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D

Praktikum Jaringan Komputer

Modul 4

Kegiatan 1. Topologi 1

Physical   Config   CLI   Attributes

IOS Command Line Interface

```
Switch(config)#interface Fastethernet 0/1
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 0/4
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#interface Fastethernet 0/2
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 0/3
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 30
Switch(config-if)#interface Fastethernet 0/6
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 30
Switch(config-if)#exit
Switch(config)#exit
Switch#
```

Ctrl+F6 to exit CLI focus   Copy   Paste

IOS Command Line Interface

```
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                     active
1003 token-ring-default               active
1004 fddinet-default                  active
1005 trnet-default                    active
```

1. VLAN 10

```
Switch#show vlan id 10

VLAN Name                               Status    Ports
---- -------------------------------- ---------
--------------------------------
10   zodiak1                            active    Fa0/1, Fa0/4

VLAN Type  SAID       MTU   Parent RingNo BridgeNo Stp  BrdgMode
Trans1 Trans2
---- ----- ---------- ----- ------ ------ -------- ---- --------
------ ------
10   enet  100010     1500  -      -      -        -    -        0
0
```

| No.	Variabel	Nilai
1	Nomor VLAN	10
2	Nama VLAN	zodiak1
3	Port	Fa0/1, Fa0/4
4	Status	active

Membuat VLAN dengan nomor id 10 bernama zodiak1 dan memiliki port Fa0/1, Fa0/4 yang merupakan anggota dari zodiak1 yaitu Leo dan Libra, berstatus active.

2. VLAN 20

```
Switch#show vlan id 20

VLAN Name                               Status    Ports
---- -------------------------------- ---------
--------------------------------
20   zodiak2                            active    Fa0/2, Fa0/5

VLAN Type  SAID       MTU   Parent RingNo BridgeNo Stp  BrdgMode
Trans1 Trans2
---- ----- ---------- ----- ------ ------ -------- ---- --------
------ ------
20   enet  100020     1500  -      -      -        -    -        0
0
```

No.	Variabel	Nilai
1	Nomor VLAN	20
2	Nama VLAN	zodiak2
3	Port	Fa0/2, Fa0/5
4	Status	active

Membuat VLAN dengan nomor id 20 bernama zodiak2 dan memiliki port Fa0/2, Fa0/5 yang merupakan anggota dari zodiak2 yaitu Aries dan Taurus, berstatus active.

3. VLAN 30
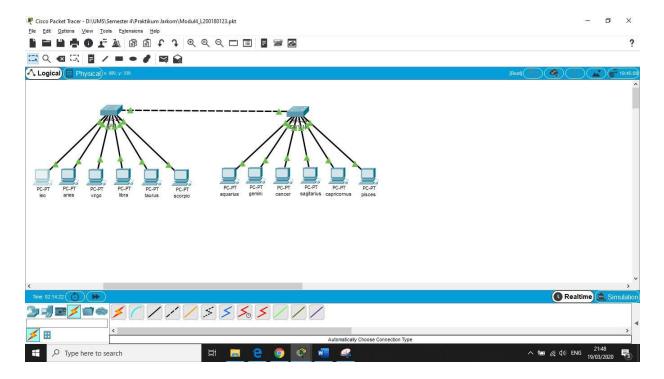
```
Switch#show vlan id 30

VLAN Name                             Status    Ports
---- -------------------------------- ---------
       --------------------------------
30   zodiak3                          active    Fa0/3, Fa0/6

VLAN Type  SAID       MTU   Parent RingNo BridgeNo Stp  BrdgMode
Transl Trans2
---- ----- ---------- ----- ------ ------ -------- ---- --------
------ ------
30   enet  100030     1500  -      -      -        -    -        0
0
```

No.	Variabel	Nilai
1	Nomor VLAN	30
2	Nama VLAN	zodiak3
3	Port	Fa0/3, Fa0/6
4	Status	active
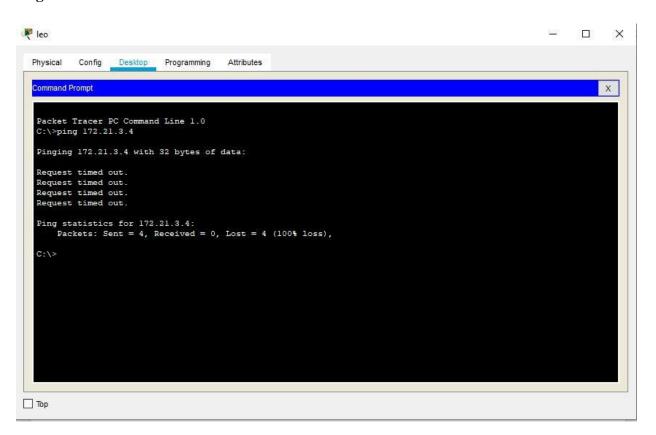
Membuat VLAN dengan nomor id 30 bernama zodiak3 dan memiliki port Fa0/3, Fa0/6 yang merupakan anggota dari zodiak3 yaitu Virgo dan Scorpio, berstatus active.

Kegiatan 2. Topologi 2

Tugas 7A.

Tugas 8A.
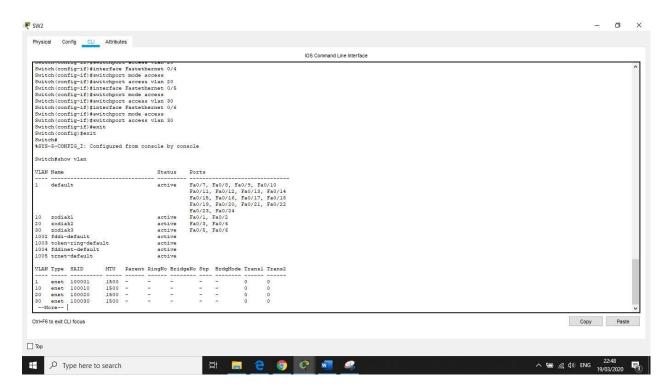
Hasilnya RTO karena walaupun sudah di-Trunking kemudian menyambungkan sesame VLAN ID tapi kalau networknya berbeda tidak bisa terhubung.

```
Switch>enable
Switch#conf
Configuring from terminal, memory, or network [terminal]?
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)#
%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
Switch(config)#exit
Switch#


Switch#show vlan

VLAN Name                             Status    Ports
---- -------------------------------- --------- -------------------------------
1    default                          active    Fa0/2, Fa0/3, Fa0/4, 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 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      0
1005 trnet 101005     1500  -      -      -        ibm  -        0      0

 --More-- |
```

Tugas 10A.
Pada langkah ini port-port fast ethernet belum terkonfigurasi kedalam VLAN, dan VLANnya belum dibuat.

Ping PC leo ke PC aries

RTO karena tidak berada dalam satu VLAN walaupun network accessnya sama.

Ping PC leo ke PC aquarius

Reply karena berada dalam satu VLAN yang sama dan network accessnya sama.

Ping PC leo ke PC pisces

```
C:\>ping 172.21.3.2

Pinging 172.21.3.2 with 32 bytes of data:

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

Ping statistics for 172.21.3.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

RTO karena berada dalam VLAN berbeda dan network accessnya juga berbeda.

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),
```

RTO karena tidak berada dalam satu VLAN walaupun network accessnya sama.

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),
```

RTO karena tidak berada dalam satu VLAN walaupun network accessnya sama.

Tugas 12A.
Hasilnya tetap RTO, karena 2 PC tersebut memiliki network access yang berbeda. Walaupun sudah di-trunking dan menyambungkan VLAN ID tetap tidak bisa terhubung.