Nama: Dewi Rahmawati

NIM: L200170188

Kelas: D

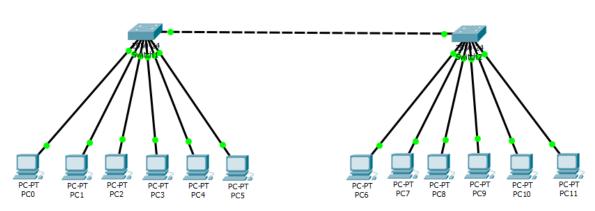
Modul: 4

JARINGAN KOMPUTER

Kegiatan 2. Topologi 2

1. Membuat topologi berikut ini menggunakan packet tracer



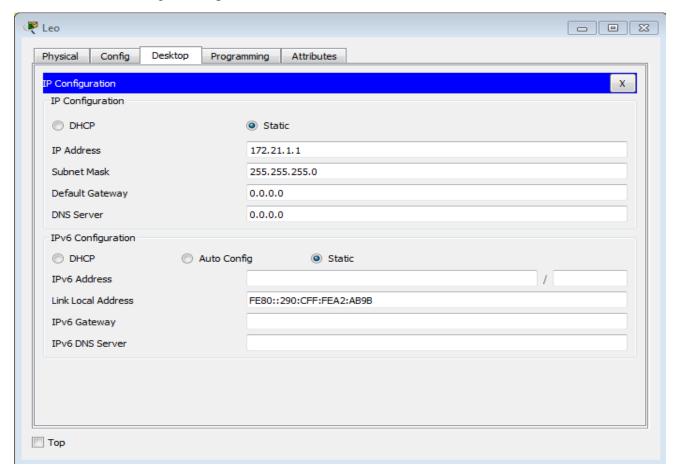


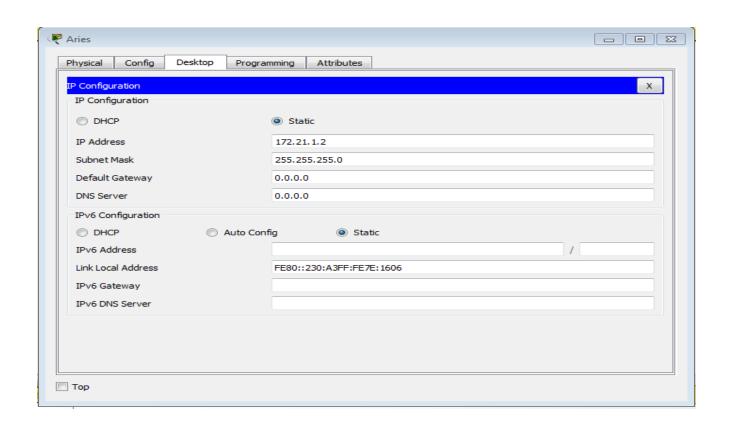
2. Memberi nama masing masing perangkat

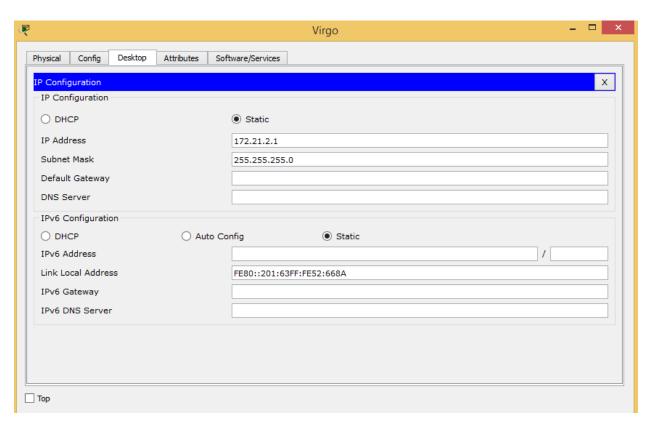
a. Switch1 : SW1
 b. Switch1 : SW2
 c. Pc0 : Leo
 d. Pc1 : Aries
 e. Pc2 : Virgo
 f. Pc3 : Libra
 g. Pc4 : Taurus

