Tugas PRE UAS Konsep Jaringan



Dosen pengampu:

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MENYETING DISTRIBUTIOBN ROUTER 2

1. Menyalakan interface fisik FastEthernet0/0

```
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int fa0/0
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
```

2. Menyalakan subinterface FastEthernet0/0.100

```
Router(config-if)#int fa0/0.100
Router(config-subif)#
%LINK-5-CHANGED: Interface FastEthernet0/0.100, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.100, changed state to up
Router(config-subif)#enc
Router(config-subif)#encapsulation dot
Router(config-subif)#encapsulation dot1Q 100
Router(config-subif)#ip add 192.168.1.1 255.255.255.0
Router(config-subif)#ex
```

3. Menyalakan subinterface FastEthernet0/0.200

```
Router(config) #int fa0/0.200
Router(config-subif) #
%LINK-5-CHANGED: Interface FastEthernet0/0.200, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.200, changed state to up
Router(config-subif) #en
Router(config-subif) #encapsulation dot
Router(config-subif) #encapsulation dot1Q 200
Router(config-subif) #ip add 192.168.2.1 255.255.255.0
Router(config-subif) #ex
```

4. Menyalakan subinterface FastEthernet0/0.300

```
Router(config) #int fa0/0.300
Router(config-subif) #
%LINK-5-CHANGED: Interface FastEthernet0/0.300, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.300, changed state to up
Router(config-subif) #enc
Router(config-subif) #encapsulation dot
Router(config-subif) #encapsulation dot1Q 300
Router(config-subif) #ip add 192.168.3.1 255.255.255.0
Router(config-subif) #ex
```

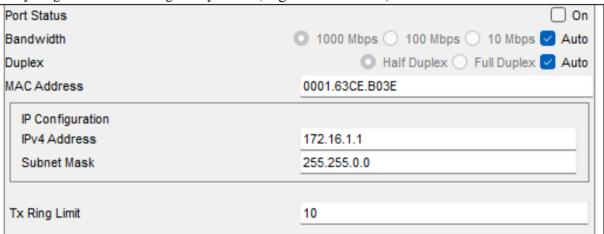
5. Menyalakan subinterface FastEthernet0/0.400

```
Router(config) #int fa0/0.400
Router(config-subif) #
%LINK-5-CHANGED: Interface FastEthernet0/0.400, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.400, changed state to up
Router(config-subif) #enc
Router(config-subif) #encapsulation dot
Router(config-subif) #encapsulation dot10 400
Router(config-subif) #ip add 192.168.4.1 255.255.255.0
Router(config-subif) #ex
```

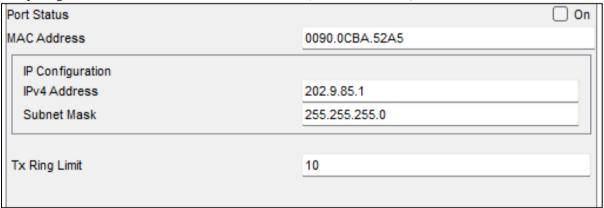
6. Menyimpan konfigurasi ke dalam memori

Router#write memory
Building configuration...
[OK]
Router#

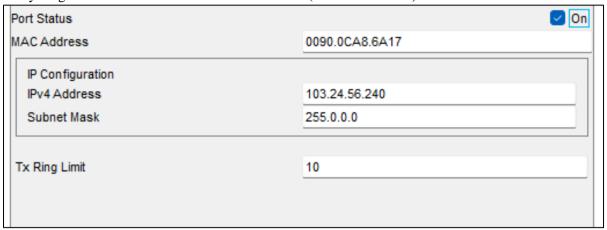
7. Menyeting IP address untuk gateway server (GigabitEthernet6/0)



