LAPORAN PRAKTIKUM JARKOM PERTEMUAN KE-9

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SUBNETTING DAN STATIC ROUTING (1)

A. Praktik

1. Buatlah topologi seperti berikut ini dan lakukan pengalamatan dan proses routing jaringan sesuai dengan alamat IP yang teah diberikan.

a. Konfigurasi Leptop



b. Konfigurasi PC





c. Konfigurasi Router

- Router 1

```
Router(config) #interface fa0/0
Router(config-if) #ip address 199.34.56.1 255.255.255.240
Router(config-if) # no shut

Router(config-if) #
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
Router(config-if) #interface fa1/0
Router(config-if) #ip address 199.34.56.49 255.255.255.240
Router(config-if) # no shut
Router(config) #interface fa4/0
Router(config-if) # p address 199.34.56.65 255.255.255.240
Router(config-if) # no shut

Router(config-if) # no shut

Router(config-if) # %LINK-5-CHANGED: Interface FastEthernet4/0, changed state to up
```

Router 2

```
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #interface fa0/0
Router(config-if) #ip address 199.34.56.2 255.255.255.240
Router(config-if) #no shut
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 fal/0
Router(config-if) #ip address 199.34.56.97 255.255.255.240
Router(config-if) #no shut
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up
Router(config-if) #interface fa4/0
Router(config-if) #ip address 199.34.56.113 255.255.255.240
Router(config-if) #no shut
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet4/0, changed state to up
```

Kofigurasi Router 3

```
TIME.
Router(config) #interface fa0/0
Router(config-if) #ip address 199.34.56.98 255.255.255.240
Router(config-if) #no shut
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 fal/0
Router(config-if) #ip address 199.34.56.17 255.255.255.240
Router(config-if) #no shut
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
% Invalid input detected at '^' marker.
Router(config-if)#interface fa4/0
Router(config-if) #ip address 199.34.56.81 255.255.255.240
Router(config-if) #no shut
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet4/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet4/0,
changed state to up
```

- Konfigurasi Router 4

```
Router(config-if) #interface fal/0
Router(config-if) #ip add 199.34.56.33 255.255.255.240
Router(config-if) #no shut
Router(config-if) #interface fa0/0
Router(config-if) #ip add
% Incomplete command.
Router(config-if) #ip add 199.34.56.114 255.255.255.240
Router(config-if) #no shut
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
```

d. Konfigurasi Static Routing

- Router 1

Enter configuration commands, one per line. End with CNTL/Z. Router(config) #ip route 199.34.56.32 255.255.255.240 199.34.56.114 Router(config) #ip route 199.34.56.16 255.255.255.240 199.34.56.98 Router(config) #ip route 199.34.56.80 255.255.255.240 199.34.56.98

Router 2

Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #ip route 199.34.56.48 255.255.255.240 199.34.56.1
Router(config) #ip route 199.34.56.64 255.255.255.240 199.34.56.1
Router(config) #ip route 199.34.56.16 255.255.255.240 199.34.56.98
Router(config) #ip route 199.34.56.80 255.255.255.240 199.34.56.98
Router(config) #ip route 199.34.56.32 255.255.255.240 199.34.56.114
Router(config) #

Router 3

Enter configuration commands, one per line. End with CNTL/Z.

Router(config) #ip route 199.34.56.48 255.255.255.240 199.34.56.1

Router(config) #ip route 199.34.56.64 255.255.255.240 199.34.56.1

Router(config) #ip route 199 34.56.32 255.255.255.240 199.34.56.114

% Invalid input detected at '^' marker.

Router(config) #ip route 199.34.56.32 255.255.255.240 199.34.56.114 Router(config) #

- Router 4

Router(config) #ip route 199.34.56.48 255.255.255.240 199.34.56.113 Router(config) #ip route 199.34.56.64 255.255.255.240 199.34.56.113 Router(config) #ip route 199.34.56.16 255.255.255.240 199.34.56.113 Router(config) #ip route 199.34.56.80 255.255.255.240 199.34.56.113 Router(config) #ip route 199.34.56.0 255.255.255.240 199.34.56.113

e. Tes Jaringan

- PC 0 - PC 5

```
Physical Config Communical Entering Abstracts

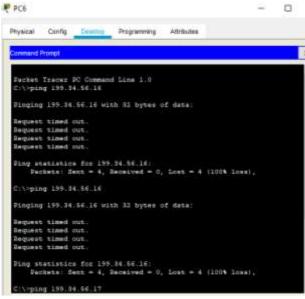
Communication For Communication 1.8

Citrying 150.34.56.34 with 32 bytes of data:

Sequent timed out.

Sequent timed out.
```

- PC 6 - PC 0



f. Table Routing

- Router 1

Routing Table for Router1

Туре	Network	Port	Next Hop IP	Metric
С	199.34.56.0/28	FastEthernet0/0		0/0
С	199.34.56.48/28	FastEthernet1/0		0/0
С	199.34.56.64/28	FastEthernet4/0		0/0

- Router 2

Routing Table for Router2

Туре	Network	Port	Next Hop IP	Metric
С	199.34.56.0/28	FastEthernet0/0		0/0
s	199.34.56.16/28		199.34.56.98	1/0
s	199.34.56.32/28		199.34.56.114	1/0
S	199.34.56.48/28		199.34.56.1	1/0
S	199.34.56.64/28		199.34.56.1	1/0
s	199.34.56.80/28		199.34.56.98	1/0

- Router 3

Routing Table for Router3

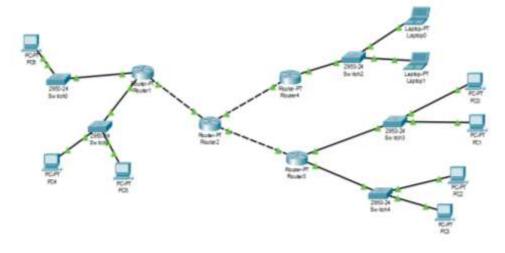
	Туре	Network	Port	Next Hop IP	Metric
	С	199.34.56.16/28	FastEthernet1/0		0/0
	С	199.34.56.80/28	FastEthernet4/0		0/0
	С	199.34.56.96/28	FastEthernet0/0		0/0
П					

- Router 4

Routing Table for Router4

Туре	Network	Port	Next Hop IP	Metric
s	199.34.56.0/28		199.34.56.113	1/0
s	199.34.56.16/28		199.34.56.113	1/0
С	199.34.56.32/28	FastEthernet1/0		0/0
s	199.34.56.48/28		199.34.56.113	1/0
s	199.34.56.48/28		199.34.56.1	1/0
s	199.34.56.64/28	-	199.34.56.113	1/0
s	199.34.56.64/28	_	199.34.56.1	1/0
s	199.34.56.80/28		199.34.56.113	1/0
С	199.34.56.112/28	FastEthernet0/0		0/0

g. Topologi



B. Tugas

1. Diketahui terdapat sebuah topologi jaringan yang akan dibagi menjadi 8 bagian yang sama besar seperti yang tampak pada gambar berikut.

"Bagian tugas untuk saat ini ditangguhkan sampai saya menjelaskan proses subnetting pada pertemuan tatap muka di kelas teori. Jadi laporan hanya berisi bagian praktik"