Nama : REZA MIFTAHUL RIZKI

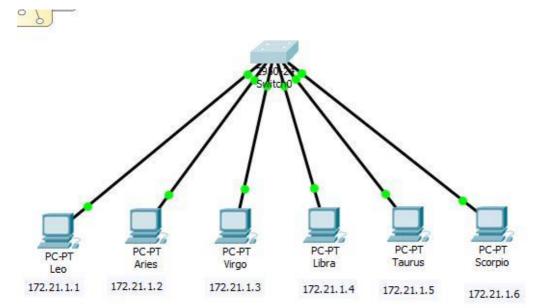
NIM : L200170108

Kelas : C

Modul: 4

Kegiatan 1.

1. Rancangan jaringan



2. Membuat vlan dengan nama zodiak1, zodiak2, dan zodiak3

Switch>enable
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config) #vlan 10
Switch(config-vlan) #name zodiak1
Switch(config-vlan) #exit
Switch(config-vlan) #name zodiak2
Switch(config-vlan) #name zodiak2
Switch(config-vlan) #exit
Switch(config-vlan) #exit
Switch(config-vlan) #name zodiak3
Switch(config-vlan) #name zodiak3
Switch(config) #

- 3. Konfigurasi port untuk masing-masing pc ke vlan
- a. untuk zodiak1 = leo(port 0/1) dan libra(port 0/4)

```
Switch(config) #int fa 0/1
Switch(config-if) #switchport mode access
Switch(config-if) #switchport access vlan 10
Switch(config-if) #int fa 0/4
Switch(config-if) #switchport mode access
Switch(config-if) #switchport access vlan 10
Switch(config-if) #switchport access vlan 10
```

b. untuk zodiak2 = aries (port 0/2) dan taurus (port 0/5)

```
Switch(config) #int fa 0/2
Switch(config-if) #switchport mode access
Switch(config-if) #switchport access vlan 20
Switch(config-if) #int fa 0/5
Switch(config-if) #switchport mode access
Switch(config-if) #switchport access vlan 20
Switch(config-if) #switchport access vlan 20
```

c. untuk zodiak3 = virgo (port 0/3) dan scorpio (port 0/6)

```
Switch(config) #int fa 0/3
Switch(config-if) #switchport mode access
Switch(config-if) #switchport access vlan 30
Switch(config-if) #int fa 0/6
Switch(config-if) #switchport mode access
Switch(config-if) #switchport access vlan 30
Switch(config-if) #exit
```

- 4. Melihat hasil
- a. melihat informasi vlan secara keseruhan

```
Switch#show vlan brief
 VLAN Name
                                        Status
                                                   Ports
      default
                                                   Fa0/7, Fa0/8, Fa0/9, Fa0/10
                                                   Fa0/11, Fa0/12, Fa0/13, Fa0/14
Fa0/15, Fa0/16, Fa0/17, Fa0/18
                                                   Fa0/19, Fa0/20, Fa0/21, Fa0/22
                                                   Fa0/23, Fa0/24
    zodiak1
                                                   Fa0/1, Fa0/4
10
                                        active
    zodiak2
20
                                        active
                                                   Fa0/2, Fa0/5
30
     zodiak3
                                                   Fa0/3, Fa0/6
1002 fddi-default
                                        active
1003 token-ring-default
                                        active
1004 fddinet-default
                                        active
1005 trnet-default
                                        active
```

b. melihat vlan id 10

c. melihat vlan id 20

20 2	zodia									
		(2)			act:	ive F	a0/2,	Fa0/5		
/LAN I	Type	SAID	MTU	Parent	RingNo	BridgeN	o Stp	BrdgMode	Trans1	Trans2

d. melihat vlan id 30

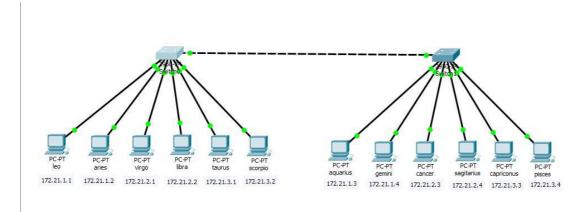
Switch#show vlan id 30

VLAN	Name					tus 1	Ports					
30	zodia	k3			act	ive :	Fa0/3, Fa0/6					
VLAN	Туре	SAID	MTU	Parent	RingNo	Bridgel	No Stp	BrdgMode	Transl	Trans2		
30	enet	100030	1500			9	_	-	0	0		

No.	Variabel		Nilai	
1	Nomor Vlan	10	20	30
2	Nama Vlan	zodiak1	zodiak2	zodiak3
3	Port	0/1, 0/4	0/2, 0/5	0/3, 0/6
4	Status	Active	Active	Active

Kegiatan 2

1. Rancangan jaringan



2. Membuat vlan dengan nama zodiak1, zodiak2, dan zodiak3

```
Switch>enable
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#vlan 10
Switch(config-vlan)#name zodiak1
Switch(config-vlan)#exit
Switch(config)#vlan 20
Switch(config-vlan)#name zodiak2
Switch(config-vlan)#exit
Switch(config-vlan)#exit
Switch(config-vlan)#name zodiak3
Switch(config-vlan)#name zodiak3
Switch(config-vlan)#exit
Switch(config)#
```