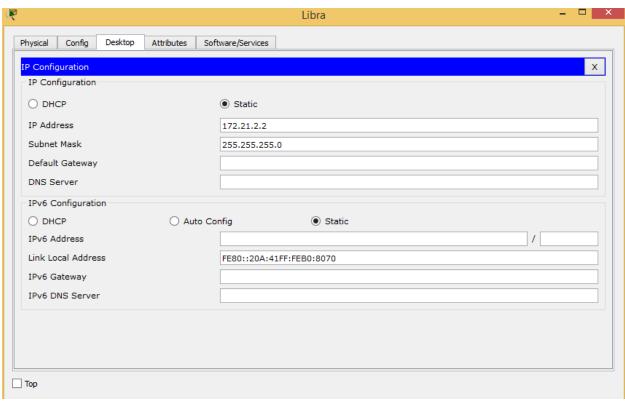
h. Pc5 : Scorpio
i. Pc6 : Aquarius
j. Pc7 : Gemini
k. Pc8 : Cancer
l. Pc9 : Sagitarius
m. Pc10 : Capcicorn
n. Pc11 : Pisces

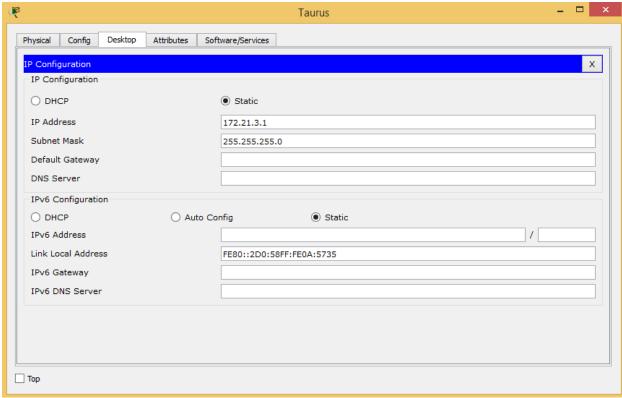
3. Merubah konfigurasi tiap PC

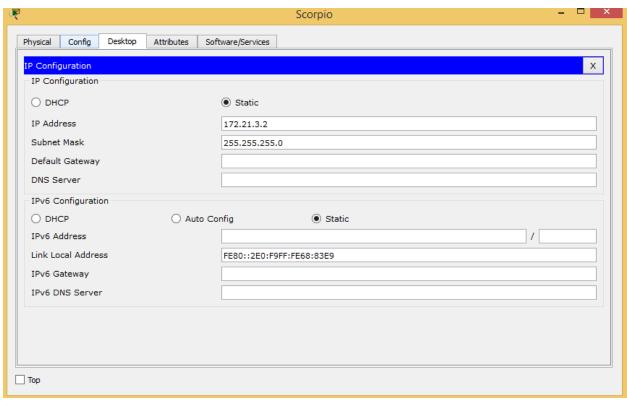


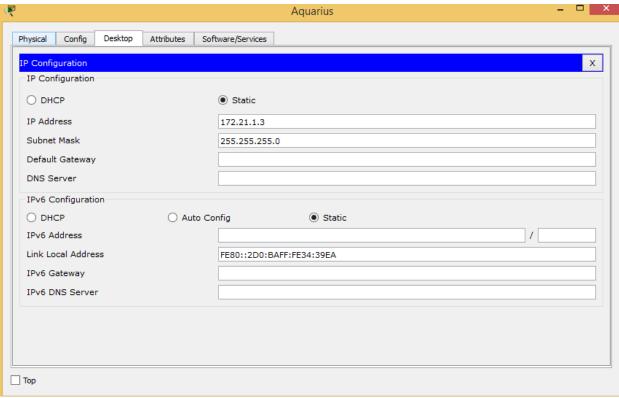


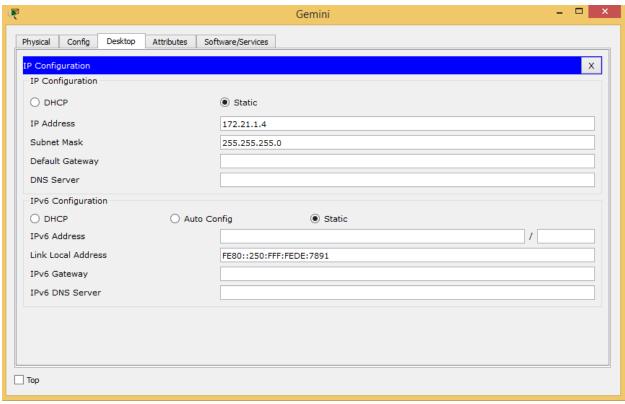


