NAMA: WINDI SAPUTRI

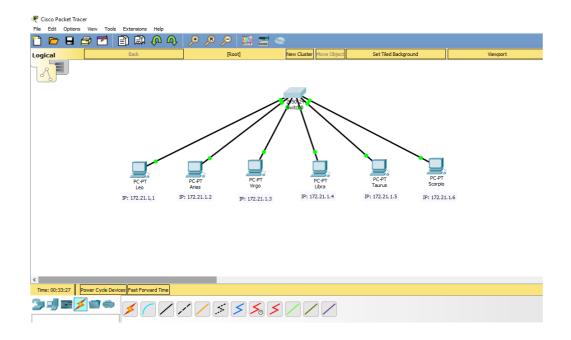
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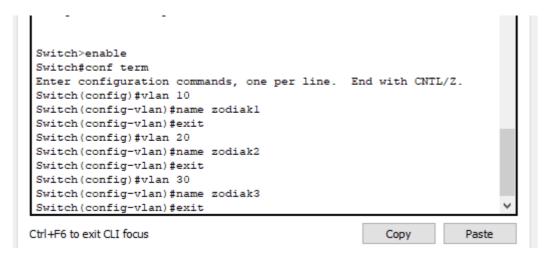
MODUL 4

Kegiatan 1.

1. Rancangan jaringan



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



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

```
Switch(config) #interface FastEthernet0/1
Switch(config-if) #
Switch(config-if) #
Switch(config-if) #
Switch(config-if) #switchport access vlan 10
Switch(config-if) #
Switch(config-if) #
Switch(config-if) #exit
Switch(config-if) #
Switch(config-if) #
Switch(config-if) #
Switch(config-if) #switchport access vlan 20
Switch(config-if) #
Switch(config-if) #
Switch(config-if) #
Switch(config-if) #
Switch(config-if) #
Switch(config-if) #switchport access vlan 10
Switch(config-if) #
Switch(config-if) #
Switch(config-if) #exit
```

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

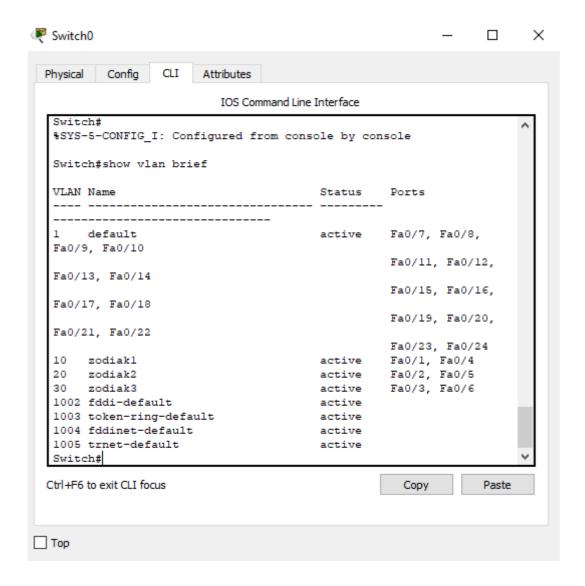
```
Switch(config) #interface FastEthernet0/2
Switch(config-if) #
Switch(config-if) #
Switch(config-if) #switchport access vlan 20
Switch(config-if) #
Switch(config-if) #exit
Switch(config-if) #exit
Switch(config-if) #
Switch(config-if) #exit
```

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

```
Switch(config) #interface FastEthernet0/3
Switch(config-if) #
Switch(config-if) #
Switch(config-if) #switchport access vlan 30
Switch(config-if) #
Switch(config-if) #exit
Switch(config) #interface FastEthernet0/6
Switch(config-if) #
Switch(config-if) #
Switch(config-if) #
Switch(config-if) #switchport access vlan 30
Switch(config-if) #
```

4. Melihat hasil

I. melihat informasi vlan secara keseruhan



II. melihat vlan id 10

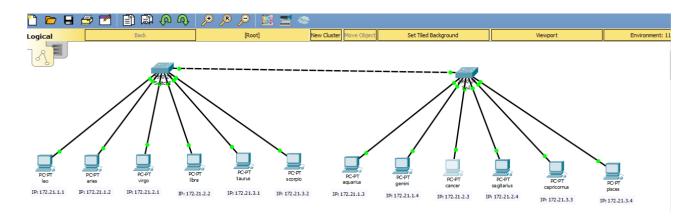
III. melihat vlan id 20

IV. melihat vlan id 30

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(config) #vlan 10
Switch(config-vlan) #name zodiakl
Switch(config-vlan) #exit
Switch(config) #vlan 20
Switch(config-vlan) #name zodiak2
Switch(config-vlan) #exit
Switch(config) #vlan 30
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

