

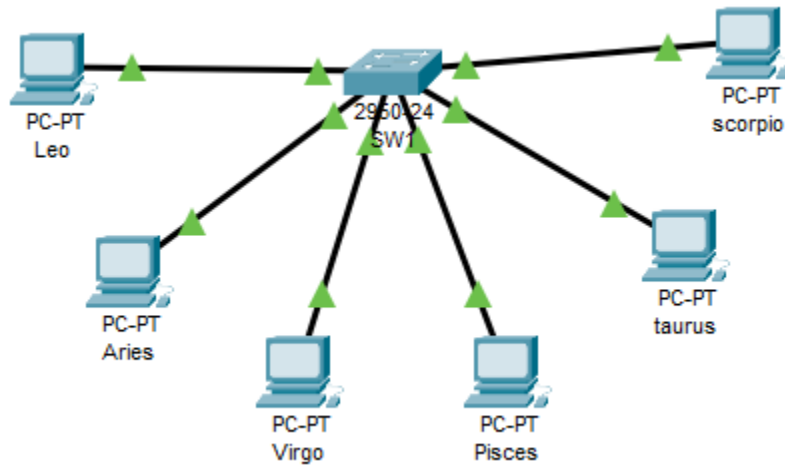
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Kegiatan Praktikum Jaringan Komunikasi Modul 4

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, Fa0/3
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#
```

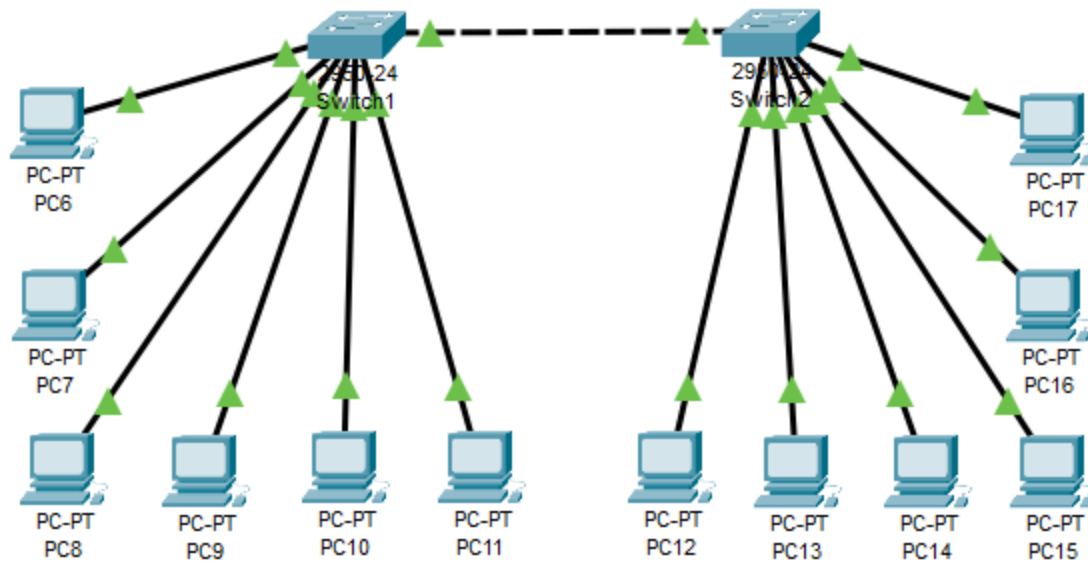
No	Variabel	Nilai
1	Nomor Vlan	10
2	Nama Vlan	Zodiak1
3	Port	0/1 dan 0/4
4	Status	active

