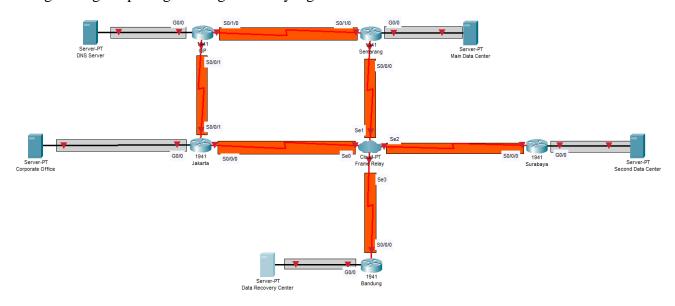


PRAKTIKUM DESAIN DAN MANAJEMEN JARINGAN KOMPUTER

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1. Menghubungkan perangkat dengan kabel yang sesuai.



2. Memberi hostname ke perangkat.

Router(config) #host Jakarta Router(config) #host Semarang Router(config) #host Surabaya
Jakarta(config) # Semarang(config) # Surabaya(config) #
Router(config) #host Bandung Router(config) #host ISP
Bandung(config) # ISP(config) #

3. Pengalamatan.

Jakarata:

```
Jakarta(config) #int s0/0/0

Jakarta(config-if) #ip add 34.42.0.1 255.255.255.0

Jakarta(config-if) #no sh

Jakarta(config-if) #int s0/0/1

Jakarta(config-if) #ip add 134.142.0.2 255.255.255.252

Jakarta(config-if) #no sh

Jakarta(config-if) #int g0/0

Jakarta(config-if) #ip add 192.168.34.1 255.255.255.0

Jakarta(config-if) #no sh
```

- Semarang:



```
Semarang(config) #int s0/0/0
Semarang(config-if) #ip add 34.42.0.2 255.255.255.0
Semarang(config-if) #no sh
Semarang(config-if) #int s0/1/0
Semarang(config-if) #ip add 134.142.0.6 255.255.255.252
Semarang(config-if) #no sh
Semarang(config-if) #int g0/0
Semarang(config-if) #ip add 192.168.43.1 255.255.255.0
Semarang(config-if) #no sh
```

- Surabaya:

```
Surabaya(config) #int s0/0/0
Surabaya(config-if) #ip ad 34.42.0.3 255.255.255.0
Surabaya(config-if) #no sh
Surabaya(config-if) #int g0/0
Surabaya(config-if) #ip add 192.168.42.1 255.255.255.0
Surabaya(config-if) #no sh
```

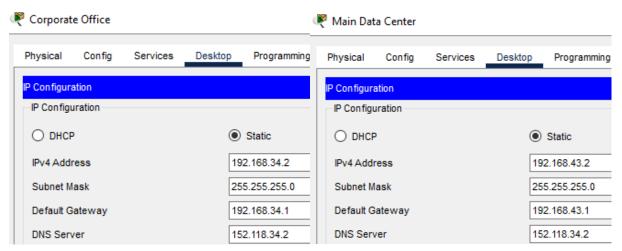
- Bandung:

```
Bandung(config) #int s0/0/0
Bandung(config-if) #ip add 34.42.0.4 255.255.255.0
Bandung(config-if) #no sh
Bandung(config-if) #int g0/0
Bandung(config-if) #ip add 192.168.24.1 255.255.255.0
Bandung(config-if) #no sh
```

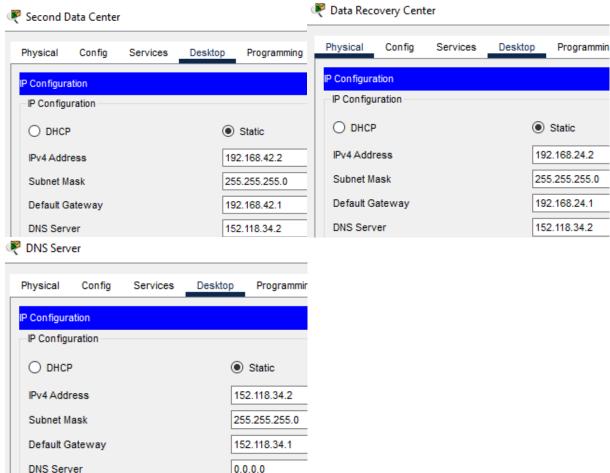
- ISP:

```
ISP(config) #int s0/0/1
ISP(config-if) #ip add 134.142.0.1 255.255.252
ISP(config-if) #no sh
ISP(config-if) #int s0/1/0
ISP(config-if) #ip add 134.142.0.5 255.255.252
ISP(config-if) #no sh
ISP(config-if) #int g0/0
ISP(config-if) #ip add 152.118.34.1 255.255.255.0
ISP(config-if) #no sh
```

End devices:







Konfigurasi PPP

- 4. Konfigurasi PPP.
 - Jakarta:

Jakarta(config)#int s0/0/1 Jakarta(config-if)#encap ppp Jakarta(config-if)#ppp auth chap Jakarta(config-if)#username ISP secret cisco

Semarang:

Semarang(config)#int s0/1/0
Semarang(config-if)#encap ppp
Semarang(config-if)#ppp auth chap
Semarang(config-if)#user ISP sec cisco

- ISP:

ISP(config) #int s0/0/1
ISP(config-if) #encap ppp
ISP(config-if) #ppp auth chap
ISP(config-if) #username Jakarta secret cisco
ISP(config) #int s0/1/0
ISP(config-if) #encap ppp
ISP(config-if) #ppp auth chap
ISP(config-if) #user Semarang sec cisco



