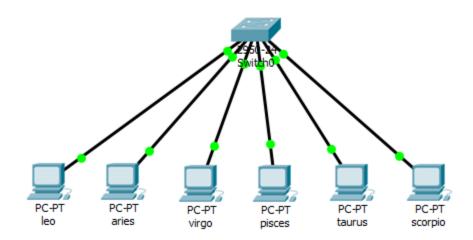
NAMA : NOVI TRISTANTI

NIM : L200170167

KELAS : D

Kegiatan 1

1. buat topologi dan beri masing-masing perangkat dengan SW1(switch), leo(PC0), aries(PC1), virgo(PC2), pisces(PC04), Taurus(PC5), scorpio(PC06)



2. 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

• scorpio : 172.21.1.6/24

3. buat 3 VLAN (zodiak1, zodiak2, zodiak3)

```
Switch>enable
Switch‡conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config) #vlan zodiak1

* Invalid input detected at '^' marker.

Switch(config) #vlan 10
Switch(config-vlan) #name zodiak1
Switch(config-vlan) #ex
Switch(config-vlan) #ex
Switch(config-vlan) #name zodiak2
Switch(config-vlan) #ex
Switch(config-vlan) #ame zodiak3
Switch(config-vlan) #name zodiak3
Switch(config-vlan) #name zodiak3
Switch(config-vlan) #ex
```

4. konfigurasi port-port switch kedalam VLAN zodiak1, zodiak2, zodiak3

Zodiak1 : leo dan libra Zodiak2 : aries dan Taurus Zodiak3 : virgo dan scorpio

```
Switch>enable
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config) #int fa 0/1
Switch(config-if) #sw mode access
Switch(config-if) #sw access vlan 10
Switch(config-if) #int fa 0/2
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 0/4
Switch(config-if) #sw mode access
Switch(config-if) #sw access vlan 10
Switch(config-if) #int fa 0/5
Switch(config-if) #sw mode access
Switch(config-if) #sw access vlan 20
Switch(config-if) #int fa 0/6
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
```

5. Menampilkan informasi Vlan secara keseluruhan

```
%SYS-5-CONFIG_I: Configured from console by console
Switch#show vlan brief
VLAN Name
                                   Status Ports
1 default
                                   active 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
10 zodiak1
                                   active Fa0/1, Fa0/4
20 zodiak2
                                   active Fa0/2, Fa0/5
30 zodiak3
                                   active
                                           Fa0/3, Fa0/6
1002 fddi-default
1003 token-ring-default
                                   active
1004 fddinet-default
                                   active
1005 trnet-default
                                   active
Switch#
```

6. Menampilkan informasi vlan 10

Swit	ch#sho	w vlan id	10					
VLAN	Name				Stat	tus P	orts	
10	zodia	k1			act:	ive F	a0/1,	Fa0/4
	Type s1 Tra	SAID ns2	MTU	Parent	RingNo	BridgeN	o Stp	BrdgMode
10 0	enet 0	100010	1500	-	-	-	-	-

Menampilkan informasi vlan 20

-					_						
	Swite	h#sho	w vlan id 2	0							
	VLAN	Name				Stat	tus	Por	ts		
	20	zodia	k2			act:	ive	Fa0	/2. 1	Fa0/5	
	VLAN	Type	SAID	MTU	Parent						
		1 Tran									
	20	enet	100020	1500	_	_	_		_	_	
	0	0									Ξ
- 1	•										

7. Menampilkan informasi vlan 30

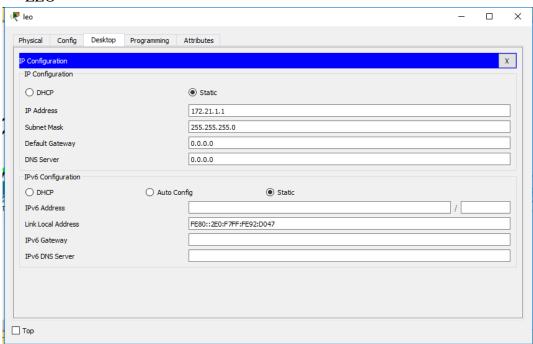
Swit	ch#sho	w vlan id	30						
VLAN	Name				Sta	tus P	orts		
30	zodia	k3			act:	ive F	a0/3,	Fa0/6	
	N Type		MTU	Parent	RingNo	BridgeN	o Stp	BrdgMode	
30 0	enet 0	100030	1500	-	-	-	-	-	E

