet1/0	Up	30.30.30.1/8	<not set>	0050.0F2C.8649
Serial2/0	Down	<not set>	<not set>	<not set>
Serial3/0	Down	<not set>	<not set>	<not set>
FastEthernet4/0	Down	<not set>	<not set>	0040.0B94.6939
FastEthernet5/0	Down	<not set>	<not set>	0007.EC03.D0D8
FastEthernet6/0	Up	192.168.100.1/24	<not set>	0060.5C86.72B1
FastEthernet7/0	Down	<not set>	<not set>	0030.A358.1136

Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > Router1

Device Name: Router2  
Device Model: Router-PT  
Hostname: Router

Port	Link	IP Address	IPv6 Address	MAC Address
FastEthernet0/0	Up	30.30.30.2/8	<not set>	0001.C93E.3E51
FastEthernet1/0	Up	20.20.20.2/8	<not set>	0090.2B6A.C0D2
Serial2/0	Down	<not set>	<not set>	<not set>
Serial3/0	Down	<not set>	<not set>	<not set>
FastEthernet4/0	Down	<not set>	<not set>	00E0.B02D.A1A7
FastEthernet5/0	Down	<not set>	<not set>	0001.429D.D03B
FastEthernet6/0	Up	192.168.150.1/24	<not set>	0090.2152.BA94
FastEthernet7/0	Down	<not set>	<not set>	0040.0B7D.EC98

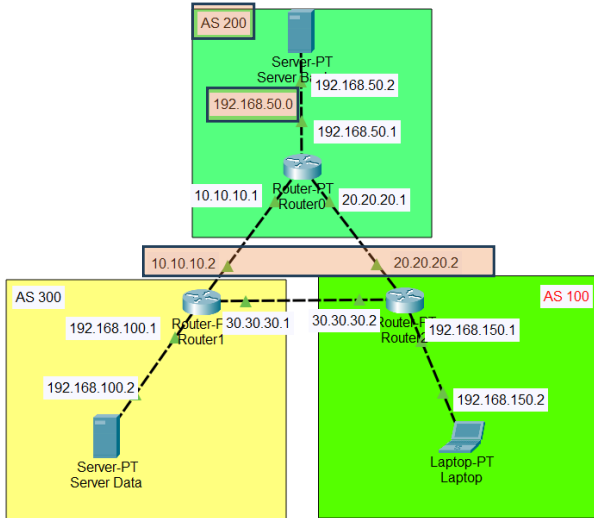
Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > Router2



## Konfigurasi Setiap Router

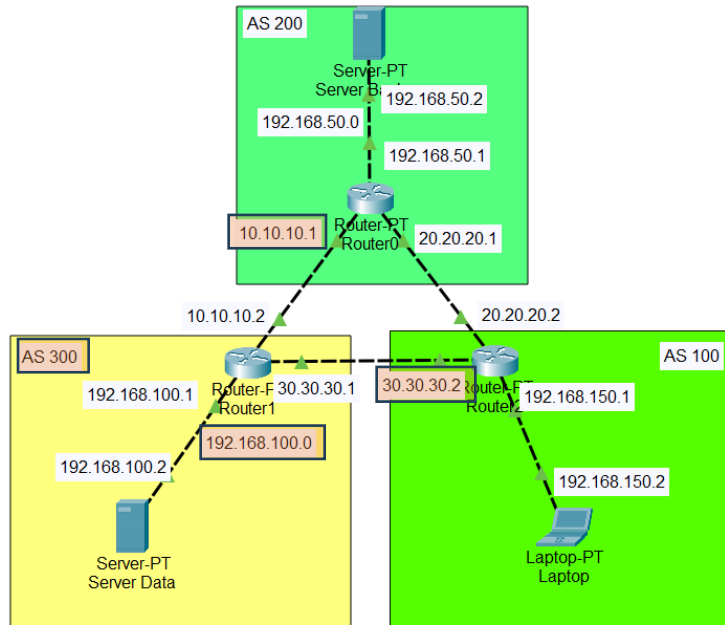
### Router 0

```
Router>enable
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router bgp 200
Router(config-router)#neighbor 20.20.20.2 remote-as 100
Router(config-router)#neighbor 10.10.10.2 remote-as 300
Router(config-router)#network 192.168.50.0 mask 255.255.255.0
Router(config-router)#exit
Router(config)#do write
Building configuration...
[OK]
Router(config)#
```