5. Tes PPP.

Last Status	Source	Destination	Type
Successful	Jakarta	ISP	ICMP
Successful	Semarang	ISP	ICMP

Konfigurasi Frame Relay

6. Konfigurasi interface.

		Auu	*********		Auu
INTERFACE			INTERFACE	DLCI	Name
Serial0	DLCI	Name	Serial0		
Serial1	101	to_SMR	Serial1	20	_
	102	to_SBY	Serial2		02 to_SBY
Serial2	103	to_BDG	0 10	20	3 to_BDG
INTERFACE			Serial2		Auu
Serial0	DLCI	Name		DLCI	Name
	301	to JKT	Serial3	401	to_JKT
Serial1	302	to SMR	Modem4	402	to_SMR
Serial2	303	to BDG	Modem5	403	_
Serial3		555		403	to_SBY

7. Konfigurasi koneksi frame relay.

Frame Relay to_BDG <-> Serial2 Serial3 to_SBY Port Sublink Port Sublink Sublink Sublink From Port To Port 1 Serial0 to_SMR Serial1 to_JKT 2 Serial0 to_SBY Serial2 to_JKT 3 Serial0 to_BDG Serial3 to_JKT 4 Serial1 to_SBY Serial2 to_SMR 5 Serial1 to_BDG Serial3 to_SMR 6 Serial2 to_BDG Serial3 to_SBY

- 8. Konfigurasi frame relay.
 - Jakarta:



```
Jakarta(config) #int s0/0/0

Jakarta(config-if) #encap frame

Jakarta(config-if) #encap frame-relay

Jakarta(config-if) #frame lmi ansi

Jakarta(config-if) #frame map ip 34.42.0.2 101 broad

Jakarta(config-if) #frame map ip 34.42.0.3 102 broad

Jakarta(config-if) #frame map ip 34.42.0.4 103 broad
```

- Semarang:

```
Semarang(config) #int s0/0/0
Semarang(config-if) #encap frame
Semarang(config-if) #frame lmi ansi
Semarang(config-if) #frame map ip 34.42.0.1 201 broad
Semarang(config-if) #frame map ip 34.42.0.3 202 broad
Semarang(config-if) #frame map ip 34.42.0.4 203 broad
```

- Surabaya:

```
Surabaya(config) #int s0/0/0
Surabaya(config-if) #encap frame
Surabaya(config-if) #frame lmi ansi
Surabaya(config-if) #frame map ip 34.42.0.1 301 broad
Surabaya(config-if) #frame map ip 34.42.0.2 302 broad
%Address already in map
Surabaya(config-if) #frame map ip 34.42.0.4 303 broad
```

- Bandung:

```
Bandung(config) #int s0/0/0
Bandung(config-if) #encap frame
Bandung(config-if) #frame lmi ansi
Bandung(config-if) #frame map ip 34.42.0.1 401 broad
Bandung(config-if) #frame map ip 34.42.0.2 402 broad
Bandung(config-if) #frame map ip 34.42.0.3 403 broad
```

9. Tes frame relay.

Last Status	Source	Destination	Туре
Successful	Jakarta	Semarang	ICMP
Successful	Jakarta	Surabaya	ICMP
Successful	Jakarta	Bandung	ICMP
Successful	Semarang	Surabaya	ICMP
Successful	Semarang	Bandung	ICMP
Successful	Surabaya	Bandung	ICMP

Routing

10. Konfigurasi EIGRP.

- Jakarta:

```
Jakarta(config) #router eigrp 10

Jakarta(config-router) #net 34.42.0.0 0.0.0.255

Jakarta(config-router) #net 134.142.0.0 0.0.0.3

Jakarta(config-router) #net 192.168.34.0 0.0.0.255

Jakarta(config-router) #passive g0/0
```

Semarang:



```
Semarang(config) #router eigrp 10

Semarang(config-router) #net 34.42.0.0 0.0.0.255

Semarang(config-router) #net 134.142.0.4 0.0.0.3

Semarang(config-router) #net 192.168.43.0 0.0.0.255

Semarang(config-router) #passive g0/0
```

- Surabaya:

```
Surabaya(config) #router eigrp 10
Surabaya(config-router) #net 34.42.0.0 0.0.0.255
Surabaya(config-router) #net 192.168.42.0 0.0.0.255
Surabaya(config-router) #passive g0/0
```

- Bandung:

```
Bandung(config) #router eigrp 10
Bandung(config-router) #net 34.42.0.0 0.0.0.255
Bandung(config-router) #net 192.168.24.0 0.0.0.255
Bandung(config-router) #passive g0/0
```

- ISP:

```
ISP(config) #router eigrp 10

ISP(config-router) #net 134.142.0.0 0.0.0.3

ISP(config-router) #net 134.142.0.4 0.0.0.3

ISP(config-router) #net 152.118.34.0 0.0.0.255

ISP(config-router) #passive g0/0
```

11. Tes EIGRP.

Last Status	Source	Destination
Successful	Corporate Office	DNS Server
Successful	Corporate Office	Main Data Center
Successful	Corporate Office	Second Data Center
Successful	Corporate Office	Data Recovery Center
Successful	Main Data Center	DNS Server
Successful	Main Data Center	Second Data Center
Successful	Main Data Center	Data Recovery Center
Successful	Second Data Center	ISP
Successful	Second Data Center	Data Recovery Center
Successful	Data Recovery Center	DNS Server