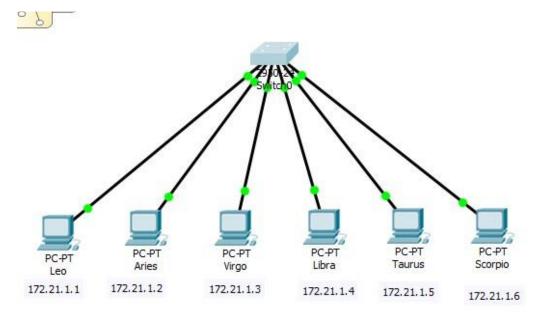
Nama : Herda Pundhi Saputra.

NIM : L200174033

Kelas : X

# 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)#name zodiak3
Switch(config-vlan)#name zodiak3
Switch(config-vlan)#exit
Switch(config-vlan)#exit
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
Switch (config-if) #exit
```

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) #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
                                         active Fa0/7, Fa0/8, Fa0/9, Fa0/10
   default
                                                    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
10 zodiak1
20 zodiak2
30 zodiak3
                                       active Fa0/1, Fa0/4
                                       active
active
                                                  Fa0/2, Fa0/5
Fa0/3, Fa0/6
1002 fddi-default
                                        active
1003 token-ring-default
                                        active
active
1004 fddinet-default
1005 trnet-default
                                         active
```

#### b. melihat vlan id 10

c. melihat vlan id 20

d. melihat vlan id 30

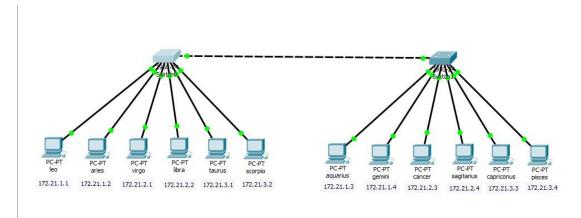
#### Switch#show vlan id 30

VLAN	Name zodiak3				Sta	Status Ports				
30					act	ive F	Fa0/3, Fa0/6			
VLAN	Type	SAID	MTU	Parent	RingNo	BridgeN	Stp	BrdgMode	Trans1	Trans2
30	enet	100030	1500	-	-	$\omega$	-	-	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)#exit
Switch(config-vlan)#name zodiak2
Switch(config-vlan)#exit
Switch(config-vlan)#exit
Switch(config-vlan)#exit
Switch(config-vlan)#exit
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) #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) #switchport access vlan 20
```

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) #switchport access vlan 30
```

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: dot1g 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

Encapsulation Status Native vlan 802.1q trunking 1 Port Mode

Fa0/7

Vlans allowed on trunk Port.

Fa0/7 1-1005

Port Vlans allowed and active in management domain

1,10,20,30 Fa0/7

Vlans in spanning tree forwarding state and not pruned

Fa0/7 1,10,20,30

#### Switch#show vlan

VLAN	Name				Sta	tus P	Ports					
1	default				act:	ive F	Fa0/8, Fa0/9, Fa0/10, Fa0/11					
						F	a0/12,	Fa0/13,	Fa0/14,	Fa0/15		
						F	a0/16,	Fa0/17,	Fa0/18,	Fa0/19		
						F	a0/20,	Fa0/21,	Fa0/22,	Fa0/23		
						F	a0/24					
10	zodiak1				act:	ive F	Fa0/1, Fa0/4					
20	zodiak2				act:	ive F	Fa0/2, Fa0/5					
30	zodiak3				act:	ive F	Fa0/3, Fa0/6					
1002	fddi-default				act	ive	e					
1003	token-ring-default				act:	ive						
1004	fddinet-default				act:	active						
1005	trnet-default					actíve						
VLAN	Type	SAID	MTU	Parent	RingNo	BridgeN	o Stp	BrdgMode	Trans1	Trans2		
1	enet	100001	1500	47	-	-	-	84	0	0		
10	enet	100010	1500	-	<del></del>	<del></del>	-	-	0	0		
20	enet	100020	1500	-	S=81	-	S-7-83	<del>-</del>	0	0		
30	enet	100030	1500	2	<u>-</u> 2	7 <u></u> -	120	7. <u>2.</u>	0	0		
Mc	ore											

# 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

```
P leo
                                                                                                                                                        X
                                                                                                                                               Physical Config Desktop Programming
   Command Prompt
                                                                                                                                                   Х
   Packet Tracer PC Command Line 1.0 C:\>ipconfig
    FastEthernet0 Connection: (default port)
        Link-local IPv6 Address : FE80::260:70FF:FE73:A499
IP Address : 172.21.1.1
Subnet Mask : 255.255.255.0
Default Gateway : 0.0.0.0
    C:\>ping 172.21.3.4
    Pinging 172.21.3.4 with 32 bytes of data:
    Request timed out.
Request timed out.
Request timed out.
    Ping statistics for 172.21.3.4:
         Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
    C:\>
□ Тор
```

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

```
Project Config Dealths Programming Attributes

Command Frompt.

Packets: Bant = 4, Benetived = 0, Lost = 4 (100% loss),
Chiyang 172.21.1.2 with 32 bytes of data:

Pagaset timed out.

Pag
```

# c. leo – pisces

```
Proced Config Dealtop Programming Attributes

Commandifrompt

Tabeleses: Sent = 4, Sentived = 0, Lose = 4 (100% loss),
Compandifrompt

Tabeleses: Sent = 4, Sentived = 0, Lose = 4 (100% loss),
Compandifrompt

Tabeleses: Sent = 4, Sentived = 0, Lose = 4 (100% loss),
Compandifrompt

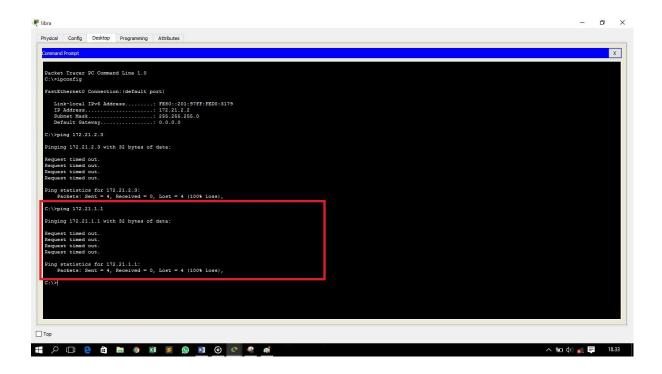
Tabeleses: Sent = 4, Sentived = 0, Lose = 4 (100% loss),
Senting 172.21.1.2 with 32 bytes of date:

Senting 172.21.1.3 with 32 bytes of date:
Sent = 4, Sentived = 0, Lose = 4 (100% loss),
Compandifrompt

This precision for 172.21.1.3 bytes of date:
Spain from 172.21.3.4 bytes of date:
Spain from 172.21.3.5 bytes of date:
```

#### 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.