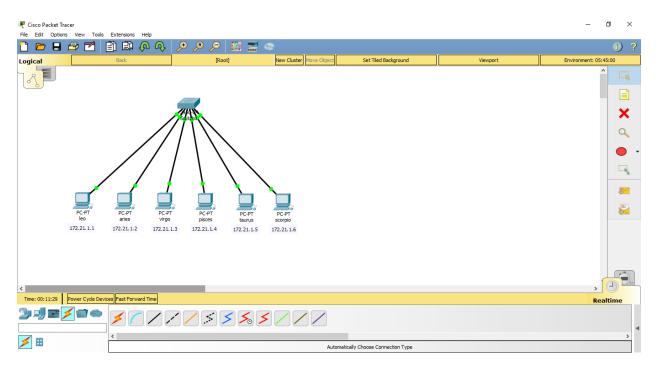
Name: Utari Isnawati

NIM : L200174074

Class : X

Kegiatan 1. Topologi 1

a. Topology dengan menggunakan switch



b. Konfigurasi VLAN pada switch dengan mode user atau mode privileged.

```
Switch>enable
Switchfcenf term

it Invalid input detected at '^' marker.

Switchfconf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config) #vlan 10
Switch(config-vlan) #name zodiakl
Switch(config-vlan) #ex
Switch(config-vlan) #ex
Switch(config-vlan) #name zodiak2
Switch(config-vlan) #ex
```

c. Konfigurasi port-port switch ke dalam VLAN zodiak1, zodiak2, dan zodiak3 pada *mode* configuration.

```
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 0/4
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 0/5
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 0/6
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
```

d. Melihan konfigurasi VLAN yang telah dibuat pada mode user atau mode privileged.

```
Switch#show vlan brief
VLAN Name
                                                            Status Ports
                            active Fa0/7, Fa0/8, Fa0/7, Fa0/10
Fa0/11, Fa0/12, Fa0/13, Fa0/14
Fa0/15, Fa0/16, Fa0/13, Fa0/14
Fa0/15, Fa0/20, Fa0/21, Fa0/22
Fa0/23, Fa0/24
active Fa0/2, Fa0/4
active Fa0/2, Fa0/5
active Fa0/3, Fa0/6
active Fa0/3, Fa0/6
10 zodiakl
20 zodiak2
30 zodiak3
1002 fddi-default
1003 token-ring-default
1004 fddinet-default
1005 trnet-default
Switch#show vlan id 10
                                                            active
                                                             active
                                                           Status
                                                                         Ports
10 zodiakl
                                                           active Fa0/1. Fa0/4

        VLAN Type
        SAID
        MTU
        Parent RingNo BridgeNo St
        BrdgMode Transl Trans2

        10
        enet
        100010
        1500
        -
        -
        -
        -
        -
        0
        0

Switch#show vlan id 20
                  Status Ports
                                                        active Fa0/2, Fa0/5
Switch#show vlan id 30
```

e. Tugas 6A.

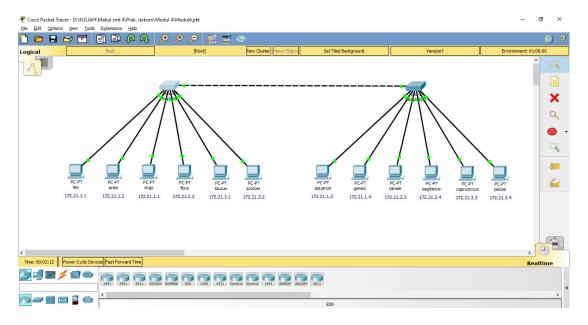
No	Variabel	Nilai				
1	Nomor VLAN	10	20	30		
2	Nama VLAN	zodiak1	zodiak2	zodiak3		
3	Port	Fa0/1, Fa0/4	Fa0/2, Fa0/5	Fa0/3, Fa0/6		
4	Status	active	active	active		

f. Tugas 6B.

Berdasarkan hasil percobaan tersebut, didapatu bahwa pc satu dengan yang lain hanya bisa terhubung jika berada pada nomor VLAN yang sama, sedangkan jika berada pada nomor VLAN yang berbeda pengiriman pesan mengalami kegagalan.

Kegiatan 2. Topologi 2

a. Topologi menggunakan switch Catalyst 2950.



b. Konfigurasi VLAN pada switch dengan *mode user* atau *mode privileged* Serta konfigurasi port-port switch ke dalam VLAN zodiak1, zodiak2, dan zodiak3 pada switch 1.

```
Switch>enable
Switch#cenf term
% Invalid input detected at '^' marker.
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)#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) #end
Switch#
%SYS-5-CONFIG I: Configured from console by console
```

```
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 0/4
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 0/5
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 0/6
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
```

c. Konfigurasi VLAN trunking pada switch 1.

```
Switch(config-if) #int fa 0/24
Switch(config-if) #sw mode trunk
Switch(config-if) #ex
Switch(config) #end
Switch#
%SYS-5-CONFIG_I: Configured from console by console
Switch#
```