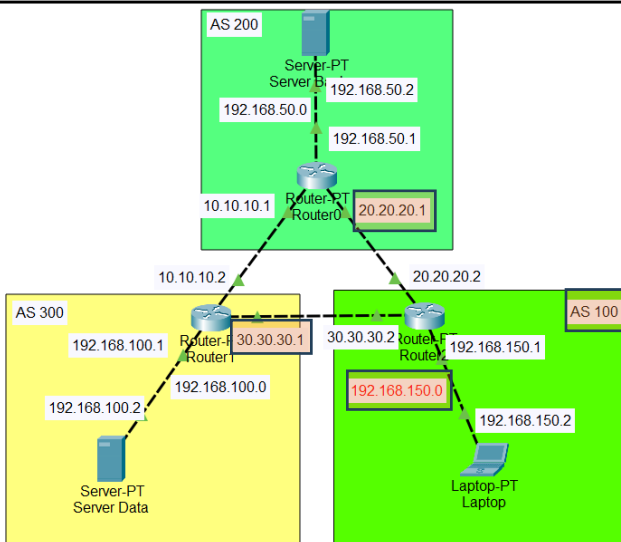
### Router 1

```
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router bgp 300
Router(config-router)#neighbor 10.10.10.1 remote-as 200
Router(config-router)#%BGP-5-ADJCHANGE: neighbor 10.10.10.1 Up
Router(config-router)#neighbor 30.30.30.2 remote-as 100
Router(config-router)#network 192.168.100.0 mask 255.255.255.0
Router(config-router)#exit
Router(config)#do write
Building configuration...
[OK]
Router(config)#
```



## Router 2

```
Router>enable
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router bgp 100
Router(config-router)#neighbor 20.20.20.1 remote-as 200
Router(config-router)%%BGP-5-ADJCHANGE: neighbor 20.20.20.1 Up
neighbor 30.30.30.1 remote-as 300
Router(config-router)%%BGP-5-ADJCHANGE: neighbor 30.30.30.1 Up
network 192.168.150.0 mask 255.255.255.0
Router(config-router)#exit
Router(config)#do write
Building configuration...
[OK]
Router(config)#
```





## Hasil/Output

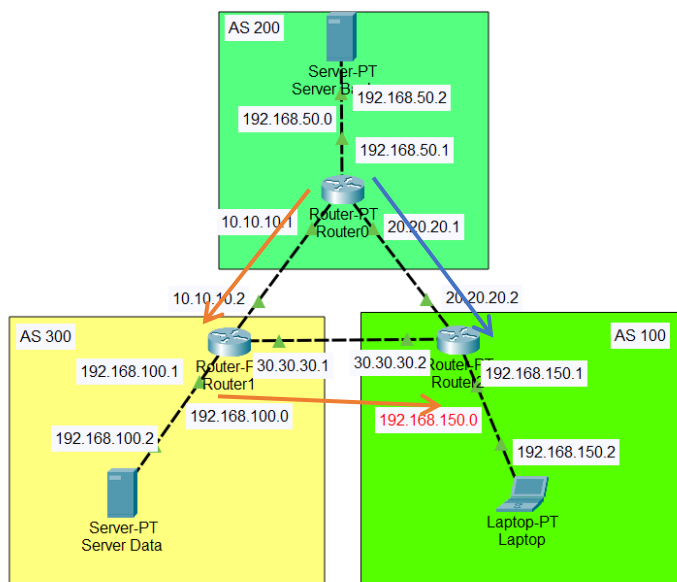
```
Router>enable
Router#show ip bgp
BGP table version is 6, local router ID is 192.168.50.1
Status codes: s suppressed, d damped, h history, * valid, > best, i - internal,
               r RIB-failure, S Stale
Origin codes: i - IGP, e - EGP, ? - incomplete
```

Network	Next Hop	Metric	LocPrf	Weight	Path
*> 192.168.50.0/24	0.0.0.0	0	0	32768	i
*> 192.168.100.0/24	10.10.10.2	0	0	0	300 i
*	20.20.20.2	0	0	0	100 300 i
*> 192.168.150.0/24	20.20.20.2	0	0	0	100 i
*	10.10.10.2	0	0	0	300 100 i

Router#

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	Serve...	Server Data	ICMP		0.000	N	0	(edit)	(delete)
	Successful	Serve...	Laptop	ICMP		0.000	N	1	(edit)	(delete)
	Successful	Serve...	Server Data	ICMP		0.000	N	2	(edit)	(delete)
	Successful	Serve...	Laptop	ICMP		0.000	N	3	(edit)	(delete)

## BGP Routes



## Keterangan:

Panah Biru = Route 1

Panah Orange = Route 2



#### Route 1

- 192.168.50.1
- Next Hope: 20.20.20.2
- 192.168.150.2



#### Server Backup

Physical Config Services Desktop Programming Attributes

#### Command Prompt

```
Cisco Packet Tracer SERVER Command Line 1.0
C:\>tracert 192.168.150.2

Tracing route to 192.168.150.2 over a maximum of 30 hops:

  1  0 ms      0 ms      0 ms      192.168.50.1
  2  0 ms      0 ms      0 ms      20.20.20.2
  3  0 ms      0 ms      0 ms      192.168.150.2

Trace complete.

C:\>
```

#### Route 2

- 192.168.50.1
- Next Hope: 10.10.10.2
- Next Hope: 30.30.30.2
- 192.168.150.2

#### Catatan:

Saya tidak bisa menampilkan routes 2 karena command prompt hanya menampilkan route tercepat saja yaitu route 1 yang mempunyai weight sebesar 100 sedangkan route 2 mempunyai weight 400