- 3. Konfigurasi port untuk masing-masing pc ke vlan
- a. untuk zodiak1 = leo (port 0/1) dan aries (port 0/4)

```
Switch(config) #int fa 0/1
Switch(config-if) #switchport mode access
Switch(config-if) #switchport access vlan 10
Switch(config-if) #int fa 0/4
Switch(config-if) #switchport mode access
Switch(config-if) #switchport access vlan 10
Switch(config-if) #switchport access vlan 10
Switch(config-if) #exit
```

b. untuk zodiak2 = virgo (port 0/2) dan libra (port 0/5)

```
Switch(config) #int fa 0/2
Switch(config-if) #switchport mode access
Switch(config-if) #switchport access vlan 20
Switch(config-if) #int fa 0/5
Switch(config-if) #switchport mode access
Switch(config-if) #switchport access vlan 20
Switch(config-if) #exit
```

c. untuk zodiak3 = taurus (port 0/3) dan scorpio (port 0/6)

```
Switch (config) #int fa 0/3
Switch (config-if) #switchport mode access
Switch (config-if) #switchport access vlan 30
Switch (config-if) #int fa 0/6
Switch (config-if) #switchport mode access
Switch (config-if) #switchport access vlan 30
Switch (config-if) #exit
```

4. Melakukan konfigurasi trunk pada port 0/7

```
Switch(config) #int fa 0/7
Switch(config-if) #switchport mode trunk
Switch(config-if) #exit
```

5. Hasilnya

```
Switch#show int fa 0/7 switchport
Name: Fa0/7
Switchport: Enabled
Administrative Mode: trunk
Operational Mode: trunk
Administrative Trunking Encapsulation: dot1q
Operational Trunking Encapsulation: dot1q
Negotiation of Trunking: On
Access Mode VLAN: 1 (default)
Trunking Native Mode VLAN: 1 (default)
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none
Administrative private-vlan trunk native VLAN: none
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk private VLANs: none
Operational private-vlan: none
Trunking VLANs Enabled: All
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL
Protected: false
Appliance trust: none
```

```
Switch#show int trunk
                                   Trunking 1
                      Encapsulation Status
Port
       Mode
Fa0/7
                      802.1q
          Vlans allowed on trunk
Port
Fa0/7
          1-1005
Port
          Vlans allowed and active in management domain
Fa0/7
          1,10,20,30
          Vlans in spanning tree forwarding state and not pruned
Fa0/7
          1,10,20,30
```

VLAN Name						tus Po	Ports				
1	default					ive Fa	Fa0/8, Fa0/9, Fa0/10, Fa0/11				
						Fa	0/12,	Fa0/13,	Fa0/14,	Fa0/15	
						Fa	0/16,	Fa0/17,	Fa0/18,	Fa0/19	
						Fa	0/20,	Fa0/21,	Fa0/22,	Fa0/23	
						Fa	0/24				
10	zodia	k1			act	ive Fa	0/1,	Fa0/4			
20	zodiak2					ive Fa	0/2,	Fa0/5			
30	zodia	k3				ive Fa					
1002	fddi-	default			act	ive					
1003	token	-ring-defa	ault		act	ive					
1004	fddin	et-default	t i		act:	ive					
1005	trnet-default					ive					
VLAN	Туре	SAID				BridgeNo	Stp	BrdgMode	Trans1	Trans2	
1	enet	100001							0	0	
10	enet	100010	1500	-	, , - ,		ı . -	-	0	0	
		100020				-		· _	0	0	
200	Marie	100030	1500						0	0	

Tugas 7A: Untuk port 0/7 pada switch 0 telah disetting untuk trunk dan berhasil. Sehingga port 0/7 tidak tersedia untuk vlan.

6. Melakukan ping dari leo ke pisces

Tugas 8A: Hasilnya adalah RTO karena berada pada jaringan yang berbeda dan pada switch 1 belum disetting trunk

7. Melakukan konfigurasi trunk pada switch 1

```
Switch(config) #int fa 0/7
Switch(config-if) #switchport mode trunk
Switch(config-if) #exit
```

Tugas 10A: Berhubung udah dikerjain di kelas dan ngga aku sc mas, jadinya hasilnya konfigurasi vlan yang udah jadi. Yang harusnya int fa 0/7 masih tersedia sebagai vlan.

