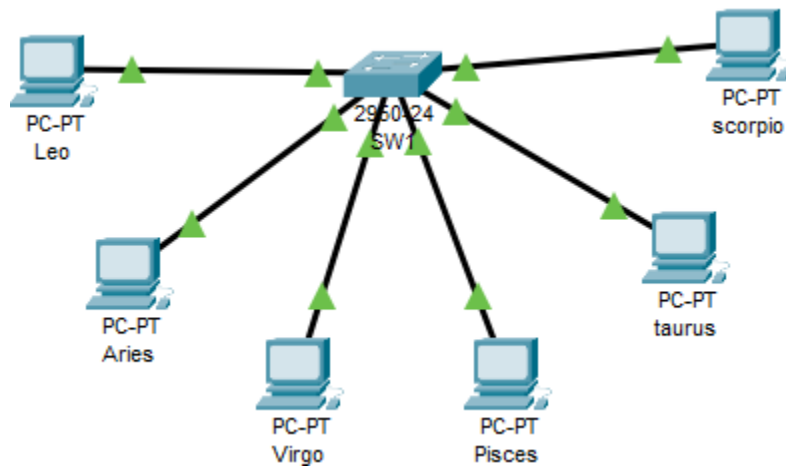Nama   : Akbar M

NIM   : L200180218

Kelas   : E

Modul 4

Kegiatan1

IOS Command Line Interface

```
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)#vlan10
                   ^
% Invalid input detected at '^' marker.

Switch(config)#vlan 10
Switch(config-vlan)#nam
% Incomplete command.
Switch(config-vlan)#name zodiak1
Switch(config-vlan)#exit
Switch(config)#vlan 20
Switch(config-vlan)#name zodiak2
Switch(config-vlan)#exit
Switch(config)#vlan 30
Switch(config-vlan)#name zodiak3
Switch(config-vlan)#exit
Switch(config)#
```

Ctrl+F6 to exit CLI focus   Copy   Paste

IOS Command Line Interface

```
Switch(config-vlan)#exit
Switch(config)#vlan 30
Switch(config-vlan)#name zodiak3
Switch(config-vlan)#exit
Switch(config)#interface Fastethernet 0/1
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 10
Switch(config-if)#exit
Switch(config)#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)#exit
Switch(config)#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)#
```

Ctrl+F6 to exit CLI focus

Copy   Paste

IOS Command Line Interface

```
%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,
Gig0/1, Gig0/2
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
Switch#
```

IOS Command Line Interface

```
----------------------------------
20   zodiak2                              active    Fa0/2, Fa0/5

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

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

Switch#
```

IOS Command Line Interface

```
----------------------------------
10    zodiak1                                active    Fa0/1, Fa0/4

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

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

Switch#
```

IOS Command Line Interface

```
----------------------------------
20    zodiak2                          active    Fa0/2, Fa0/5

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

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
Trans1 Trans2
---- ----- ----------- ------ ------ ------ -------- ---- ---------
------ ------
30   enet  100030      1500  -      -      -        -    -
0     0

Switch#
```

No	Variabel	Nilai
1	Nomor Vlan	10
2	Nama Vlan	Zodiak1
3	Port	0/1 dan 0/4
4	Status	active

No	Variabel	Nilai
1	Nomor Vlan	20
2	Nama Vlan	Zodiak2
3	Port	0/2 dan 0/5
4	Status	active