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: 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
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

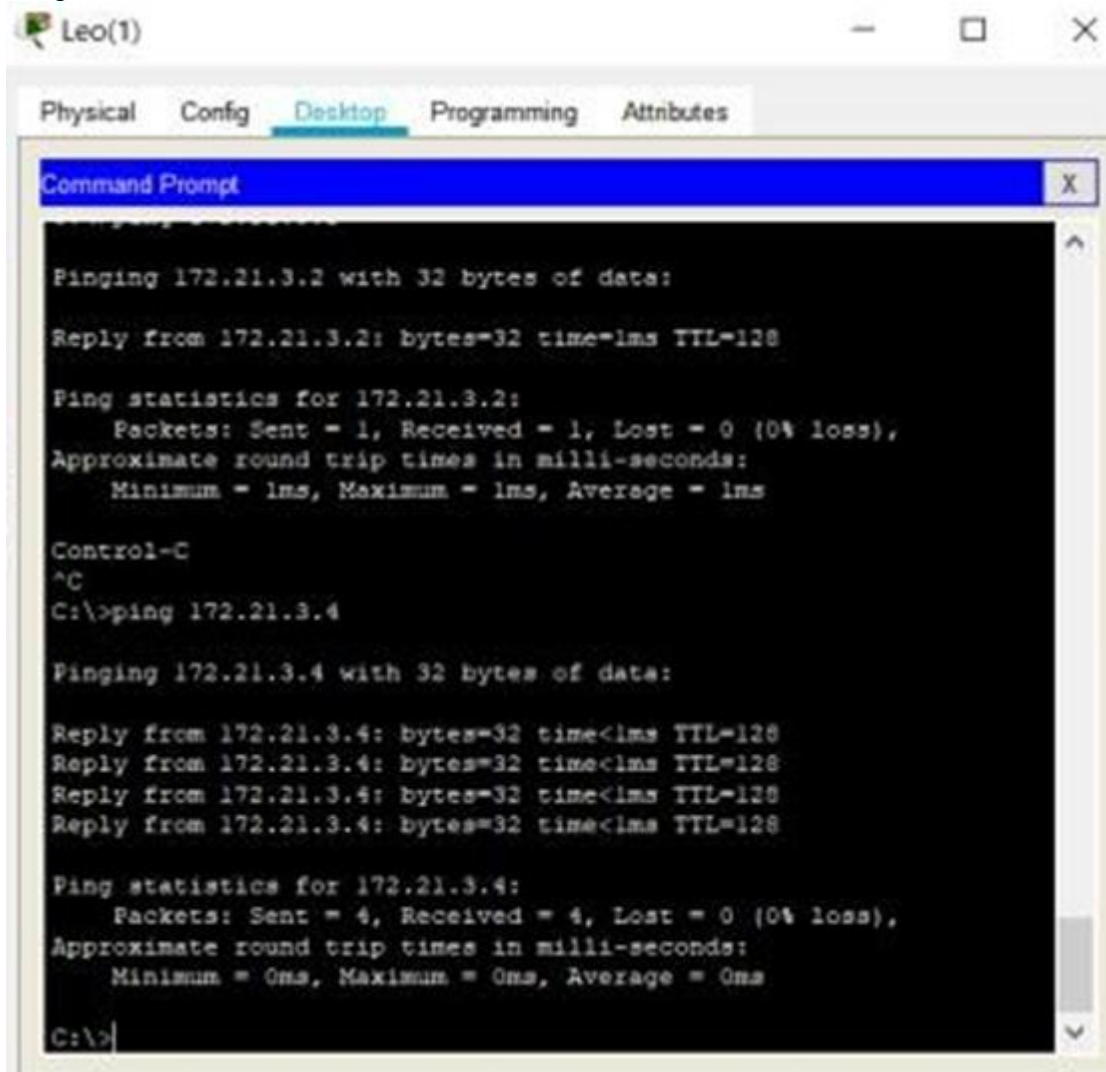
VLAN Type  SAID          MTU   Parent RingNo BridgeNo Stp   BrdgMode
Trans1 Trans2
-----
-----

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

Primary Secondary Type          Ports
-----
-----

Switch#
```