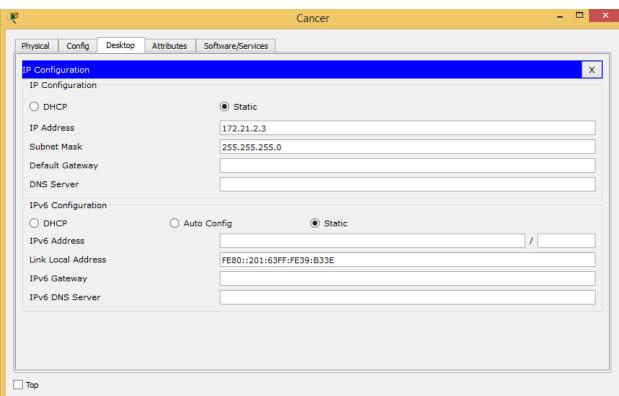


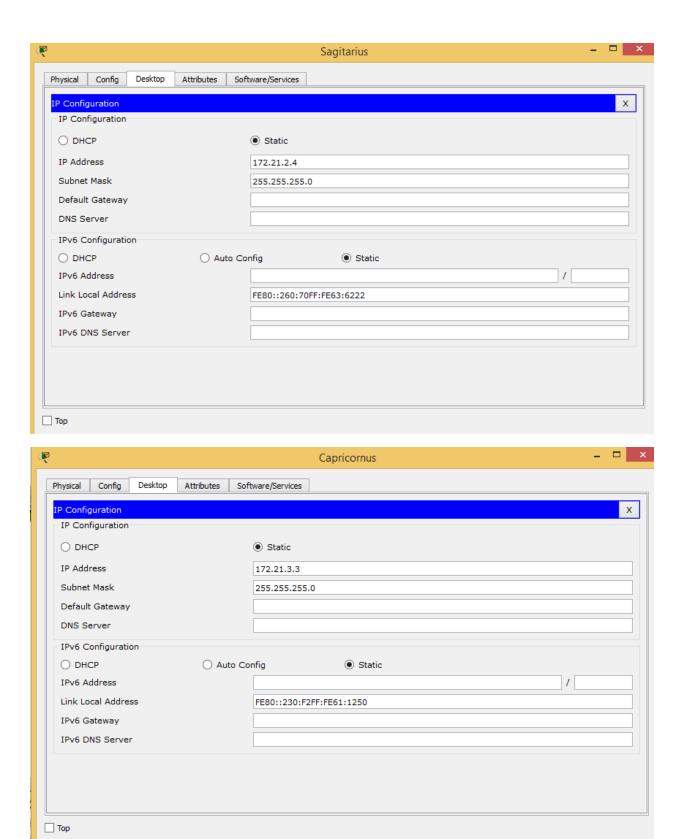


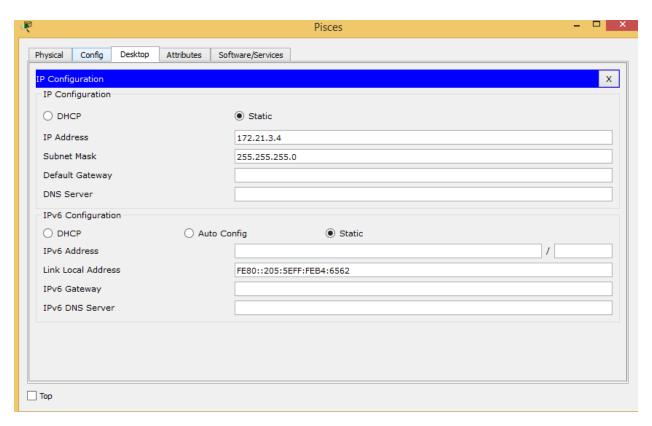












4. Membuat 3 buah Vlan dengan nama zodiak1, zodiak2, dan zodiak3

5. Selanjutnya pada mode konfigurasi, kelompokkan port-port switch ke dalam VLAN zodiak1, zodiak2, dan zodiak3. Pengaturannya sebagai berikut :

