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## Modul 4 Kegiatan 1

The top screenshot shows a Cisco Packet Tracer network diagram with a central switch connected to six PCs (leo, aries, virgo, libra, taurus, scorpio). The right pane displays the CLI configuration for Switch0:

```
Switch>
Switch>en
Switch>enable
Switch>conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#vlan 10
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)#int
Switch(config)#interface fast
Switch(config)#interface fastEthernet 0/1
Switch(config-if)#swit
Switch(config-if)#switchport ac
Switch(config-if)#switchport mode access
Switch(config-if)#swi
Switch(config-if)#switchport ac
Switch(config-if)#switchport mode access
Switch(config-if)#swi
Switch(config-if)#switchport access
Switch(config-if)#switchport access vian 10
Switch(config-if)#int
Switch(config-if)#int
Switch(config-if)#interface fastethrnet 0/4
Switch(config-if)#interface fastEthernet 0/4
Switch(config-if)#swi
Switch(config-if)#switchport mode a
Switch(config-if)#switchport mode access
Switch(config-if)#swi
```

The bottom screenshot shows the same network diagram. The right pane displays the CLI configuration for Switch0, showing the continuation of the configuration:

```
Switch(config-if)#swi
Switch(config-if)#switchport mode access
Switch(config-if)#swi
Switch(config-if)#switchport ac
Switch(config-if)#switchport access vian 10
Switch(config-if)#swi
Switch(config)#show vlan
Switch(config)#
Switch(config)#int
Switch(config)#interface fas
Switch(config)#interface fastEthernet 0/2
Switch(config-if)#swi
Switch(config-if)#switchport acc
Switch(config-if)#switchport mode acc
Switch(config-if)#switchport mode access
Switch(config-if)#swi
Switch(config-if)#switchport acc
Switch(config-if)#switchport access vian 20
Switch(config-if)#int
Switch(config-if)#interface fastEthernet 0/5
Switch(config-if)#swi
Switch(config-if)#switchport mode
Switch(config-if)#switchport mode acc
Switch(config-if)#switchport mode access
Switch(config-if)#swi
Switch(config-if)#switchport acc
Switch(config-if)#switchport access vian 20
Switch(config-if)#int
Switch(config-if)#exit
Switch(config)#int
Switch(config)#interface fast
Switch(config)#interface fastEthernet 0/3
Switch(config-if)#swi
```

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical

Physical

x 444, y 459

[Root]

10:35:30

Time: 01:09:06

Realtime

Simulation

Remote Network

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

Switch(config-if)#switchport acc  
Switch(config-if)#switchport mode acc  
Switch(config-if)#swi  
Switch(config-if)#switchport acc  
Switch(config-if)#switchport access vlan 20  
Switch(config-if)#int  
Switch(config-if)#interface fastEthernet 0/5  
Switch(config-if)#swi  
Switch(config-if)#switchport mode  
Switch(config-if)#switchport mode acc  
Switch(config-if)#switchport mode access  
Switch(config-if)#swi  
Switch(config-if)#switchport acc  
Switch(config-if)#switchport access vlan 20  
Switch(config-if)#int  
Switch(config-if)#exit  
Switch(config)#int  
Switch(config)#interface fast  
Switch(config)#interface fastEthernet 0/3  
Switch(config-if)#swi  
Switch(config-if)#switchport mode acc  
Switch(config-if)#switchport mode access  
Switch(config-if)#swi  
Switch(config-if)#switchport acc  
Switch(config-if)#switchport access vlan 30  
Switch(config-if)#int  
Switch(config-if)#interface fastEthernet 0/6  
Switch(config-if)#swi  
Switch(config-if)#switchport mode ac  
Switch(config-if)#switchport mode access  
Switch(config-if)#swi  
Switch(config-if)#switchport acc  
Switch(config-if)#switchport access vlan 30  
Switch(config-if)#exit  
Switch(config)#  
Switch(config)#  
Switch(config)#2  
Switch#  
\$SYS-5-CONFIG\_I: Configured from console by console