8. Menyeting IP address untuk GW ROUTER ISP 2 (Fastethernet4/0)

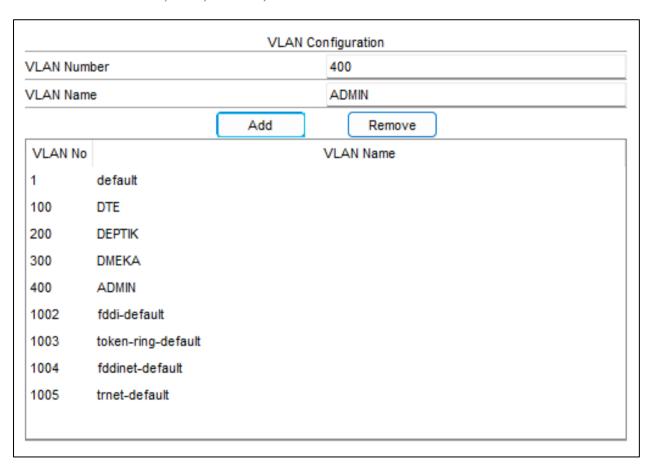


9. Menyeting IP address untuk GW ROUTER ISP 1 (Fastethernet5/0)



MENYETING VLAN

Tambahkan vlan DTE 100, DEPTK 200, DMEKA 300, dan ADMIN 400 pada switch DISTRIBUTION SW 2, DTE, DEPTK, dan DMEKA.



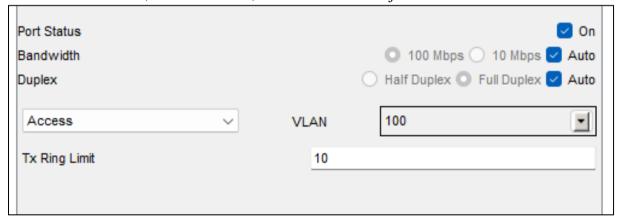
MENYETING SWITCH DISTRIBUTION SW 2

Ganti access Fastethernet0/1, GigabitEthernet6/1, GigabitEthernet7/1, GigabitEthernet8/1 ke trunk.

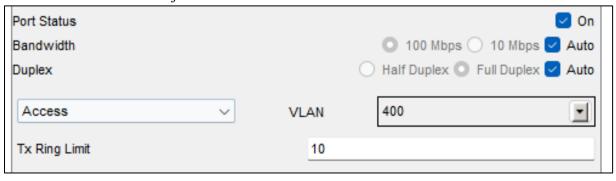


MENYETING SWITCH DTE

1. Ubah Fastethernet0/1, Fastethernet0/2, Fastethernet0/3 menjadi 100 atau DTE



2. Ubah Fastethernet0/4 menjadi 400 atau ADMIN

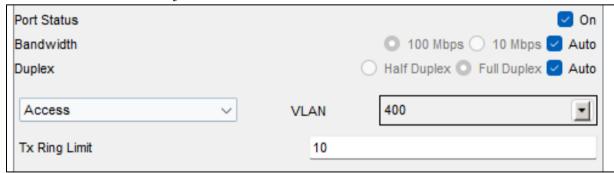


MENYETING SWITCH DEPTIK

1. Ubah Fastethernet0/1, Fastethernet0/2, Fastethernet0/3 menjadi 200 atau DEPTIK

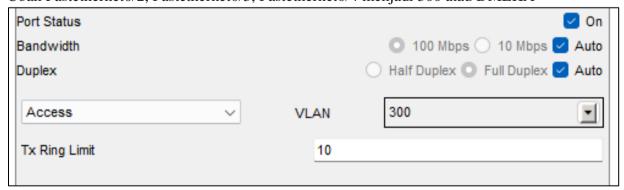


2. Ubah Fastethernet0/4 menjadi 400 atau ADMIN

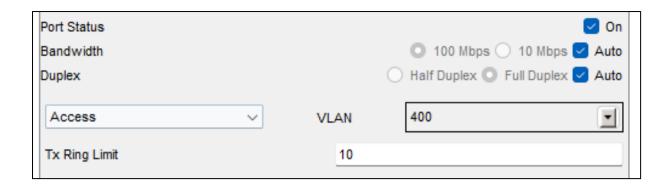


MENYETING SWITCH DMEKA

3. Ubah Fastethernet0/2, Fastethernet0/3, Fastethernet0/4 menjadi 300 atau DMEKA



4. Ubah Fastethernet0/5 menjadi 400 atau ADMIN



MENYETING PC

VLAN 100:

PC 0:

• IP: 192.168.1.2

• Gateway: 192.168.1.1

• DNS:172.16.1.2

PC 1:

• IP: 192.168.1.3

• Gateway: 192.168.1.1

• DNS:172.16.1.2

PC 2:

• IP: 192.168.1.4

• Gateway: 192.168.1.1

• DNS:172.16.1.2

VLAN 200:

PC 0:

• IP: 192.168.2.2

• Gateway:192.168.2.1

• DNS:172.16.1.2

PC 1:

• IP: 192.168.2.3

• Gateway:192.168.2.1

• DNS:172.16.1.2

PC 2:

• IP: 192.168.2.4

• Gateway:192.168.2.1

• DNS:172.16.1.2

VLAN 300:

PC 0:

- IP: 192.168.3.2
- Gateway:192.168.3.1
- DNS:172.16.1.2

PC 1:

- IP: 192.168.3.3
- Gateway:192.168.3.1
- DNS:172.16.1.2

PC 2:

- IP: 192.168.3.4
- Gateway:192.168.3.1
- DNS:172.16.1.2

VLAN 400:

ADMIN-DTE:

- IP: 192.168.4.2
- Gateway:192.168.4.1
- DNS:172.16.1.2

ADMIN-DEPTIK:

- IP: 192.168.4.3
- Gateway:192.168.4.1
- DNS:172.16.1.2

ADMIN-DMEKA:

- IP: 192.168.4.4
- Gateway:192.168.4.1
- DNS:172.16.1.2

MENGUJI ANTAR VLAN

1. VLAN 100 ke 200

```
C:\>ping 192.168.2.2

Pinging 192.168.2.2 with 32 bytes of data:

Request timed out.
Reply from 192.168.2.2: bytes=32 time<lms TTL=127
Reply from 192.168.2.2: bytes=32 time<lms TTL=127
Reply from 192.168.2.2: bytes=32 time=lms TTL=127

Ping statistics for 192.168.2.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms</pre>
```

2. VLAN 100 ke 300

```
C:\>ping 192.168.3.2

Pinging 192.168.3.2 with 32 bytes of data:

Request timed out.
Reply from 192.168.3.2: bytes=32 time<lms TTL=127
Reply from 192.168.3.2: bytes=32 time<lms TTL=127
Reply from 192.168.3.2: bytes=32 time<lms TTL=127

Ping statistics for 192.168.3.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms</pre>
```

3. VLAN 100 ke 400

```
C:\>ping 192.168.4.2

Pinging 192.168.4.2 with 32 bytes of data:

Request timed out.

Reply from 192.168.4.2: bytes=32 time<lms TTL=127

Reply from 192.168.4.2: bytes=32 time<lms TTL=127

Reply from 192.168.4.2: bytes=32 time<lms TTL=127

Ping statistics for 192.168.4.2:

Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

4. VLAN 200 ke 300

```
C:\>ping 192.168.3.2

Pinging 192.168.3.2 with 32 bytes of data:

Reply from 192.168.3.2: bytes=32 time<1ms TTL=127
Reply from 192.168.3.2: bytes=32 time<1ms TTL=127
Reply from 192.168.3.2: bytes=32 time=1ms TTL=127
Reply from 192.168.3.2: bytes=32 time=1ms TTL=127
Ping statistics for 192.168.3.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms</pre>
```

5. VLAN 200 ke 400

```
C:\>ping 192.168.4.2

Pinging 192.168.4.2 with 32 bytes of data:

Reply from 192.168.4.2: bytes=32 time<lms TTL=127

Reply from 192.168.4.2: bytes=32 time=lms TTL=127

Reply from 192.168.4.2: bytes=32 time<lms TTL=127

Reply from 192.168.4.2: bytes=32 time<lms TTL=127

Ping statistics for 192.168.4.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

6. VLAN 300 ke 400

```
C:\>ping 192.168.4.2

Pinging 192.168.4.2 with 32 bytes of data:

Reply from 192.168.4.2: bytes=32 time<lms TTL=127

Ping statistics for 192.168.4.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = Oms, Maximum = Oms, Average = Oms
```

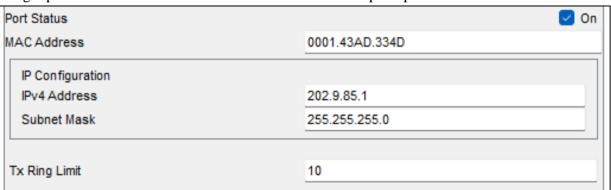
MENYETING ROUTER ISP 1

Lengkapi IP address untuk DISTRIBUTION ROUTER 2 pada port Fastethernet5/0

0 1	1 1	
Port Status		On
MAC Address	0009.7C01.6659	
IP Configuration		
IPv4 Address	103.24.56.240	
Subnet Mask	255.0.0.0	
Tx Ring Limit	10	