I. untuk zodiak1 = leo (port 0/1) dan aries (port 0/4)

```
Switch(config) #interface FastEthernet0/1
Switch(config-if) #
Switch(config-if) #
Switch(config-if) #switchport access vlan 10
Switch(config-if) #
Switch(config-if) #exit
Switch(config-if) #interface FastEthernet0/4
Switch(config-if) #
Switch(config-if) #exit
```

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

```
Switch(config) #interface FastEthernet0/2
Switch(config-if) #
Switch(config-if) #
Switch(config-if) #switchport access vlan 20
Switch(config-if) #
Switch(config-if) #exit
Switch(config-if) #exit
Switch(config-if) #
Switch(config-if) #exit
```

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

```
Switch(config-if) # Switch
```

Ctrl+F6 to exit CLI focus

4. Melakukan konfigurasi trunk pada port 0/24

```
Switch(config-if) #exit
Switch(config) #interface fa 0/24
Switch(config-if) #switchport mode trunk
Switch(config-if) #exit
Switch(config) #
```

5. Hasil

Switch#show int fa 0/24 switchport Name: Fa0/24 Switchport: Enabled Administrative Mode: trunk Operational Mode: trunk Administrative Trunking Encapsulation: dotlq Operational Trunking Encapsulation: dotlq 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: dotlq 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# Switch#show int trunk Encapsulation Status Native vlan 802.1q trunking 1 Port Mode Fa0/24 on Vlans allowed on trunk Fa0/24 1-1005 Vlans allowed and active in management domain Port 1,10,20,30 Fa0/24 Port Vlans in spanning tree forwarding state and not pruned Fa0/24 1,10,20,30 Switch#

VLAN Name				Status		Ports				
1	default						Fa0/7, Fa0/8, Fa0/9, Fa0/10			
								Fa0/12,		
								Fa0/16,		
								Fa0/20,	Fa0/21,	Fa0/22
						E	a0/23			
10	zodia	k1			act:	ive E	@a0/1,	Fa0/4		
20	zodiak2				active Fa0/2, Fa0/5					
30	zodiak3				act:	ive E	Ta0/3,	Fa0/6		
1002	fddi-default				act:	ive				
1003	token-ring-default fddinet-default				act:	active				
1004					act:	active				
1005	trnet	-default			act:	ive				
VLAN	Туре	SAID	MTU	Parent	RingNo	BridgeN	lo Stp	BrdgMode	Transl	Trans2
1	enet	100001	1500	-	-	-	-	-	0	0
10	enet	100010	1500	-	-	-	-	_	0	0
20	enet	100020	1500	-	-	-	-	_	0	0
		100030	1500						0	0

Tugas 7A: Untuk port 0/24 pada switch 0 sudah disetting untuk trunk dan berhasil. Sehingga port 0/24 tidak tersedia untuk vlan.

6. Melakukan ping dari leo ke pisces

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

7. Melakukan konfigurasi trunk pada switch 1

```
Switch(config-if) #exit
Switch(config) #interface fa 0/24
Switch(config-if) #switchport mode trunk
Switch(config-if) #exit
Switch(config) #
```

Tugas 10A: Hasilnya Yang harusnya int fa 0/24 masih tersedia sebagai vlan.

VLAN Name						tus Po:						
		default						Fa0/1, Fa0/2, Fa0/3, Fa0/4				
						Fa		Fa0/5, Fa0/6, Fa0/7, Fa0/8				
						Fa	0/9,	Fa0/10, Fa	a0/11, 1	Fa0/12		
						Fa	0/13,	Fa0/14,	Fa0/15,	Fa0/16		
						Fa	0/17,	Fa0/18, 1	Fa0/19,	Fa0/20		
						Fa	0/21,	Fa0/22, 1	Fa0/23			
1002	fddi-	default			act:	ive						
1003	token-	-ring-defa	act:	ive								
1004	fddin	et-default	t		act	ive						
	05 trnet-default					active						
1005	trnet	-default			act	ive						
			MTU	Parent			Stp	BrdgMode	Transl	Trans		
/LAN	Type	SAID			RingNo			BrdgMode				
/LAN	Type enet	SAID 	1500		RingNo	BridgeNo			0			
/LAN	Type enet fddi	SAID 	1500 1500	 - -	RingNo	BridgeNo	-		0 0	0 0		
/LAN	Type enet fddi tr	SAID 100001 101002	1500 1500 1500	 - - -	RingNo - -	BridgeNo	 - - -	 - -	0 0 0 0	0 0 0		
7LAN L 1002 1003	Type enet fddi tr fdnet	SAID 100001 101002 101003	1500 1500 1500 1500	 - - - -	RingNo - - -	BridgeNo	 - - ieee	 - - -	0 0 0 0	0 0 0		

Ctrl+F6 to exit CLI focus

8. Konfigurasi vlan

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

```
Switch(config) #interface FastEthernet0/1
Switch(config-if) #
Switch(config-if) #
Switch(config-if) #switchport access vlan 10
Switch(config-if) #
Switch(config-if) #exit
Switch(config) #interface FastEthernet0/2
Switch(config-if) #
Switch(config-if) #
Switch(config-if) #
Switch(config-if) #switchport access vlan 10
Switch(config-if) #
Switch(config-if) #
Switch(config-if) #exit
```