Ctrl+F6 to exit CLI focus

Copy Paste

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Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical

Physical

x 444, y 459

[Root]

10:35:00

Time: 01:09:40

Realtime

Simulation

Remote Network

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

Switch#  
\$SYS-5-CONFIG\_I: Configured from console by console  
Switch#show vlan

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 zodiaki	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	

VLAN Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	Trans1	Trans2
1	enet	100001	1500	-	-	-	-	0	0
10	enet	100010	1500	-	-	-	-	0	0
20	enet	100020	1500	-	-	-	-	0	0
30	enet	100030	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

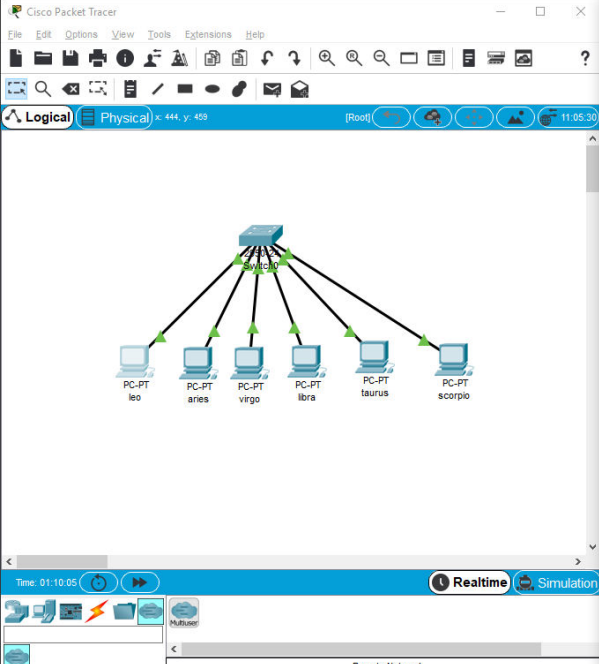
Remote SPAN VLANs

Primary	Secondary	Type	Ports
Switch#			

Ctrl+F6 to exit CLI focus

Copy Paste

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Switch0

Physical Config **CLI** Attributes

IOS Command Line Interface

```

Switch#
Switch#show vlan 10
% Invalid input detected at '^' marker.
Switch#show vlan id 10

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

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

Switch#show vlan id 30

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

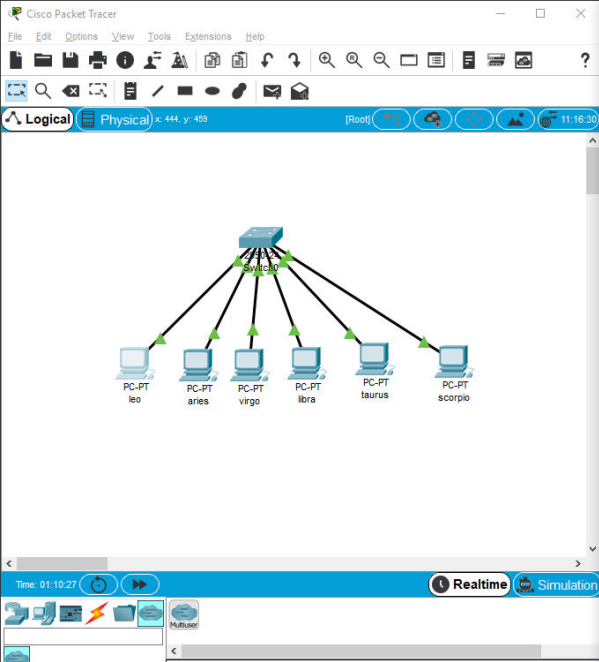
VLAN Type  SAID      MTU   Parent RingNo BridgeNo Stp  BrgdMode Trans1 Trans2
-----
30  enet  100030  1500   -     -     -     -     0       0

Switch#

```

Ctrl+F6 to exit CLI focus

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Switch0

Physical Config **CLI** Attributes

IOS Command Line Interface

```

Switch#show vlan id 20

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

VLAN Type  SAID      MTU   Parent RingNo BridgeNo Stp  BrgdMode 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  BrgdMode Trans1 Trans2
-----
30  enet  100030  1500   -     -     -     -     0       0

Switch#

Switch con0 is now available

Press RETURN to get started.