Zodiak1 : leo dan libraZodiak2 : aries dan TaurusZodiak3 : virgo dan scorpio

IOS Com

```
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) #ex
Switch(config) #vlan 20
Switch(config-vlan) #name zodiak2
Switch(config-vlan) #ex
Switch(config) #vlan 30
Switch(config-vlan) #name zodiak3
Switch(config-vlan) #ex
Switch(config) #int fa 0/1
Switch(config-if) #sw mode access
Switch(config-if) #sw access vlan 10
Switch(config-if)#int fa 0/4
Switch(config-if) #sw mode access
Switch(config-if) #sw access vlan 10
Switch(config-if) #int fa 0/2
Switch(config-if) #sw mode access
Switch(config-if) #sw access vlan 20
Switch(config-if) #int fa 0/3
Switch(config-if) #sw mode access
Switch(config-if) #sw access vlan 30
Switch(config-if) #int fa 0/5
Switch(config-if) #sw mode access
Switch(config-if) #sw access vlan 20
Switch(config-if) #sw mode access
Switch(config-if) #sw access vlan 30
Switch(config-if) #end
Switch#
%SYS-5-CONFIG I: Configured from console by console
Switch#show vlan brief
VLAN Name
                                       Status
                                                 Ports
```

6. Menampilkan informasi Vlan secara keseluruhan

											IOS Command Line Interfa
Swite	ch#sho	w vlan bri	ef								
	Name						Ports				
	defau	lt					Fa0/6, Fa0/10, Fa0/14, Fa0/18,	Fa0/7, Fa Fa0/11, Fa0/15, Fa0/19, Fa0/23,	0/8, Fa Fa0/12, Fa0/16, Fa0/20,	0/9 Fa0/13 Fa0/17	
10	zodia	k1			ac	tive	Fa0/1,	Fa0/4			
20	zodia	k2			ac	tive	Fa0/2				
30	zodia	k3			ac	tive	Fa0/3,	Fa0/5			
		default			ac	tive					
		-ring-defa			ac	tive					
		et-default	;		ac	tive					
		-default			ac	tive					
Swite	ch#sho	w vlan id	10								
VLAN	Name				St	atus	Ports				
10	zodia	k1			ac	tive	Fa0/1,				
VLAN	Туре	SAID	MTU	Parent	RingN	o Brid	geNo Stp	BrdgMode	Trans1	Trans2	
10	enet	100010	1500	-	-	-	-	-	0	0	
Swite	ch#sho	w vlan id	20								
VLAN	Name					atus	Ports				
20	zodia	k2					Fa0/2				
VLAN	Туре	SAID						BrdgMode	Trans1	Trans2	
								-			

7. Mode privileged

IOS Command Line Interface

Switch#conf term Enter configuration commands, one per line. End with CNTL/Z. Switch(config) #interface fa 0/24 Switch(config-if) #witchport mode trunk % Invalid input detected at '^' marker. Switch(config-if) #switchport mode trunk Switch(config-if)# %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/24, changed state to down %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/24, changed state to up Switch(config-if) #ex Switch(config) #ex Switch# %SYS-5-CONFIG I: Configured from console by console Switch#show interface fastethernet 0/24 switchport Name: Fa0/24 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

IOS Command Line In

										105 Command
Swite	ch#sho	w interfac	e truni	ŀ						
					Statue	N	Jative vla	n		
Fan/2	24	OD	80	ncapsulation 02.1q	trunkin	σ 1	acive via			
				22.14	or annarm	9 -				
Port		Vlans al	lowed o	on trunk						
Fa0/2	24	1-1005								
				and active in	n managem	ent doma	in			
Fa0/2	24	1,10,20,	30							
Port		Vlans in	spann	ing tree forw	varding =	tate and	not prun	ed		
		1,10,20,	-	, 0200 2021			prun			
		, ,,								
Swite	ch#sho	w vlan								
***	Viene					D				
VLAN	Name				Status	Ports				
1	defau	lt		a	active	Fa0/6,	Fa0/7, Fa	0/8, Fa	0/9	
							Fa0/11,			
							Fa0/15,			
						Fa0/18,	Fa0/19,	Fa0/20,	Fa0/21	
							Fa0/23			
10	zodia	k1		ē	active	Fa0/1,	Fa0/4			
20	zodia	k2			active					
30	zodia	k3		ā	active	Fa0/3,	Fa0/5			
1002	fddi-	default		a	active					
1003	token	-ring-defa	ult	a	active					
1004	fddin	et-default		a	active					
1005	trnet	-default		ē	active					
	_									
VLAN	Type	SAID	MTU	Parent Ring	gNo Bridg	eNo Stp	BrdgMode	Trans1	Trans2	
1	enet	100001	1500		-	_	_	0	0	
					_	_	_	0	0	
						_	_	0	0	
30	enet	100030	1500		_	_	_	0	0	
		101002			_	_	_	0	0	
								_	_	