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

```
Switch(config) #interface FastEthernet0/3
Switch(config-if) #
Switch(config-if) #
Switch(config-if) #switchport access vlan 20
Switch(config-if) #
Switch(config-if) #exit
Switch(config-if) #exit
Switch(config-if) #
Switch(config-if) #
Switch(config-if) #
Switch(config-if) #
Switch(config-if) #switchport access vlan 20
Switch(config-if) #
```

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

```
Switch(config) #interface FastEthernet0/5
Switch(config-if) #
Switch(config-if) #
Switch(config-if) #switchport access vlan 30
Switch(config-if) #
Switch(config-if) #exit
Switch(config-if) #exit
Switch(config-if) #
Switch(config-if) #
Switch(config-if) #
Switch(config-if) #
Switch(config-if) #switchport access vlan 30
Switch(config-if) #
```

9. Melakukan ping

I. leo ke aries

```
🥊 leo
                                                                                                                                       Physical Config Desktop Programming Attributes
                                                                                                                                               Х
   Command Prompt
       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.
Request timed out.
   Ping statistics for 172.21.3.4:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
   C:\>ping 172.21.1.2
   Pinging 172.21.1.2 with 32 bytes of data:
   Request timed out.
   Request timed out.
Request timed out.
Request timed out.
   Ping statistics for 172.21.1.2:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
□ Тор
```

II. leo ke aquarius

```
Physical Config Desktop Programming Attributes

Command Prompt

X

Packet Tracer PC Command Line 1.0
C:\>ping 172.21.1.3

Pinging 172.21.1.3 with 32 bytes of data:

Reply from 172.21.1.3: bytes=32 time<lms TTL=128

Ping statistics for 172.21.1.3:

Packets: Sent = 4, Received = 4, Lost = 0 (0\(\frac{1}{2}\) loss),
Approximate round trip times in milli-seconds:

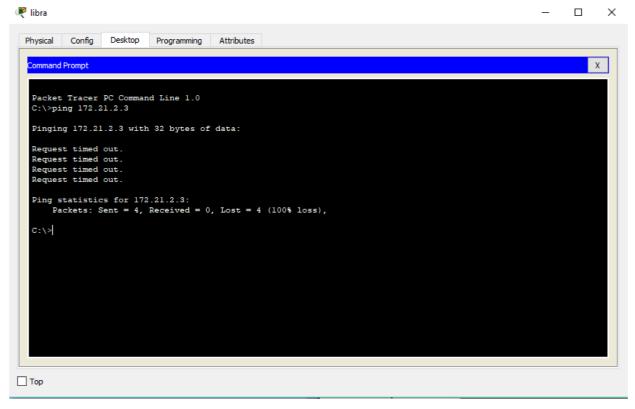
Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

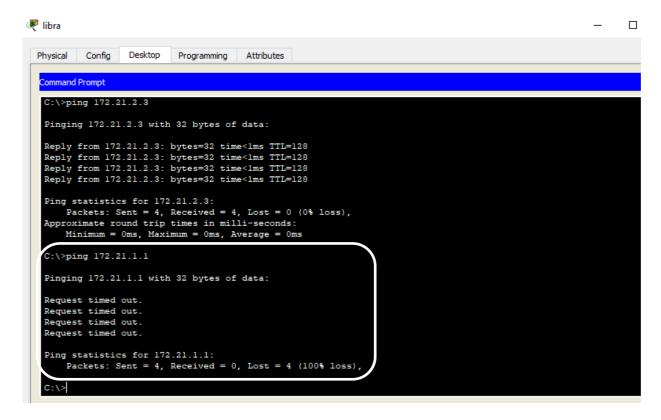
III. leo ke pisces

```
<page-header> leo
                                                                                                                                                                                                Physical Config Desktop Programming Attributes
   Command Prompt
                                                                                                                                                                                                      X
    C:\>ping 172.21.1.3
    Pinging 172.21.1.3 with 32 bytes of data:
    Reply from 172.21.1.3: bytes=32 time<1ms TTL=128 Reply from 172.21.1.3: bytes=32 time<1ms TTL=128 Reply from 172.21.1.3: bytes=32 time<1ms TTL=128 Reply from 172.21.1.3: bytes=32 time<1ms TTL=128
    Ping statistics for 172.21.1.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
      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.
Request timed out.
    Ping statistics for 172.21.3.4:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
    C:\>
Тор
```

IV. libra ke cancer



V. libra ke leo



Tugas 12A:

Hasilnya bisa menjadi Reply jika PC berada pada jaringan dan vlan yang sama. Jika hanya sama dari salah satu vlan atau jaringan maka hasilnya akan Request Time Out.