Kegiatan 2

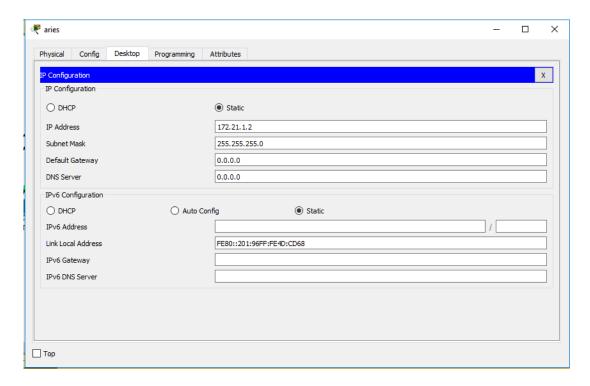
1. Topologi menggunakan switch Catalyst 2950



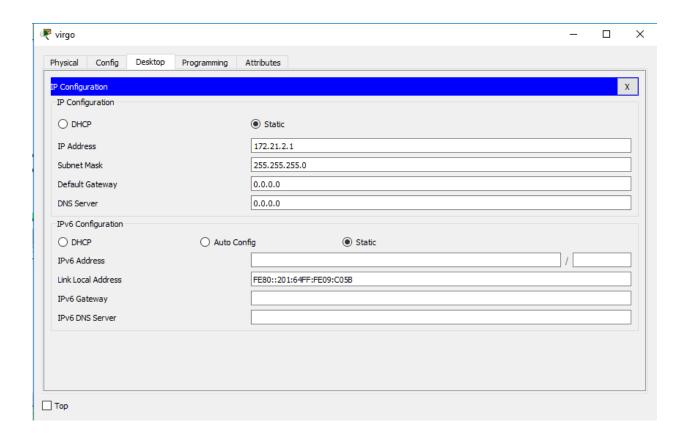
- 2. Konfigurasi masing-masing pc
 - LEO