					tus P					
lefaul	lt			act						
								Fa0/20,	Fa0/21	
							Fa0/4			
							T-0/F			
						au/3, 1	rau/5			
	_									
		L								
.Inec-	-deraurt			act.	Ive					
			Parent	RingNo	BridgeN	lo Stp	BrdgMode	Trans1	Trans2	
			-	-	-	_	-	0	0	
enet	100010	1500	-	-	-	-	_	0	0	
enet	100020	1500	-	-	-	-	-	0	0	
enet	100030	1500	-	-	-	-	-	0	0	
Eddi	101002	1500	-	-	-	-	-	0	0	
r	101003	1500	-	-	-	-	-	0	0	
									0	
rnet	101005	1500	-	-	-	ibm	-	0	0	
SPA1	N VLANs									
	odial odial odial ddi- oken ddine rnet ype net net net net ret dr dnet	odiak1 odiak2 odiak3 ddi-default oken-ring-def. ddinet-default ype SAID net 100001 net 100020 net 100030 ddi 101002 r 101003 dnet 101004	odiak1 odiak2 odiak3 ddi-default oken-ring-default ddinet-default rnet-default ype SAID MTU net 100001 1500 net 100010 1500 net 100020 1500 net 100030 1500 ddi 101002 1500 r 101003 1500 dnet 101004 1500 rnet 101005 1500	odiak1 odiak2 odiak3 ddi-default oken-ring-default ddinet-default rnet-default ype SAID MTU Parent	odiak1 act odiak2 act odiak3 act ddi-default act oken-ring-default act ddinet-default act rnet-default act vpe SAID MTU Parent RingNo	odiak1 active F odiak2 active F odiak3 active M ddi-default active oken-ring-default active ddinet-default active rnet-default active ype SAID MTU Parent RingNo BridgeN	Fa0/10, Fa0/14, Fa0/14, Fa0/18, Fa0/10, Fa0/18, Fa0/18, Fa0/10, Fa0/18, Fa0/10, Fa0/18, Fa0/18, Fa0/10, Fa0/18, Fa0/18, Fa0/10, Fa0/18, Fa0/18	Fa0/10, Fa0/11, Fa0/11, Fa0/14, Fa0/15, Fa0/18, Fa0/18, Fa0/18, Fa0/18, Fa0/18, Fa0/18, Fa0/18, Fa0/18, Fa0/22, Fa0/23 odiak1	Fa0/10, Fa0/11, Fa0/12, Fa0/14, Fa0/15, Fa0/16, Fa0/14, Fa0/15, Fa0/16, Fa0/18, Fa0/19, Fa0/20, Fa0/22, Fa0/23, Fa0/22, Fa0/23, Fa0/22, Fa0/23, Fa0/22, Fa0/23, Fa0/24, Fa0/24	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 odiak1