```

Ctrl+F6 to exit CLI focus

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No	Variable	Nilai vlan 10	Nilai vlan 20	Nilai vlan 30
1	Nomer vlan	10	20	30
2	Nama vlan	Zodiak1	Zodiak2	Zodiak3
3	Port	Fa 0/1, fa 0/4	Fa 0/2 fa 0/5	Fa 0/3, fa 0/6
4	status	Active	Active	Active

## Kegiatan 2

### Switch 0

Cisco Packet Tracer - C:\Users\asus\Downloads\modul 3 kegiatan 2.pkt

File Edit Options View Tools Extensions Help

Logical Physical x: 733, y: 221

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

```
Switch>en
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 zodiak1
% Invalid input detected at '^' marker.
Switch(config)#vlan 10
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)#
Switch(config)#int
Switch(config)#interface fa
Switch(config)#interface fastEthernet 0/1
Switch(config-if)#swi
Switch(config-if)#switchport mode acc
```

Ctrl+F6 to exit CLI focus

Copy Paste

Top

Time: 01:17:48

Realtime Simulation

Automatically Choose Connection Type

Cisco Packet Tracer - C:\Users\asus\Downloads\modul 3 kegiatan 2.pkt

File Edit Options View Tools Extensions Help

Logical Physical x: 735, y: 419

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

```
Switch(config)#interface fa
Switch(config)#interface fastEthernet 0/1
Switch(config-if)#swi
Switch(config-if)#switchport mode acc
Switch(config-if)#switchport mode access
Switch(config-if)#swi
Switch(config-if)#switchport acc
Switch(config-if)#switchport access vlan 10
Switch(config-if)#switchport mode access
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)#exit
Switch(config)#
```

Ctrl+F6 to exit CLI focus

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Top

Time: 01:18:24

Realtime Simulation

Automatically Choose Connection Type





Cisco Packet Tracer - C:\Users\asus\Downloads\modul 3 kegiatan 2.pkt

File Edit Options View Tools Extensions Help

Logical Physical x: 646, y: 143 [Root] 16:43:30

Time: 01:21:15 Realtime Simulation

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

```
Switch(config-if)#swi
Switch(config-if)#switchport mode trunk

Switch(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/7, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/7, changed state to up

Switch(config-if)#exit
Switch(config)#^Z
Switch#
%SYS-6-CONFIG_I: Configured from console by console

Switch#show int
Switch#show interfaces fas
Switch#show interfaces fastEthernet 0/7 swi
Switch#show interfaces fastEthernet 0/7 switchport
Name: Fa0/7
Switchport: Enabled
Administrative Mode: trunk
Operational Mode: trunk
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
Appliance trust: none
```

Ctrl+F6 to exit CLI focus

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Cisco Packet Tracer - C:\Users\asus\Downloads\modul 3 kegiatan 2.pkt

File Edit Options View Tools Extensions Help

Logical Physical x: 622, y: 403 [Root] 16:56:30

Time: 01:21:41 Realtime Simulation

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

```
Switch#show interfaces fastEthernet 0/7 trunk
% Invalid input detected at '^' marker.

Switch#show interfaces fastEthernet 0/7 trunk
% Invalid input detected at '^' marker.

Switch#show interfaces fastEthernet 0/7 trunk
Switch#show interfaces fastEthernet 0/7 trunking
% Invalid input detected at '^' marker.

Switch#
%LINK-3-UPDOWN: Interface FastEthernet0/7, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/7, changed state to down
%LINK-6-CHANGED: Interface FastEthernet0/7, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/7, changed state to up

Switch#
Switch#show
Switch#show in
Switch#show interfaces fas
Switch#show interfaces fastEthernet 0/7 trunk
% Invalid input detected at '^' marker.

Switch#show interface fastEthernet 0/7 trunk
% Invalid input detected at '^' marker.

Switch#show interfaces fastEthernet 0/7 tr
Switch#show interfaces fastEthernet 0/7 trunk
Switch#show interfaces fastEthernet 0/7 trunk
% Invalid input detected at '^' marker.
```