MENYETING ROUTER ISP 2

Lengkapi IP address untuk DISTRIBUTION ROUTER 2 pada port Fastethernet4/0



PENGUJIAN KE GW ROUTER ISP 1 DAN GW ROUTER ISP 2

1. VLAN 100 ke GW ROUTER ISP 1

```
C:\>ping 103.24.56.240

Pinging 103.24.56.240 with 32 bytes of data:

Reply from 103.24.56.240: bytes=32 time<1ms TTL=255

Ping statistics for 103.24.56.240:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms</pre>
```

2. VLAN 100 ke GW ROUTER ISP 2

```
C:\>ping 202.9.85.1

Pinging 202.9.85.1 with 32 bytes of data:

Reply from 202.9.85.1: bytes=32 time<lms TTL=255

Ping statistics for 202.9.85.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms</pre>
```

3. VLAN 200 ke GW ROUTER ISP 1

```
C:\>ping 103.24.56.240

Pinging 103.24.56.240 with 32 bytes of data:

Reply from 103.24.56.240: bytes=32 time<1ms TTL=255

Ping statistics for 103.24.56.240:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms</pre>
```

4 VLAN 200 ke GW ROUTER ISP 2

```
C:\>ping 202.9.85.1

Pinging 202.9.85.1 with 32 bytes of data:

Reply from 202.9.85.1: bytes=32 time<lms TTL=255

Ping statistics for 202.9.85.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms</pre>
```

5. VLAN 300 ke GW ROUTER ISP 1

```
C:\>ping 103.24.56.240

Pinging 103.24.56.240 with 32 bytes of data:

Reply from 103.24.56.240: bytes=32 time<1ms TTL=255
Reply from 103.24.56.240: bytes=32 time<1ms TTL=255
Reply from 103.24.56.240: bytes=32 time=1ms TTL=255
Reply from 103.24.56.240: bytes=32 time<1ms TTL=255
Reply from 103.24.56.240: bytes=32 time<1ms TTL=255

Ping statistics for 103.24.56.240:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms</pre>
```

6. VLAN 300 ke GW ROUTER ISP 2

```
C:\>ping 202.9.85.1

Pinging 202.9.85.1 with 32 bytes of data:

Reply from 202.9.85.1: bytes=32 time<lms TTL=255
Ping statistics for 202.9.85.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms</pre>
```

7. VLAN 400 ke GW ROUTER ISP 1

```
C:\>ping 103.24.56.240

Pinging 103.24.56.240 with 32 bytes of data:

Reply from 103.24.56.240: bytes=32 time<1ms TTL=255
Ping statistics for 103.24.56.240:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms</pre>
```

8. VLAN 400 ke GW ROUTER ISP 2

```
C:\>ping 202.9.85.1

Pinging 202.9.85.1 with 32 bytes of data:

Reply from 202.9.85.1: bytes=32 time<1ms TTL=255

Ping statistics for 202.9.85.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

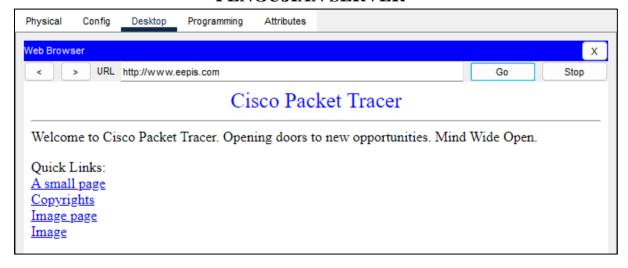
Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

MEMBUAT SERVICE DENGAN IP ADDRESS 172.16.1.2

karena saat melakukan konfigurasi pada pc kita memasukkan 172.16.1.2 (server sebagai penampil www) maka dari itu kita membuat website dengan ip address 172.16.1.2

DNS				
DNS Servi	ce	On	Off	
Resource	Records			
Name			Type A Record V	
Address				
	Add	Save	Remove	
No.	Name	Туре	Detail	
0	www.eepis.com	A Record	172.16.1.2	

PENGUJIAN SERVER



HASIL AKHIR SYSTEM JARINGAN

