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Praktikum Jaringan Komputer Pertemuan Ke-8

Praktik

1. Konfigurasi Router 2

```
Router>enable
      Router#config terminal
     Enter configuration commands, one per line. End with CNTL/Z.
     Router(config) #interface fa0/0
      Router(config-if)#ip address 192.168.9.2 255.255.255.255
     Bad mask /32 for address 192.168.9.2
Router(config-if) #ip address 192.168.9.2 255.255.255.252
Router(config-if) #no shutdown
     Router(config-if)#
     %LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
     Router(config-if) #interface fal/0
     Router(config-if) #ip address 192.168.5.1 255.255.255.0
     Router(config-if) #no shutdown
     Router(config-if) #interface fa4/0
     Router(config-if) #ip address 192.168.3.1 255.255.255.128
     Router(config-if) #no shutdown
     %LINK-5-CHANGED: Interface FastEthernet4/0, changed state to up
2. Konfigurasi router 3
     Router>enable
     Router#config terminal
     Enter configuration commands, one per line. End with CNTL/Z.
     Router(config) #interface fal/0
     Router(config-if) #ip address 192.168.9.1 255.255.255.252
     Router(config-if) #no shutdown
     %LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up
     %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0,
     Router(config-if)#interface fa0/0
     Router(config-if) #192.168.6.1 255.255.255.252
     % Invalid input detected at '^' marker.
     Router(config-if) #ip address 192.168.6.1 255.255.255.252
     Router(config-if) #no shutdown
     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
     Router(config-if)#interface fa6/0
     Router(config-if) #
     Router(config-if)#
     Router(config-if) #ip address 192.168.8.1 255.255.255.224
     Router(config-if) #no shutdown
     Router(config-if)#
     %LINK-5-CHANGED: Interface FastEthernet6/0, changed state to up
     %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet6/0,
     changed state to up
      Router(config-if)#interface fa7/0
     Router(config-if)#ip address 192.168.1.1 255.255.255.192 Router(config-if)#no shutdown
      Router(config-if)#
      %LINK-5-CHANGED: Interface FastEthernet7/0, changed state to up
      %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet7/0.
```

3. Konfigurasi Server



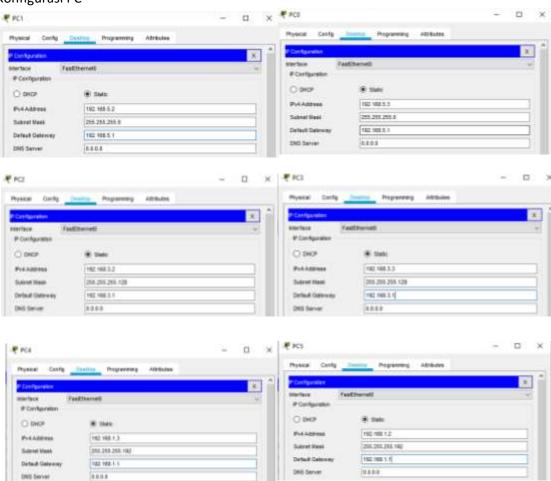
4. Konfigurasi router static pada Router 2

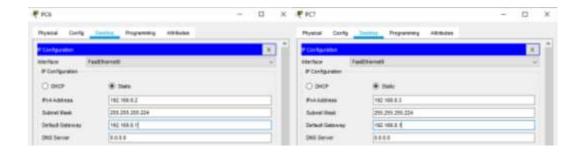
Router(config) #ip route 192.168.8.0 255.255.255.224 192.168.9.1 Router(config) #ip route 192.168.6.0 255.255.255.252 192.168.9.1 Router(config) #ip route 192.168.1.0 255.255.255.192 192.168.9.1 Router(config) #

5. Konfigurasi router static pada Router 3

Router#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 192.168.5.0 255.255.255.0 192.168.9.2
Router(config)#ip route 192.168.3.0 255.255.255.128 192.168.9.2
Router(config)#

6. Konfigurasi PC





7. Pengujian:

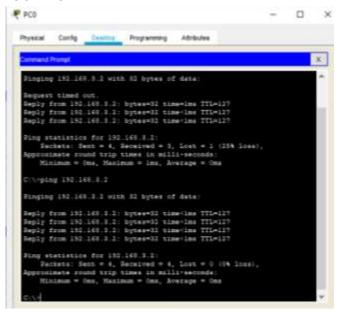
- Table routing

Routing Table for Router2

Туре	Network	Port	Next Hop IP	Metric	Routing Table for Router3				
S	192.168.1.0/26		192.168.9.1	1/0	Туре	Network.	Port	Next Hop IP	Netric
S	192.168.1.0/27		192.168.9.1	1/0	C S	192,168.3,0/26	Fast:theme(73)	192 168.9.2	0.00
С	192.168.3.0/25	FastEthernet4/0		0/0	S	192 168 5 0/24		192.168.9.2	
0	192.168.5.0/24	FastEthernet1/0		0/0	c	192.168.6.0/30	FastEthernet0/0	_	0/0
3	192.168.6.0/27		192.168.9.1	1/0	c	192,168.8,0/27	FastEthemet6/0		0.00
S	192.168.6.0/30		192.168.9.1	1/0	c	192.168.9.0/30	FastEthemet1/0	-	0/0

