MODUL 4 PRAKTIKUM JARINGAN KOMPUTER

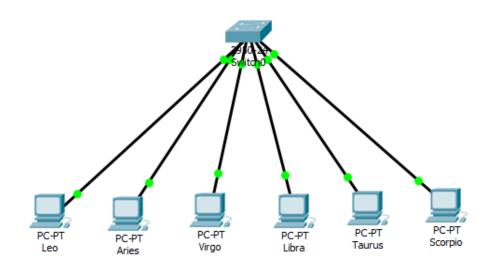
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Kelas : D

Modul: 4

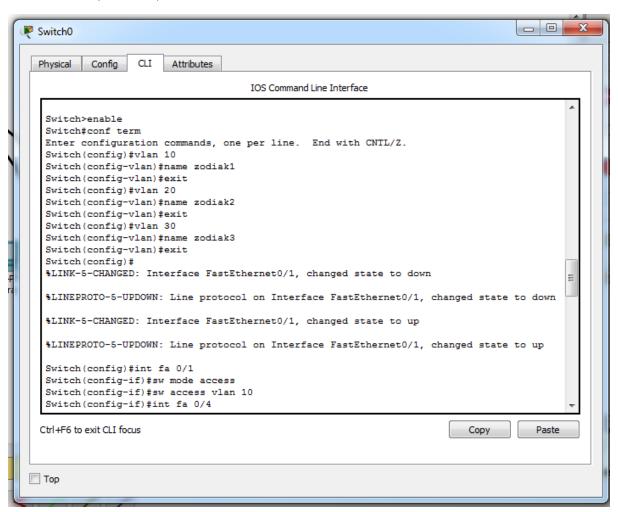
Kegiatan 1. Topologi



Konfigurasi alamat IP:

Leo : 172.21.1.1/24
Aries : 172.21.1.2/24
Virgo : 172.21.1.3/24
Libra : 172.21.1.4/24
Taurus : 172.21.1.5/24
Virgo : 172.21.1.6/24

Konfigurasi pada switch dengan mode user atau mode privilaged, membuat 3 VLAN dengan nama zodiak1, zodiak2, zodiak3:



Konfigurasi port-port switch ke dalam VLAN zodiak1, zodiak2, zodiak3 dengan anggota sebagai berikut:

zodiak1 : Leo dan Libra
zodiak2 : Aries dan Taurus
zodiak3 : Virgo dan Scorpio

Switch(config) #int fa 0/2 Switch(config-if) #sw mode access Switch(config-if) #switchport access vlan 10 Switch(config-if) #int fa 0/2 Switch(config-if) #sw mode access Switch(config-if) #switchport access vlan 10 Switch(config-if) #int fa 0/5 Switch(config-if) #sw mode access Switch(config-if) #switchport access vlan 10 Switch(config-if)#int fa 0/3 Switch(config-if) #sw mode access Switch(config-if) #switchport access vlan 20 Switch(config-if) #int fa 0/6 Switch(config-if) #sw mode access Switch(config-if) #switchport access vlan 20 Switch(config-if) #int fa 0/4 Switch(config-if) #sw mode access Switch(config-if) #switchport access vlan 30 Switch(config-if) #int fa 0/7 Switch(config-if) #sw mode access Switch(config-if) #switchport access vlan 30 Switch(config-if) #exit Switch(config) #exit

Melihat konfigurasi VLAN yang telah dibuat:

show vlan brief

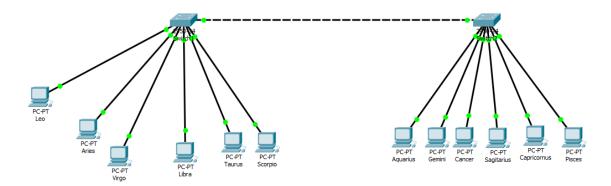
VLAN Name	Status	Ports
1 default Fa0/11	active	Fa0/8, Fa0/9, Fa0/10,
		Fa0/12, Fa0/13,
Fa0/14, Fa0/15		
		Fa0/16, Fa0/17,
Fa0/18, Fa0/19		
		Fa0/20, Fa0/21,
Fa0/22, Fa0/23		
		Fa0/24
10 zodiak1	active	Fa0/2, Fa0/5
20 zodiak2	active	Fa0/3, Fa0/6
30 zodiak3	active	Fa0/4, Fa0/7
1002 fddi-default	active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