Tugas 7A: Semua vlan berhasil di aktifkan



The screenshot shows a Packet Tracer window titled "Leo(1)" with tabs for Physical, Config, Desktop, Programming, and Attributes. The Desktop tab is active, displaying a Command Prompt window. The Command Prompt shows the results of two ping commands. The first command is "ping 172.21.3.2", which returns "Pinging 172.21.3.2 with 32 bytes of data: Reply from 172.21.3.2: bytes=32 time=1ms TTL=128". The second command is "ping 172.21.3.4", which returns "Pinging 172.21.3.4 with 32 bytes of data: Reply from 172.21.3.4: bytes=32 time<1ms TTL=128" (repeated four times). Both commands show 0% loss and 1ms round trip times.

```
Command Prompt

Pinging 172.21.3.2 with 32 bytes of data:

Reply from 172.21.3.2: bytes=32 time=1ms TTL=128

Ping statistics for 172.21.3.2:
    Packets: Sent = 1, Received = 1, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 1ms

Control-C
^C
C:\>ping 172.21.3.4

Pinging 172.21.3.4 with 32 bytes of data:

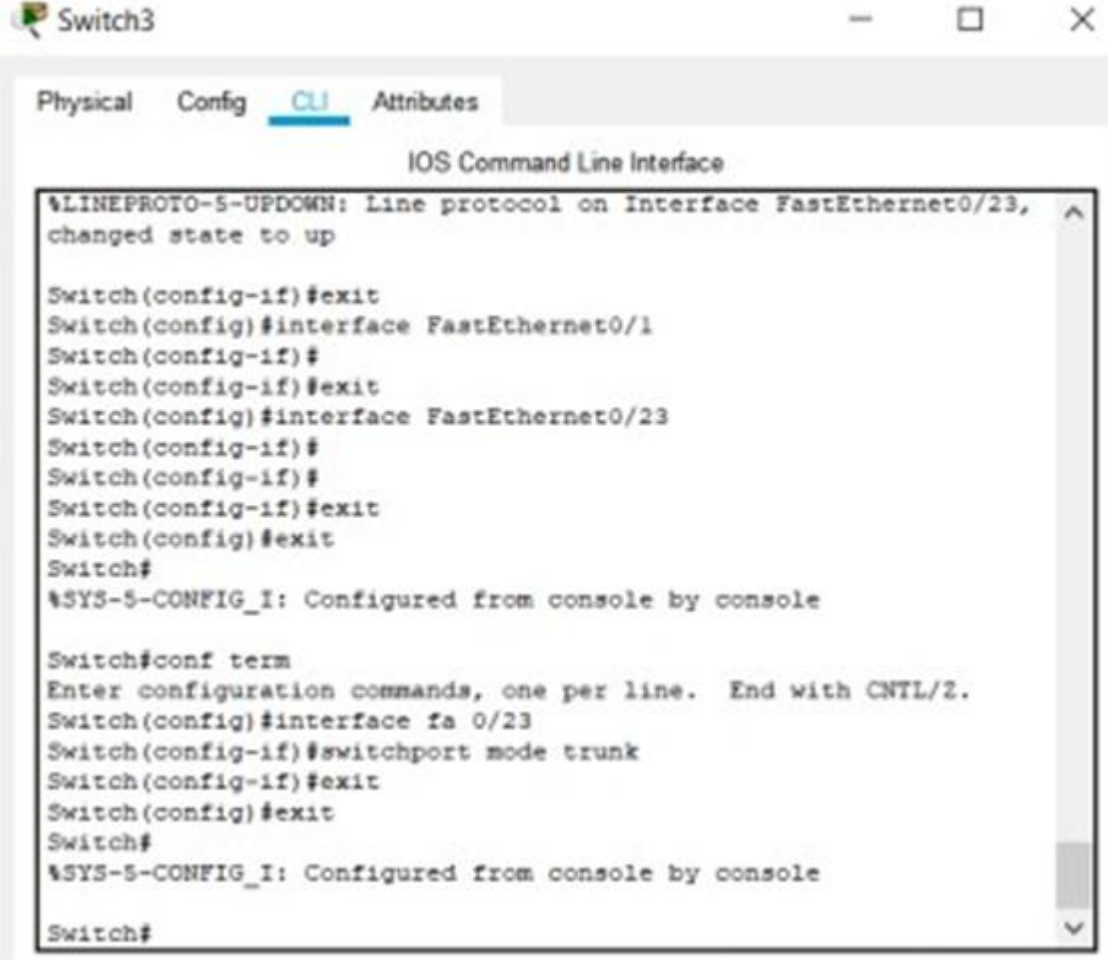
Reply from 172.21.3.4: bytes=32 time<1ms TTL=128
Reply from 172.21.3.4: bytes=32 time<1ms TTL=128
Reply from 172.21.3.4: bytes=32 time<1ms TTL=128
Reply from 172.21.3.4: bytes=32 time<1ms TTL=128

Ping statistics for 172.21.3.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

Tugas 8A:

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



```
%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#
```

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
Trans1 Trans2
-----
-----

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

Primary Secondary Type          Ports
-----
-----

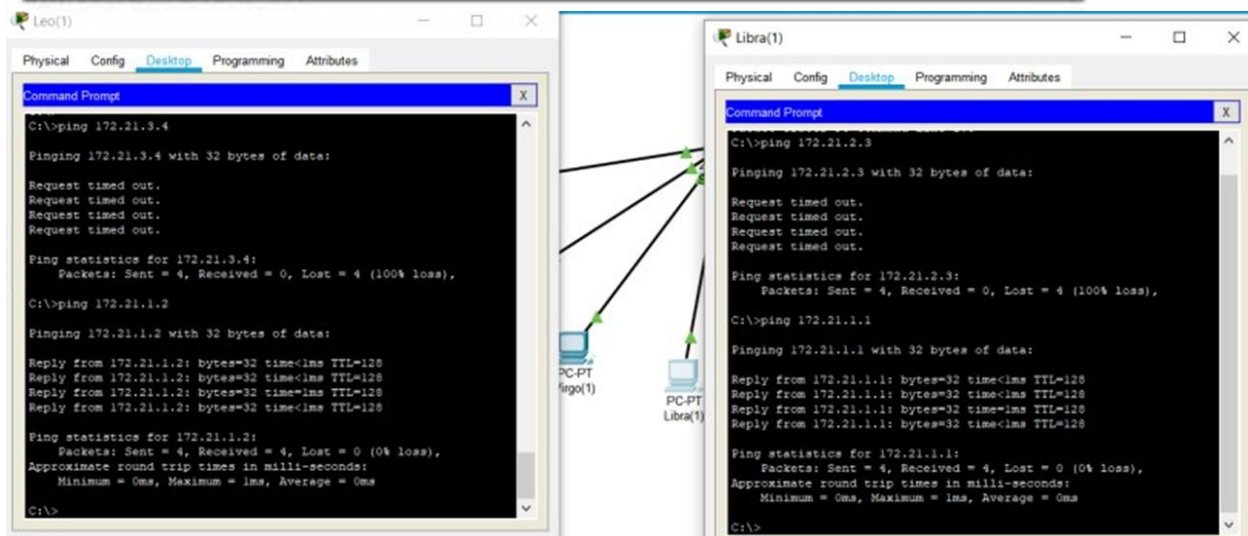
Switch#
```

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)#
```



```

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:\>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),

C:\>

```

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
------------------------	--