- Tes Ping

PC 0 -> PC 2



PC 4 -> PC 6

```
Physical Comfig Country Programming Afteriors

Command Planet

Suchast Traces BC Command Line 1.0
Cityping 152.168.8.2 with 32 bytes of data:

Enging 152.168.8.2 with 32 bytes of data:

Enging from 152.168.8.2: bytes 02 time-line TIL-127

Enging from 152.168.8.3: bytes 02 time-line TIL-127

Enging from 152.168.8.3: bytes 02 time-line TIL-127

Paging from 152.168.8.3: bytes 02 time-line TIL-127

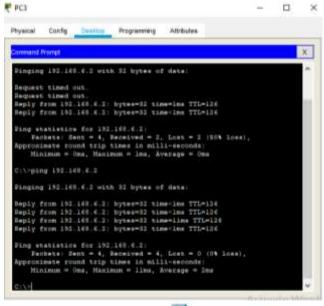
Paging statistics for 102.168.8.3:

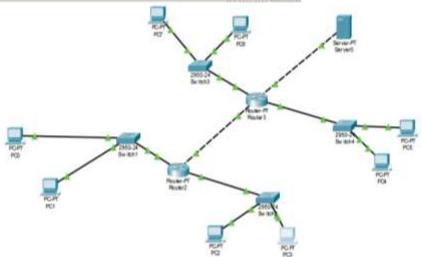
Factors: Sent w 4, Seculosed = 3, Lost w 1 (25% loss),
Approximate round strip times in milli-secunds:

Minimum = One, Maximum = line, Reserve = Tex

C:50
```

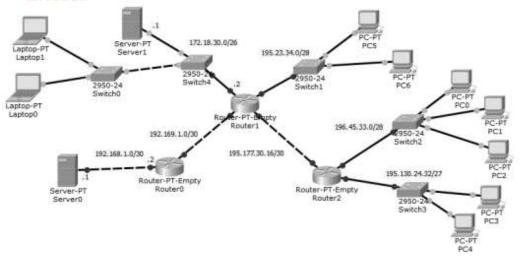
PC 3 -> Server





1.

Buatlah sebuah topologi seperti yang ada di bawah ini dengan menggunakan Router-PT-Empty, tambahkan module PT-ROUTER-NM-1CFE sebanyak yang dibutuhkan pada masing-masing router tersebut.



Berdasarkan topologi tersebut, tentukan sendiri alamat IP dari masingmasing PC, interface router, gateway, dsb.

Buatlah tabel routing masing-masing Router, capture, dan lakukan ping dari dan ke semua jaringan yang ada.

Konfigurasi Router 0

```
Router(config) #interface fa0/0
Router(config-if) #ip add
% Incomplete command.
Router(config-if) #ip add 192.168.1.2 255.255.252.252
Router(config-if) #no shutdown

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

Router(config-if) #interface fa1/0
Router(config-if) #ip address 192.169.1.1 255.255.252.252
Router(config-if) #no shutdown

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

- Konfigurasi Router 1

```
Router(config) #interface fa0/0
Router(config-if) #ip address 192.169.1.2 255.255.252.252
Router(config-if) #no shutdown

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

Router(config-if) #interface fa1/0
Router(config-if) #ip address 195.177.30.16 255.255.252.252
Bad mask /30 for address 195.177.30.16
Router(config-if) #ip address 195.177.30.17 255.255.252
Router(config-if) # address 195.177.30.17 255.255.252
Router(config-if) # no shutdown

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

```
Router(config-if) #interface fa2/0
Router(config-if) #ip address 195.23.34.1 255.255.255.240
Router(config-if) #no shutdown

Router(config-if) #
%LINK-5-CHANGED: Interface FastEthernet2/0, changed state to up

Router(config-if) #interface fa3/0
Router(config-if) #ip address 172.18.30.2 255.255.255.192
Router(config-if) #no shutdown

Router(config-if) #
%LINK-5-CHANGED: Interface FastEthernet3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet3/0,
```

Konfigurasi Router 2

```
Router(config) #interface fa0/0
Router(config-if) #195.177.30.18 255.255.255.252
% Invalid input detected at '^' marker.
Router(config-if) #ip add 195.177.30.18 255.255.255.252
Router(config-if) #no shut
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
Router(config-if) #interface fal/0
Router(config-if) #ip add
% Incomplete command.
Router(config-if) #ip add 195.130.24.33 255.255.255.224
Router(config-if) #no shut
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0. changed state to up
Router(config-if)#interface fa2/0
Router(config-if) #ip add 196.45.33.1 255.255.255.240
Router(config-if) #no shut
%LINK-5-CHANGED: Interface FastEthernet2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet2/0,
```