No	Variabel	Nilai
1	Nomor Vlan	30
2	Nama Vlan	Zodiak3

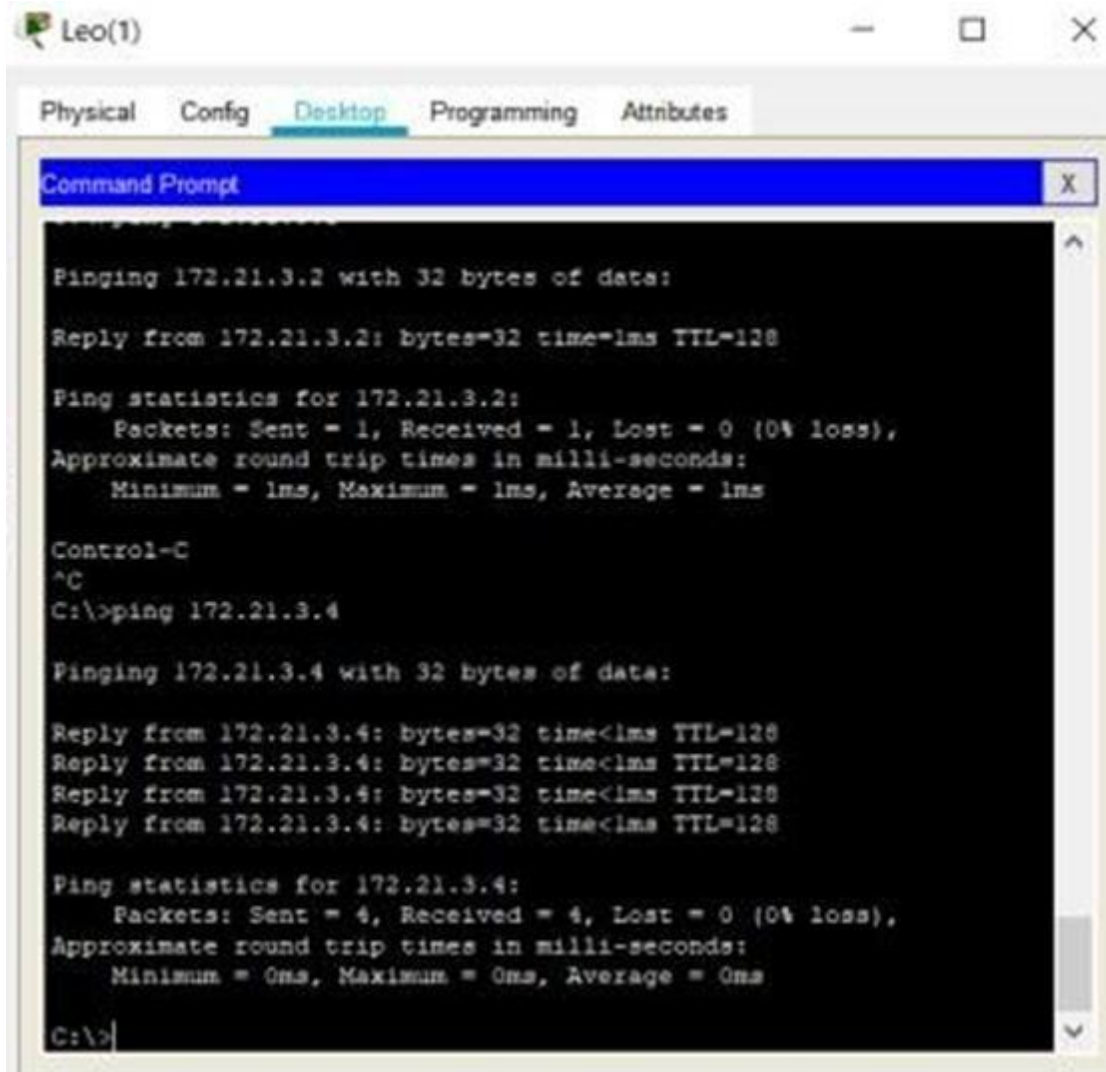| 3	Port	0/4 dan 0/6
4	Status	active

Kegiatan 2
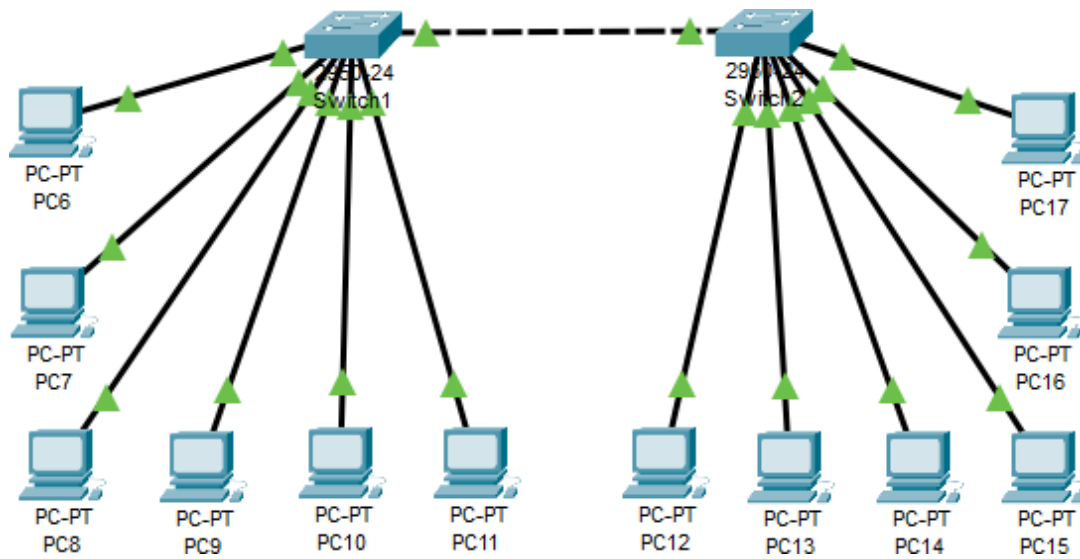
IOS Command Line Interface

```
Switch#show interface fastethernet 0/24 switchport
Name: Fa0/24
Switchport: Enabled
Administrative Mode: trunk
Operational Mode: down
Administrative Trunking Encapsulation: dotlq
Operational Trunking Encapsulation: dotlq
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: 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
Protected: false
Unknown unicast blocked: disabled
Unknown multicast blocked: disabled
```

IOS Command Line Interface

```
------- ------
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

VLAN Type  SAID      MTU   Parent RingNo BridgeNo Stp  BrdgMode
Transl Trans2
---- ----- ---------- ----- ------ ------ -------- ---- ---------
------- ------

Remote SPAN VLANs
------------------------------------------------------------------
--------------

Primary Secondary Type              Ports
------- --------- -----------------
------------------------------------------------
Switch#
```

Tugas 7A:Semua vlan berhasil di aktifkan

Tugas 8A:

Hasil yang diperoleh adalah reply karena pada switchport mode trunk bisa menggunakan semua vlan yang ada

Switch3 — □ ✕

Physical   Config   CLI   Attributes

IOS Command Line Interface

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/23,
changed state to up

Switch(config-if)#exit
Switch(config)#interface FastEthernet0/1
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface FastEthernet0/23
Switch(config-if)#
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#exit
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)#interface fa 0/23
Switch(config-if)#switchport mode trunk
Switch(config-if)#exit
Switch(config)#exit
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#
```

```
------ ------
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

VLAN Type  SAID       MTU    Parent RingNo BridgeNo Stp  BrdgMode
Transl Trans2
---- ----- ---------- ----- ------ ------ -------- ---- --------
------- -------

Remote SPAN VLANs
--------------------------------------------------------------
---------------