Ctrl+F6 to exit CLI focus

Copy Paste

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Cisco Packet Tracer - C:\Users\asus\Downloads\modul 3 kegiatan 2.pkt

File Edit Options View Tools Extensions Help

Logical

Physical

x: 551, y: 450

[Root]

17:14:30

Time: 01:22:17

Realtime

Simulation

Automatically Choose Connection Type

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

Switch#show vlan

VLAN Name	Status	Ports
1 default	active	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	
1008 trnet-default	active	

VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	Trans1	Trans2
1	enet	100001	1500	-	-	-	-	-	0	0
10	enet	100010	1500	-	-	-	-	-	0	0
20	enet	100020	1500	-	-	-	-	-	0	0
30	enet	100030	1500	-	-	-	-	-	0	0
1002	fddi	101002	1500	-	-	-	-	-	0	0
1003	tr	101003	1500	-	-	-	-	-	0	0
1004	fdnet	101004	1500	-	-	-	ieee	-	0	0
1008	trnet	101008	1500	-	-	-	ibm	-	0	0

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

Remote SPAN VLANs

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

Switch#

Switch#

Switch#

Switch#

Ctrl+F6 to exit CLI focus

Copy Paste

☐ Top

Cisco Packet Tracer - C:\Users\asus\Downloads\modul 3 kegiatan 2.pkt

File Edit Options View Tools Extensions Help

Logical

Physical

x: 551, y: 450

[Root]

17:46:00

Time: 01:23:20

Realtime

Simulation

Automatically Choose Connection Type

leo

Physical Config Desktop Programming Attributes

Command Prompt

C:\>ping 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:

Request timed out.

Request timed out.

Request timed out.

Request timed out.

C:\>ping 172.21.1.2:

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

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=71ms 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

C:\>ping 172.21.1.3:

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

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 71ms, Average = 17ms

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.

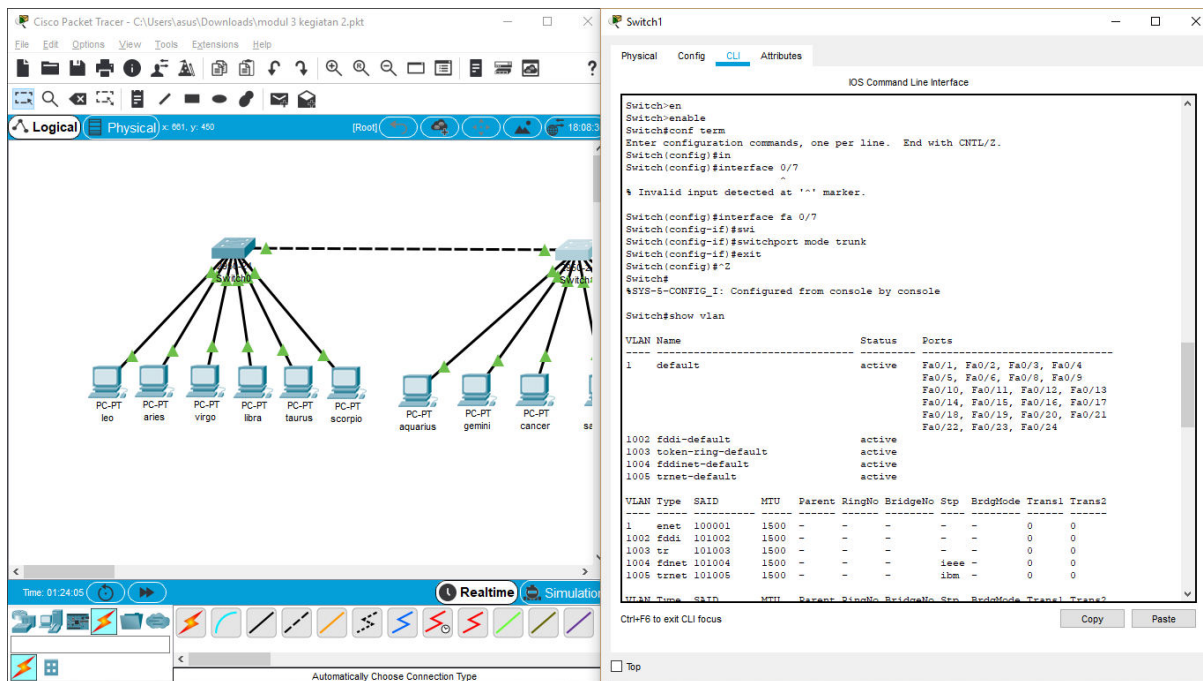
C:\>ping 172.21.3.4:

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

C:\>

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## SWITCH 1



The network topology shows two switches connected by a dashed line. The left switch is connected to six PCs: leo, aries, virgo, libra, taurus, and scorpio. The right switch is connected to three PCs: aquarius, gemini, and cancer. The CLI window for Switch1 shows the following configuration:

```
Switch>en
Switch>enable
Switch>conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#in
Switch(config)#interface 0/7

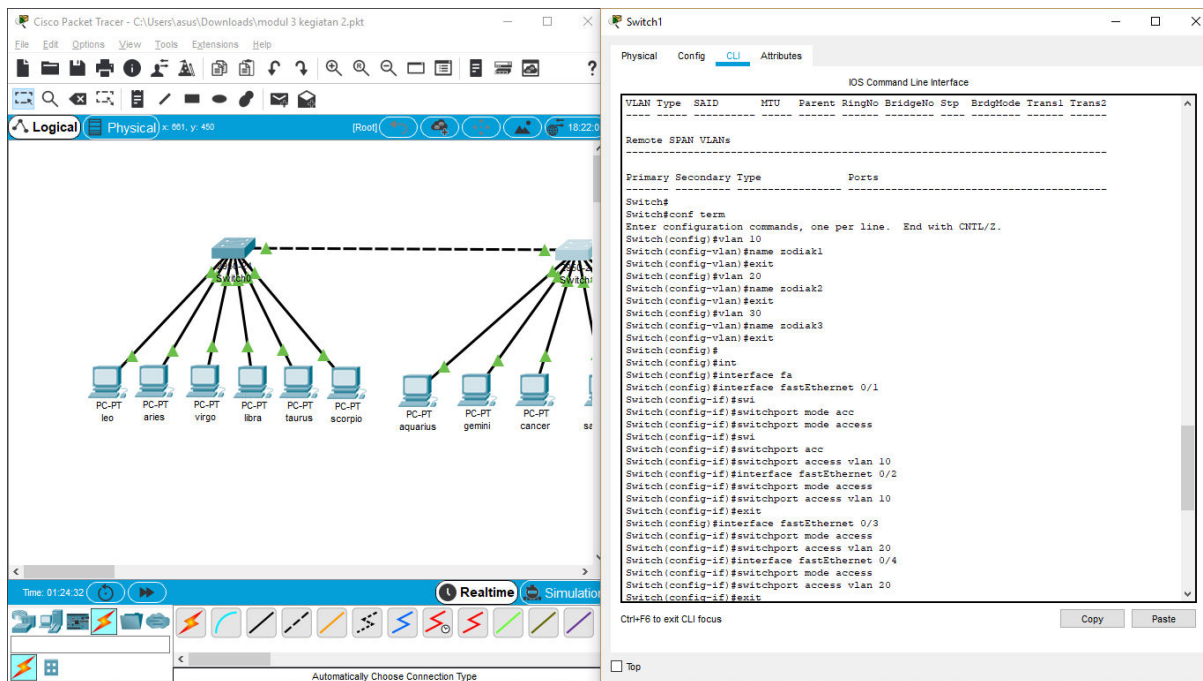
% Invalid input detected at '^' marker.

Switch(config)#interface fa 0/7
Switch(config-if)#swi
Switch(config-if)#switchport mode trunk
Switch(config-if)#exit
Switch(config)#2
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#show vlan

VLAN Name                Status    Ports
-----
1    default                active    Fa0/1, Fa0/2, Fa0/3, Fa0/4,
                                           Fa0/5, Fa0/6, Fa0/8, Fa0/9,
                                           Fa0/10, Fa0/11, Fa0/12, Fa0/13,
                                           Fa0/14, Fa0/15, Fa0/16, Fa0/17,
                                           Fa0/19, 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  BrgdMode Trans1 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
```