8. Konfigurasi vlan

a. zodiak1: aquarius (port 0/1) dan gemini (port 0/2)

```
Switch(config) #int fa 0/1
Switch(config-if) #switchport mode access
Switch(config-if) #switchport access vlan 10
Switch(config-if) #int fa 0/2
Switch(config-if) #switchport mode access
Switch(config-if) #switchport access vlan 10
Switch(config-if) #exit
```

b. zodiak2: cancer (port 0/3) dan sagitarius (port 0/4)

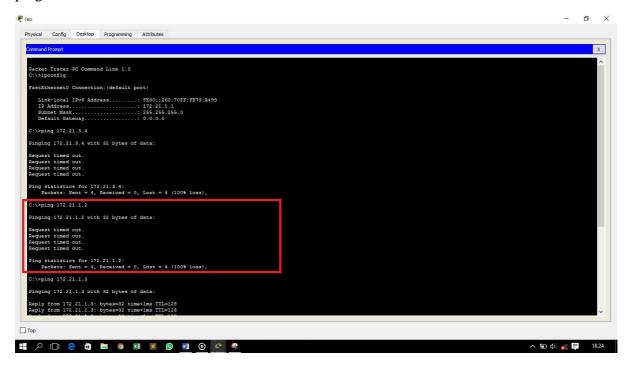
```
Switch(config) #int fa 0/3
Switch(config-if) #switchport mode access
Switch(config-if) #switchport access vlan 20
Switch(config-if) #int fa 0/4
Switch(config-if) #switchport mode access
Switch(config-if) #switchport access vlan 20
Switch(config-if) #exit
```

c. zodiak 1: capriconus (port 0/5) dan pisces (port 0/6)

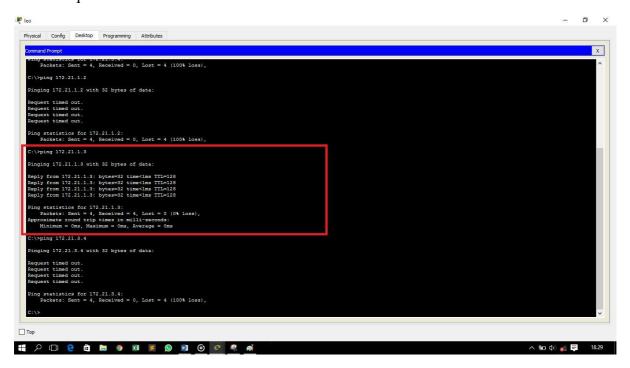
```
Switch(config) #int fa 0/5
Switch(config-if) #switchport mode access
Switch(config-if) #switchport access vlan 30
Switch(config-if) #int fa 0/6
Switch(config-if) #switchport mode access
Switch(config-if) #switchport access vlan 30
Switch(config-if) #exit
```

9. Melakukan

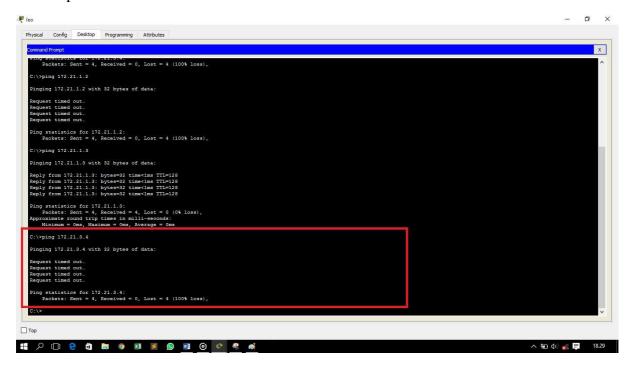
ping a. leo – aries



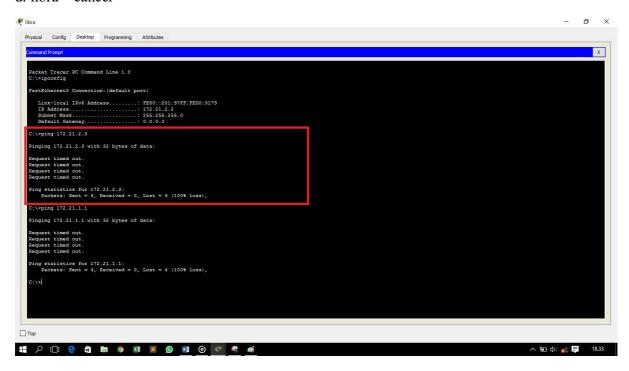
b. leo – aquarius



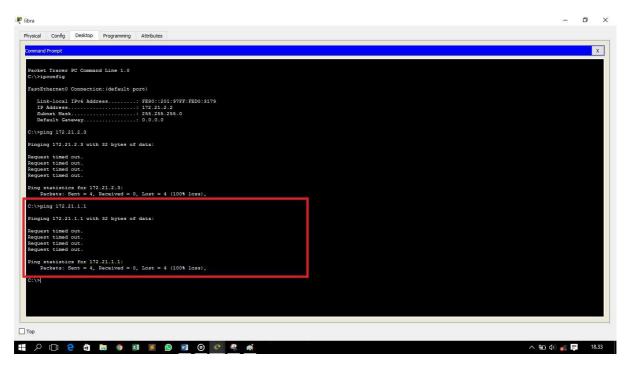
c. leo – pisces



d. libra - cancer



e. libra – leo



Tugas 12A:

Dari hasil yang diperoleh. Bahwa akan mendapatkan hasil reply apabila pc berada pada jaringan dan vlan yang sama. Apabila hanya sama dari salah satu vlan atau jaringan maka hasilnya juga akan RTO.