d. Melihat konfigurasi trunk yang telah dibuat.

```
Switch#show int trunk
Port Mode Encapsulation Status Native vlan
Fa0/7 on 802.1q trunking 1

Port Vlans allowed on trunk
Fa0/7 1-1005

Port Vlans allowed and active in management domain
Fa0/7 1,10,20,30

Port Vlans in spanning tree forwarding state and not pruned
Fa0/7 1,10,20,30
```

```
Switch#show vlan
  VLAN Name
                                                                                  Status
                                                                                                     Ports
                                                                                                       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
           default
                                                                                                  Fa0/24
Fa0/1, Fa0/4
Fa0/2, Fa0/5
Fa0/3, Fa0/6
         zodiakl
zodiak2
zodiak3
                                                                                 active
active
                                                                                  active
 1002 fddi-default
1003 token-ring-default
1004 fddinet-default
1005 trnet-default
                                                                                 act/unsup
act/unsup
act/unsup
act/unsup
VLAN Type SAID MTU Parent RingNo BridgeNo Stp BrdgMode Transl Trans2

10 enet 100001 1500 - - - 0 0

10 enet 100020 1500 - - - 0 0

20 enet 100020 1500 - - - 0 0

1002 fddi 101002 1500 - - - 0 0

1002 fddi 101002 1500 - - - 0 0

1003 tr 101003 1500 - - - 0 0

1004 fdnet 101004 1500 - - 1 ieee - 0 0

1005 tr 101004 1500 - - 1 ieee - 0 0
  1005 trnet 101005
  VLAN Type SAID MTU Parent RingNo BridgeNo Stp BrdgMode Transl Trans2
  Remote SPAN VLANs
  Primary Secondary Type Por
                                                                             Ports
```

e. Ping dari PC leo ke PC pisces.

```
Physical Config Desktop Programming Attributes

Command Prompt

Request 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.
Ping statistics for 172.21.3.4:
Packets: Sent = 4, Received = 0, Lost = 4 (100\dagger loss),
C:\>
```

f. Konfigurasi VLAN trunking pada switch 2.

```
Switch>enable
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#int fa 0/24
Switch(config-if)#sw mode trunk
Switch(config-if)#ex
Switch(config)#end
Switch#
%SYS-5-CONFIG_I: Configured from console by console
```

g. Melihat konfigurasi VLAN pada switch 2.

efault odiak1 odiak2 odiak3 idi-default oken-ring-defa idinet-default rnet-default ype SAID			act: act: act; act; act;	Fa Fa ive Fa ive Fa ive Fa vunsup /unsup	0/8, F 0/12, 0/16, 0/20, 0/24 0/1, F	'a0/9, Fa Fa0/13, : Fa0/17, : Fa0/21, : 'a0/4 'a0/5	Fa0/14,	Fa0/15 Fa0/19
odiak2 odiak3 ddi-default oken-ring-defa ddinet-default rnet-default			act; act; act; act;	Fa Fa ive Fa ive Fa ive Fa vunsup /unsup	0/16, 0/20, 0/24 0/1, E	Fa0/17, : Fa0/21, : a0/4 a0/5	a0/18,	Fa0/19
odiak2 odiak3 ddi-default oken-ring-defa ddinet-default rnet-default			act; act; act; act;	Fa ive Fa ive Fa ive Fa vunsup /unsup	0/20, 0/24 0/1, E	Fa0/21, 1 a0/4 a0/5		
odiak2 odiak3 ddi-default oken-ring-defa ddinet-default rnet-default			act; act; act; act;	Fa ive Fa ive Fa ive Fa /unsup /unsup	0/24 0/1, E 0/2, E	a0/4 a0/5	Fa0/22,	Fa0/23
odiak2 odiak3 ddi-default oken-ring-defa ddinet-default rnet-default			act; act; act; act;	ive Fa ive Fa ive Fa /unsup /unsup	0/1, E	a0/5		
odiak2 odiak3 ddi-default oken-ring-defa ddinet-default rnet-default			act; act; act; act;	ive Fa ive Fa /unsup /unsup	0/2, E	a0/5		
odiak3 ddi-default oken-ring-defa ddinet-default rnet-default			act; act; act; act;	ive Fa /unsup /unsup				
ddi-default oken-ring-defa ddinet-default rnet-default			act, act,	/unsup /unsup	10/3, E	a0/6		
oken-ring-defa ddinet-default rnet-default			act,	/unsup				
ddinet-default rnet-default			act	-				
rnet-default								
				/unsup /unsup				
ype SAID			act	unsup				
	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	Transl	Trans2
net 100001	1500	-	-	-	-	-	0	0
net 100010	1500 1500	-	-	-	-	-	0	0
net 100020	1500	-		-	-	-	0	0
								0
								•
							-	-
								0
rnet 101005	1500	-	-	-	ibm	-	0	0
dd: dn en	i 101002 101003 et 101004 et 101005	i 101002 1500 101003 1500 et 101004 1500 et 101005 1500	i 101002 1500 - 101003 1500 - et 101004 1500 - et 101005 1500 - e SAID MTU Parent	i 101002	i 101002	i 101002 1500 101003 1500 101003 1500 ieee t 101004 1500 ibm e SAID MIU Parent RingNo BridgeNo Stp	i 101002	i 101002

h. Konfigurasi port-port switch ke dalan VLAN zodiak1, zodiak2, dan zodiak3 pada switch 2.

i. 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.

Ping statistics for 172.21.1.2:

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

C:\>
```

j. Ping dari 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=2ms 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 = 2ms, Average = 0ms

C:\>
```

k. Ping dari 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.

Ping statistics for 172.21.3.4:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

1. Ping dari 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),
C:\>
```

m. Ping dari 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.
Ping statistics for 172.21.1.1:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```