8. Ping dari PC leo ke pisces

```
Command Prompt

C:\Pping 172.21.1.1

Pinging 172.21.1.1 with 32 bytes of data:

Reply from 172.21.1.1: bytes=32 time=22ms TTL=128

Reply from 172.21.1.1: bytes=32 time=18ms TTL=128

Reply from 172.21.1.1: bytes=32 time=18ms TTL=128

Reply from 172.21.1.1: bytes=32 time=18ms TTL=128

Reply from 172.21.1.1: bytes=32 time=10ms TTL=128

Ping statistics for 172.21.1.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 10ms, Maximum = 22ms, Average = 17ms

C:\>
C:\>
pinging 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),

C:\>ping 172.21.2.1 with 32 bytes of data:

Request timed out.
```

```
Command Prompt

C:\Pping 172.21.2.2

Pinging 172.21.2.2 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Pinging 172.21.3.1 with 32 bytes of data:

Pinging 172.21.3.1

Pinging 172.21.3.1 with 32 bytes of data:

Request timed out.
Request timed out.
Paquest timed out.
Ping statistics for 172.21.3.1

Pinging 172.21.3.1 with 32 bytes of data:

Request timed out.
Ping statistics for 172.21.3.1:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\Pping 172.21.3.2

Pinging 172.21.3.2 with 32 bytes of data:

Request timed out.
Ping statistics for 172.21.3.2:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

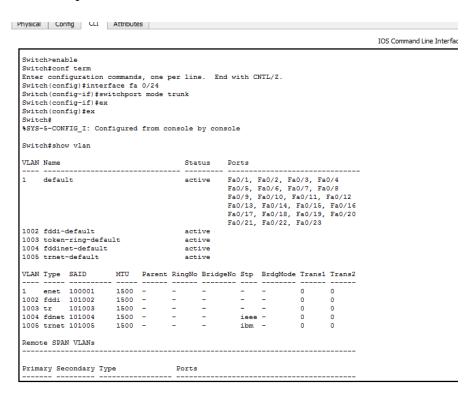
C:\Pping 172.21.1.3

Pinging 172.21.1.3 with 32 bytes of data:

Pinging 172.21.1.3 with 32 bytes of data:
```

```
Physical Config Desktop Attributes Software/Services
 Command Prompt
 Request timed out.
 Ping statistics for 172.21.1.4:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
 C:\>ping 172.21.2.3
 Pinging 172.21.2.3 with 32 bytes of data:
 Request timed out.
Request timed out.
 Request timed out
 Ping statistics for 172.21.2.3:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
 Pinging 172.21.2.4 with 32 bytes of data:
 Request timed out.
Request timed out.
  Request timed out.
 Ping statistics for 172.21.2.4:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
 Pinging 172.21.3.3 with 32 bytes of data:
 Request timed out.
 Request timed out.
Request timed out.
 Request timed out.
 Ping statistics for 172.21.3.3:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

9. Konfigurasi VLAN pada switch 2



10. Ubah mode privileged

11. Mode configuration

```
Physical Config CLI Attributes
                                                                                        IOS Command Line Interface
  Switch#conf term
  Enter configuration commands, one per line. End with CNTL/Z.
  Switch(config) #int fa 0/1
  Switch(config-if) #ex
  Switch(config) #ex
  %SYS-5-CONFIG I: Configured from console by console
  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) #ex
  Switch(config) #vlan 20
  Switch(config-vlan) #name zodiak2
  Switch (config-vlan) #ex
  Switch(config) #vlan 30
  Switch(config-vlan) #name zodiak3
  Switch(config-vlan)#ex
  Switch(config) #int fa 0/1
  Switch(config-if) #sw mode access
  Switch(config-if) #sw access vlan 10
  Switch(config-if) #int fa 0/4
  Switch(config-if) #sw mode access
  Switch(config-if) #sw access vlan 10
  Switch(config-if) #int fa 0/2
  Switch(config-if) #sw mode access
  Switch(config-if) #sw access vlan 20
  Switch(config-if)#int fa 0/3
  Switch(config-if) #sw mode access
  Switch(config-if) #sw access vlan 30
  Switch(config-if) #int fa 0/5
  Switch(config-if) #sw mode access
  Switch(config-if) #sw access vlan 20
  Switch(config-if) #sw mode access
  Switch(config-if) #sw access vlan 30
  Switch (config-if) #end
```

12. Melakukan ping di setiap PC

```
C:\>ping 172.21.1.2

Pinging 172.21.1.2 with 32 bytes of data:

Request timed out.

Ping statistics for 172.21.1.2:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

```
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

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 = 1ms, Average = 0ms
```

```
Pinging 172.21.2.3 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.

Ping statistics for 172.21.2.3:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 172.21.1.1

Pinging 172.21.1.1 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 172.21.1.1:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```