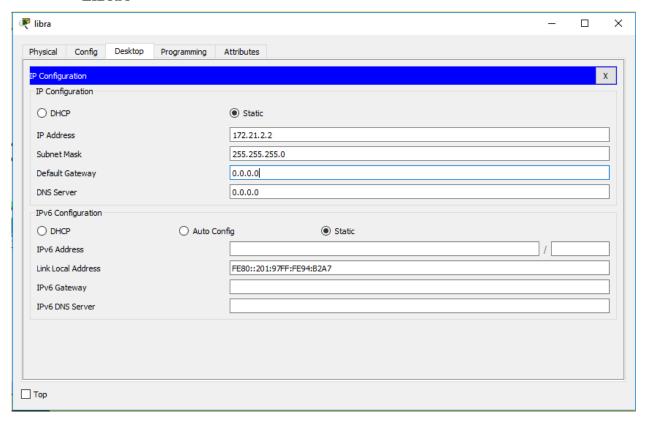
• ARIES



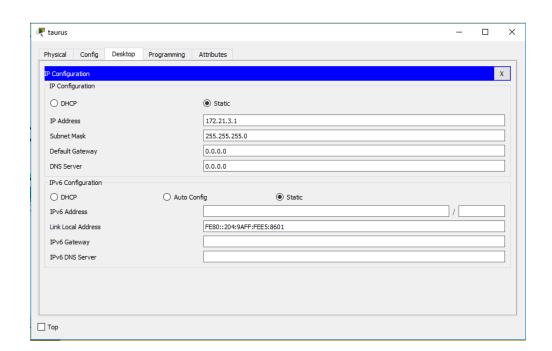
• VIRGO



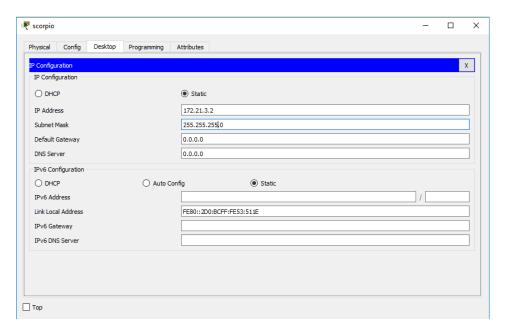
• LIBRA



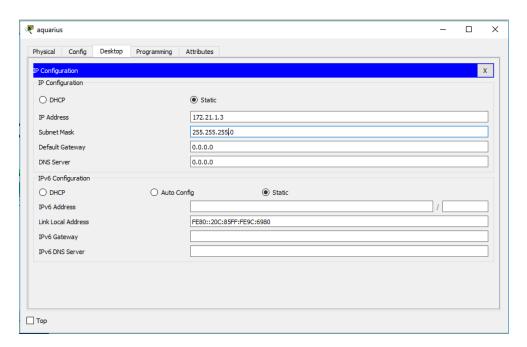
TAURUS



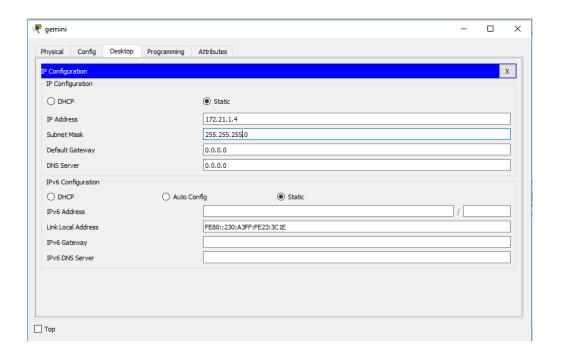
• SCORPIO



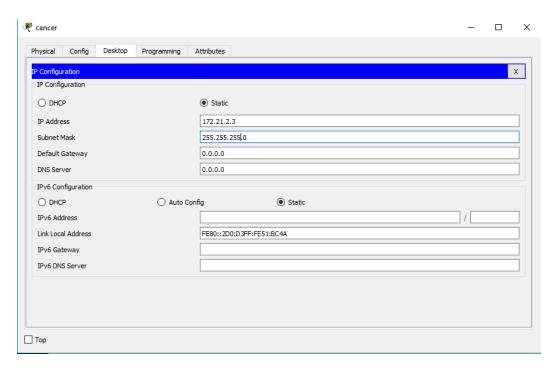
• AQUARIUS



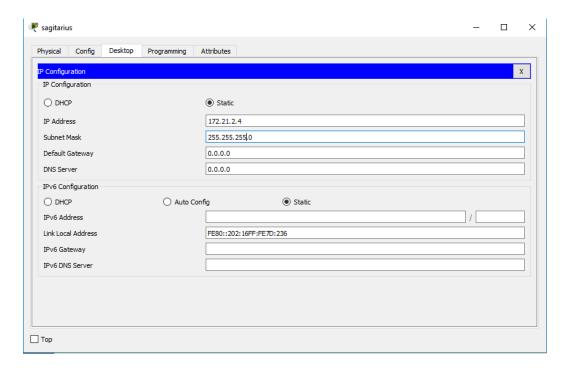
• GEMINI



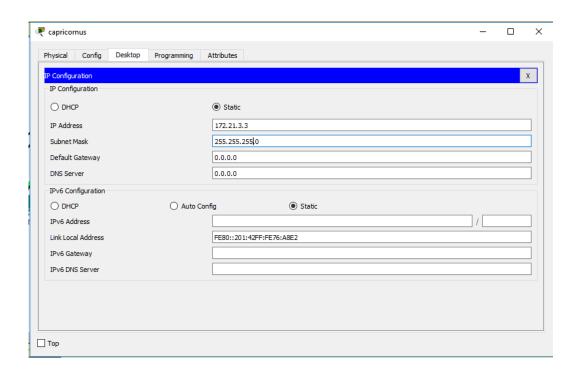
• CANCER



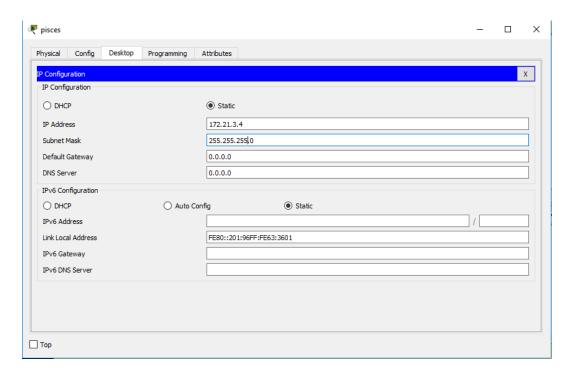
• SAGITARIUS



• CAPRICONUS



PISCES



3. Langkah 4 & 5

```
Switch conf term

Enter configuration commands, one per line. End with CNTL/Z.

Switch (config) #vlan 10

Switch (config-vlan) #name zodiakl

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) #exit

Switch (config-vlan) #name zodiak3

Switch (config-vlan) #name zodiak3

Switch (config-vlan) #exit
```

```
Switch(config) #int fa 0/1
Switch(config-if) #sw mode access
Switch(config-if) #sw access vlan 10
Switch(config-if) #exit%SPANTREE-2-RECV PVID ERR: Received 802.1Q
BPDU on non trunk FastEthernet0/1 VLAN1.
SPANTREE-2-BLOCK PVID LOCAL: Blocking FastEthernet0/1 on
VLAN0001. Inconsistent port type.
%CDP-4-NATIVE VLAN MISMATCH: Native VLAN mismatch discovered on
FastEthernet0/1 (10), with Switch FastEthernet0/1 (1).
Switch (config) #int fa 0/4
Switch (config-if) #sw mod
%CDP-4-NATIVE VLAN MISMATCH: Native VLAN mismatch discovered on
FastEthernet0/1 (10), with Switch FastEthernet0/1 (1).
e access
Switch (config-if) #int fa 0/4
Switch(config-if) #sw mode access
Switch(config-if) #sw access vlan 10
Switch (config-if) #exit
Switch(config) #int fa 0/2
Switch(config-if) #sw mode access
                                                           Activate V
Switch(config-if) #int fa 0/3
Switch(config-if) #sw mode access
Switch(config-if) #sw access vlan 30
Switch(config-if) #exit
Switch(config) #int fa 0/5
Switch(config-if) #sw mode access
Switch(config-if) #sw access vlan 20
Switch(config-if) #sw mode ac
%CDP-4-NATIVE VLAN MISMATCH: Native VLAN mismatch discovered on
FastEthernet0/1 (10), with Switch FastEthernet0/1 (1).
cess
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
```