Konfigurasi router static Router 0

```
Router(config) #ip route 192.169.1.0 255.255.255.252 192.169.1.2 Router(config) #ip route 172.18.30.0 255.255.255.192 172.18.30.2 Router(config) #ip route 195.23.34.0 255.255.255.240 195.23.34.1 Router(config) #ip route 195.177.30.16 255.255.252 195.177.30.17 Router(config) #ip route 195.177.30.16 255.255.255.252 195.177.30.18 Router(config) #ip route 195.130.24.32 255.255.255.224 195.130.24.33 Router(config) #ip route 195.45.33.0 255.255.255.240 195.45.33.1 Router(config) #
```

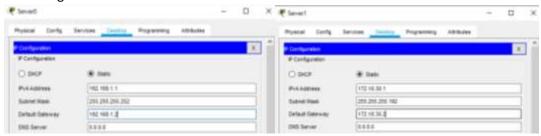
Konfigurasi router static Router 1

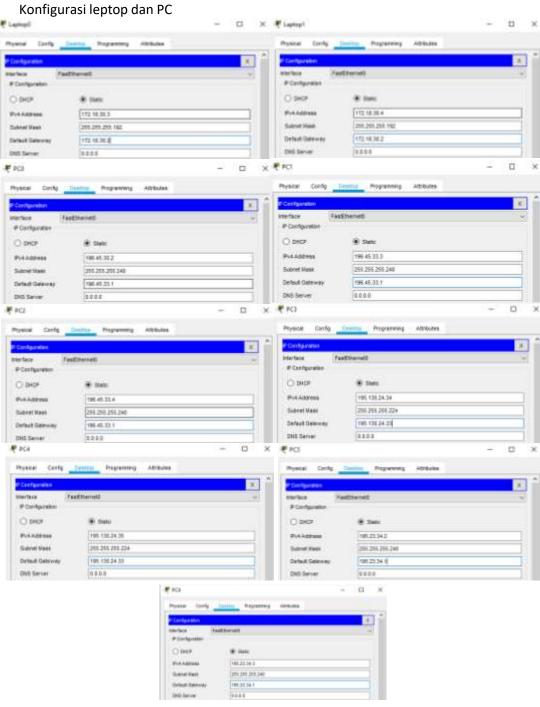
```
Router(config) #ip route 192.169.1.0 255.255.255.252 192.169.1.1 Router(config) #ip route 192.168.1.0 255.255.255.252 192.168.1.1 Router(config) #ip route 196.45.33.0 255.255.255.240 196.45.33.1 Router(config) #ip route 195.130.24.32 255.255.255.224 195.130.24.33 Router(config) #
```

Konfigurasi router satic Router 2

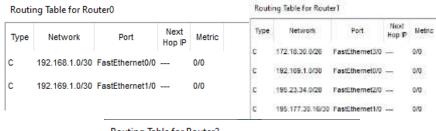
```
Router(config) #ip route 192.168.1.0 255.255.255.252 192.168.1.1 Router(config) #ip route 192.169.1.0 255.255.255.252 192.169.1.1 Router(config) #ip route 172.18.30.0 255.255.255.252 172.18.30.2 Router(config) #ip route 195.23.34.0 255.255.255.240 195.23.34.1 Router(config) #ip route 172.18.30.0 255.255.255.192 172.18.30.2 Router(config) #
```

Konfigurasi server 0 dan server 1





- Table Routing

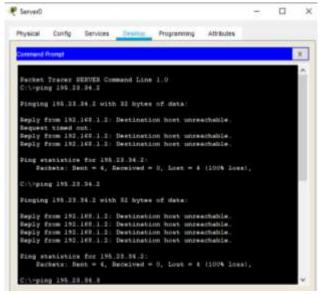


Routing Table for Router2

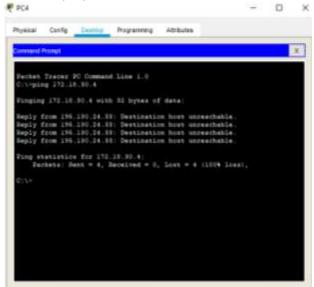
Туре	Network	Port	Next Hop IP	Metric
С	195.130.24.32/27	FastEthernet1/0		0/0
С	195.177.30.16/30	FastEthernet0/0		0/0
С	196.45.33.0/28	FastEthernet2/0		0/0

Test Ping

Server 0 -> PC 5



PC 4 -> Leptop 1



o PC 1 -> PC 6