Switch#show vlan id 10

VLAN	Name				Stat	tus	Port	s		
	zodia)	 t1			acti	ive	Fa0/	2,	Fa0/5	
Trans	s1 Tran									
		100010	1500	-	-	-	-		-	0
Swite	ch#shov	w vlan id 2	0							
	Name					tus	Port	s		
20	zodia	c2			acti	ive	Fa0/	3,	Fa0/6	
Trans	s1 Tran									
VLAN		SAID	MTU	Parent	RingNo	Bridg	eNo S	tp	BrdgMode	
	enet	100020	1500	-	-	-	-		-	0
Swite	ch#sho	w vlan id 3	0							
VLAN	Name				Sta	tus	Port	s		
30	zodia	k3			act:	ive	Fa0/	4,	Fa0/7	
Trans	s1 Tra	SAID ns2								
30 0	enet	100030	1500	-	-	-	-		-	0

Switch#

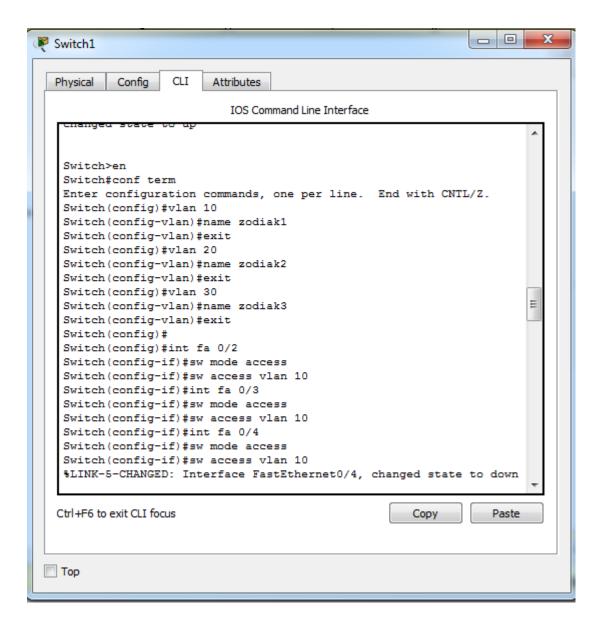
Kegiatan 2. Topologi 2



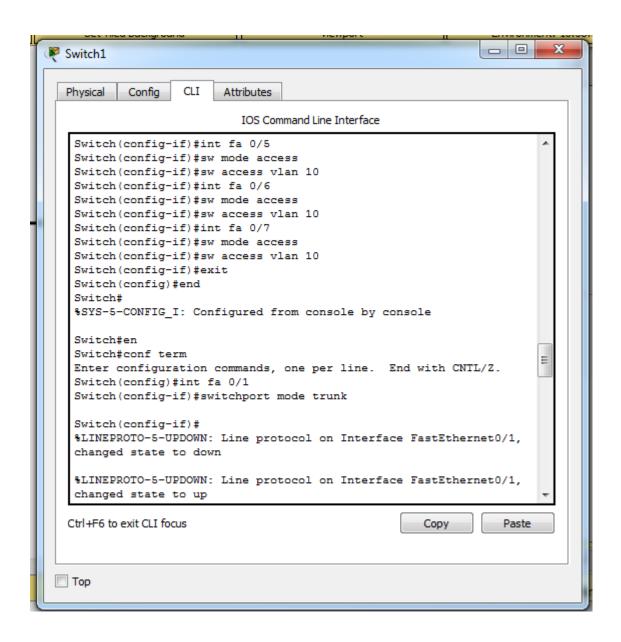
Konfigurasi alamat IP masing-masing PC:

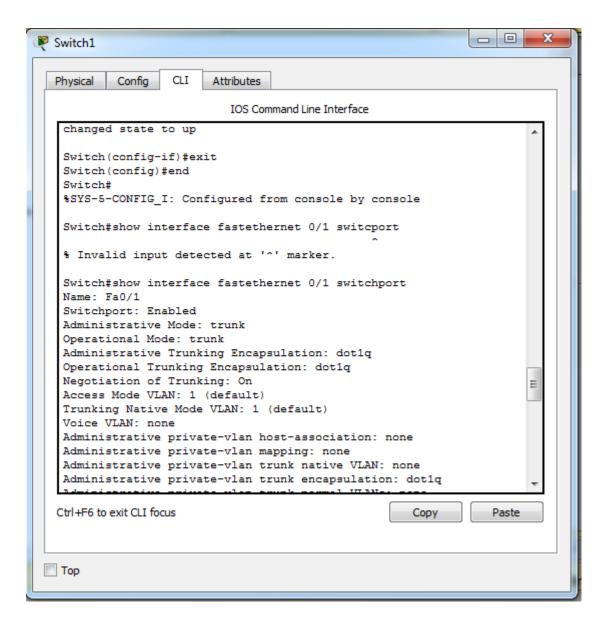
Leo : 172.21.1.1/24 Aries : 172.21.1.3/24 Virgo : 172.21.2.1/24 Libra : 172.21.2.2/24 Taurus : 172.21.3.1/24 Scorpio : 172.21.3.2/24 Aquarius : 172.21.1.3/24 Gemini : 172.21.1.4/24 Cancer : 172.21.2.3/24 Sagitarius : 172.21.2.4/24 Capricornus : 172.21.3.3/24 **Pisces** : 172.21.3.4/24

Konfigurasi pada switch dengan mode user atau mode privilaged, membuat 3 VLAN dengan nama zodiak1, zodiak2, zodiak3 dan Konfigurasikan port-port switch ke dalam VLAN zodiak1, zodiak2, zodiak3:



Konfigurasi VLAN trunking pada switch 1:





Melakukan ping dari PC Leo ke PC Pisces:

```
Physical Config Desktop Programming Attributes

Command Prompt

X

Packet Tracer PC Command Line 1.0
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:\>
```

Konfigurasi VLAN trunking pada switch 2:

```
Switch>en
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface fa 0/1
Switch(config-if)#switchport mode trunk
Switch(config-if)#exit
Switch(config)#
```

Melihat Konfigrasi VLAN pada switch 2:

Switch#show vlan

```
VLAN Name
                                Status
                                       Ports
active Fa0/2, Fa0/3, Fa0/4,
1 default
Fa0/5
                                         Fa0/6, 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
1002 fddi-default
                                active
1003 token-ring-default
                                active
1004 fddinet-default
                                active
1005 trnet-default
                                active
VLAN Type SAID MTU Parent RingNo BridgeNo Stp BrdgMode
Trans1 Trans2
```

1	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	
1	enet	100001	1500	-	-	-	-	-	0
	fddi	101002	1500	-	-	-	-	-	0
1003 0	tr	101003	1500	-	-	-	-	-	0
1004 0	fdnet	101004	1500	-	-	-	ieee	-	0
1005	trnet	101005	1500	-	-	-	ibm	-	0
Мо	ore								

Konfigurasi port-port switch ke dalam VLAN zodiak1, zodiak2, zodiak3 dengan anggota sebagai berikut:

zodiak1 : Aquarius dan Gemini
 zodiak2 : Cancer dan Sagitarius
 zodiak3 : Capricornus dan Pisces

Switch(config) #interface Fastethernet 0/2

```
Switch(config-if) #switchport mode access
Switch(config-if) #switchport access vlan10
% Invalid input detected at '^' marker.
Switch(config-if) #switchport access vlan 10
Switch(config-if)#interface Fastethernet 0/3
Switch(config-if) #switchport mode access
Switch(config-if) #switchport access vlan 10
Switch(config-if) #interface Fastethernet 0/4
Switch(config-if) #switchport mode access
Switch(config-if) #switchport access vlan 20
Switch(config-if) #interface Fastethernet 0/5
Switch(config-if) #switchport mode access
Switch(config-if) #switchport access vlan 20
Switch(config-if) #interface Fastethernet 0/6
Switch(config-if) #switchport mode access
Switch(config-if) #switchport access vlan 30
Switch(config-if) #interface Fastethernet 0/7
Switch(config-if) #switchport mode access
Switch(config-if) #switchport access vlan 30
Switch(config-if) #exit
```

Melihat konfigurasi VLAN pada switch 2:

Switch#show vlan brief

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

Ping antar PC:

Ping dari PC Leo ke PC Aries

```
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),
```

Ping PC Leo ke PC Aquarius

```
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=12ms 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 = 12ms, Average = 3ms
```