Primary Secondary Type           Ports
------- --------- -----------------
--------------------------------------------------
Switch#
```
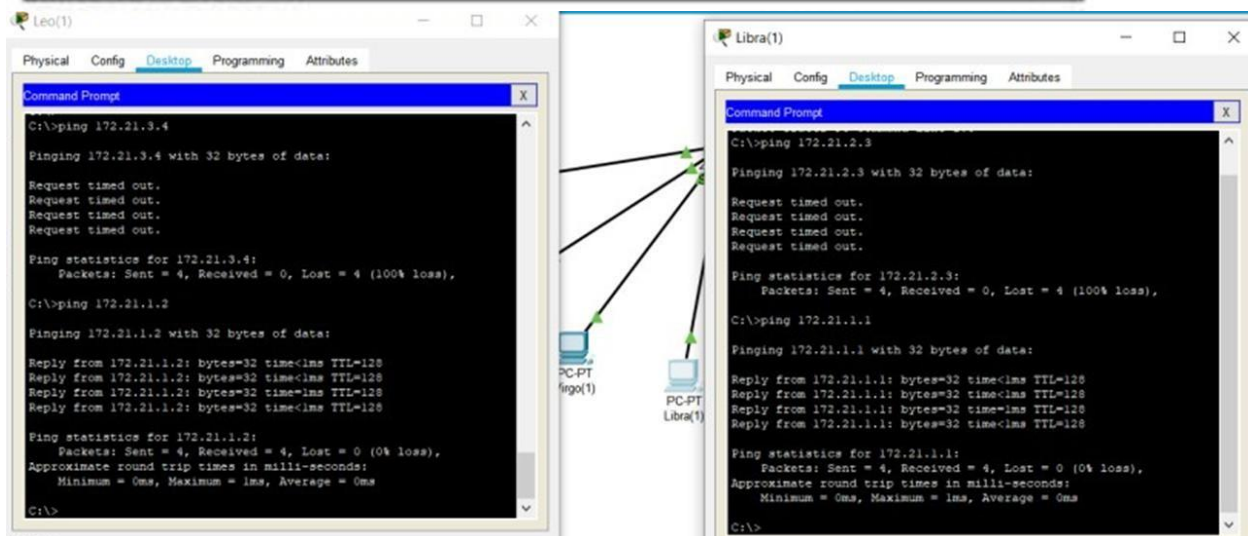
Tugas 10A : pada mode trunk semua vlan bisa digunakan sekaligus

Physical   Config   CLI   Attributes

IOS Command Line Interface

```
Switch(config-if)#clear
                  ^
% Invalid input detected at '^' marker.

Switch(config-if)#exit
Switch(config)#interface Fastethernet 0/1
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 10
Switch(config-if)#interface Fastethernet 0/3
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
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 30
Switch(config-if)#interface Fastethernet 0/6
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 30
Switch(config-if)#
```

Leo(1)   — □ ×

Physical   Config   Desktop   Programming   Attributes

Command Prompt   X

```
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:\>ping 172.21.1.2

Pinging 172.21.1.2 with 32 bytes of data:

Reply from 172.21.1.2: bytes=32 time<1ms TTL=128
Reply from 172.21.1.2: bytes=32 time<1ms TTL=128
Reply from 172.21.1.2: bytes=32 time=1ms TTL=128
Reply from 172.21.1.2: bytes=32 time<1ms TTL=128

Ping statistics for 172.21.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

Libra(1)   — □ ×

Physical   Config   Desktop   Programming   Attributes

Command Prompt   X

```
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:\>ping 172.21.1.1

Pinging 172.21.1.1 with 32 bytes of data:

Reply from 172.21.1.1: bytes=32 time<1ms TTL=128
Reply from 172.21.1.1: bytes=32 time<1ms TTL=128
Reply from 172.21.1.1: bytes=32 time=1ms TTL=128
Reply from 172.21.1.1: bytes=32 time<1ms 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 = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

PC-PT
irgo(1)

PC-PT
Libra(1)

Tugas 12 A : Hasil

Ping PC Leo – PC Aries	= Reply berhasil connect karena masih 1 vlan
Ping PC Leo – PC Aquarius	= RTO gagal karena beda vlan antara PC Leo – PC Aquarius Vlan PC Leo 1 – vlan PC Aquarius 10
Ping PC Leo – PC Pisces	= RTO gagal karena beda vlan antara PC Leo – PC Pisces Vlan PC Leo 1 – vlan PC Pisces 30
Ping PC Libra – PC Cancer	= RTO gagal karena beda vlan antara PC Libra – PC Cancer Vlan PC Libra 1 – vlan PC Cancer 20

| Ping PC Libra – PC Leo | = Reply berhasil connect karena masih 1 vlan |