4. Konfigurasi vlan trunking pada switch 1

Protected: false

Appliance trust: none

```
Switch#conf term
  Enter configuration commands, one per line. End with CNTL/Z.
  Switch (config) #int fa 0/1
  Switch(config-if) #sw mode trunk
  Switch (config-if) #
  %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1,
  changed state to down
  %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1,
  changed state to up
  Switch(config-if) #exit
5. Pada mode user dan mode privileged lihat komfigurasi trunking switch 1 yang telah
  dibuat
  Switch#show interface fastethernet 0/1 switchport
  Name: Fa0/1
  Switchport: Enabled
  Administrative Mode: trunk
  Operational Mode: trunk
  Administrative Trunking Encapsulation: dotlg
  Operational Trunking Encapsulation: dotlg
  Negotiation of Trunking: Off
  Access Mode VLAN: 10 (zodiakl)
  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
```

Switch#show vlan

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

VLAN Type SAID MTU Parent RingNo BridgeNo Stp BrdgMode

6. Lakukan ping dari pc leo ke pc pisces

```
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),
```

7. Lakukan konfigurasi vlan trunking pada switch 2

Switch>enable
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)#

8. Pada mode user dan mode privileged lihat komfigurasi trunking switch 2 yang telah dibuat

Switch#show vlan

VLAN Name	Status Ports
1 default Fa0/4, Fa0/5	active Fa0/2, Fa0/3,
	Fa0/6, Fa0/7,
Fa0/8, Fa0/9	Fa0/10, Fa0/11,
Fa0/12, Fa0/13	Fa0/14, Fa0/15,
Fa0/16, Fa0/17	
Fa0/20, Fa0/21	Fa0/18, Fa0/19,
F=0/24	Fa0/22, Fa0/23,
Fa0/24 1002 fddi-default	act/unsup
1003 token-ring-default	act/unsup
1004 fddinet-default	act/unsup
1005 trnet-default	act/unsup
VLAN Type SAID MTU Par Transl Trans2	ent RingNo BridgeNo Stp BrdgMod

		SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode
Transl Trans2								
1	enet	100001	1500	-	-	-	-	-
0	0							
1002	fddi	101002	1500	-	-	-	-	-
0	0							
1003	tr	101003	1500	_	_	_	_	_
0	0							
1004	fdnet	101004	1500	_	_	_	ieee	_
0								
1005	trnet	101005	1500	_	_	_	ibm	_
	0							
VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode
	sl Tran						•	
Remote SPAN VLANs								
Kemot	e SPA	· · · · · · · · · · · · · · · · · · ·						

9. Konfigurasi port-port switch kedalam VLAN zodiak1, zodiak2, zodiak3

Zodiak1 = aquarius & gemini

Zodiak2 = cancer & sagitarius

Switch(config) #int fa 0/1 Switch(config-if) #sw mode access

Zodiak3 = capricornus & pisces

Switch(config-if) #%SPANTREE-2-RECV PVID ERR: Received 802.1Q BPDU on non trunk FastEthernet0/1 VLAN1. %SPANTREE-2-BLOCK_PVID_LOCAL: Blocking FastEthernet0/1 on VLAN0001. Inconsistent port type. sw access % Incomplete command. Switch(config-if) #sw access vlan 10 Switch(config-if) #exit Switch (config) #int fa 0/4 Switch(config-if) #sw mode access Switch(config-if) #sw access vlan 10 Switch (config-if) #exit Switch(config) #int fa 0/2 Switch(config-if) #sw mode access Switch(config-if) #sw access vlan 20 Switch(config-if) #exit Switch (config) # %CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/1 (10), with Switch FastEthernet0/1 (1).

10. Lakukan ping

Ping 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:

Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 172.21.1.3:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

Ping PC leo ke PC pisces

```
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),
```

Ping PC libra ke PC cancer

```
Packet Tracer PC Command Line 1.0
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.

Request timed out.

Ping statistics for 172.21.2.3:

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

Ping PC libra ke PC leo

```
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),
```