The CLI window for Switch1 shows the following configuration:

```
Switch#
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#vlan 10
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)#
Switch(config)#int
Switch(config)#interface fa
Switch(config)#interface fastEthernet 0/1
Switch(config-if)#swi
Switch(config-if)#switchport mode acc
Switch(config-if)#switchport mode access
Switch(config-if)#swi
Switch(config-if)#switchport acc
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)#exit
Switch(config)#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)#exit
```



Cisco Packet Tracer - C:\Users\asus\Downloads\modul 3 kegiatan 2.pkt

File Edit Options View Tools Extensions Help

Logical Physical x: 551, y: 459

[Root]

18:30:3

PC-PT leo PC-PT aries PC-PT virgo PC-PT libra PC-PT taurus PC-PT scorpio PC-PT aquarius PC-PT gemini PC-PT cancer

Time: 01:24:49

Realtime Simulation

Automatically Choose Connection Type

Switch1

Physical Config CLI Attributes

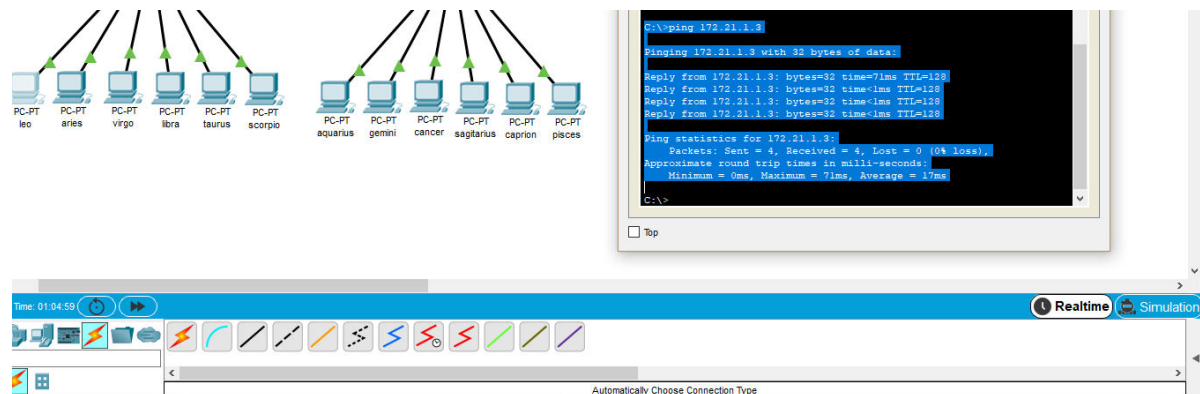
IOS Command Line Interface

Switch(config-if)#switchport mode acc  
Switch(config-if)#switchport mode access  
Switch(config-if)#swi  
Switch(config-if)#switchport acc  
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)#exit  
Switch(config)#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)#exit  
Switch(config)#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)#exit  
Switch(config)#  
  
Switch con0 is now available  
  
Press RETURN to get started.  
  
Ctrl+F6 to exit CLI focus  

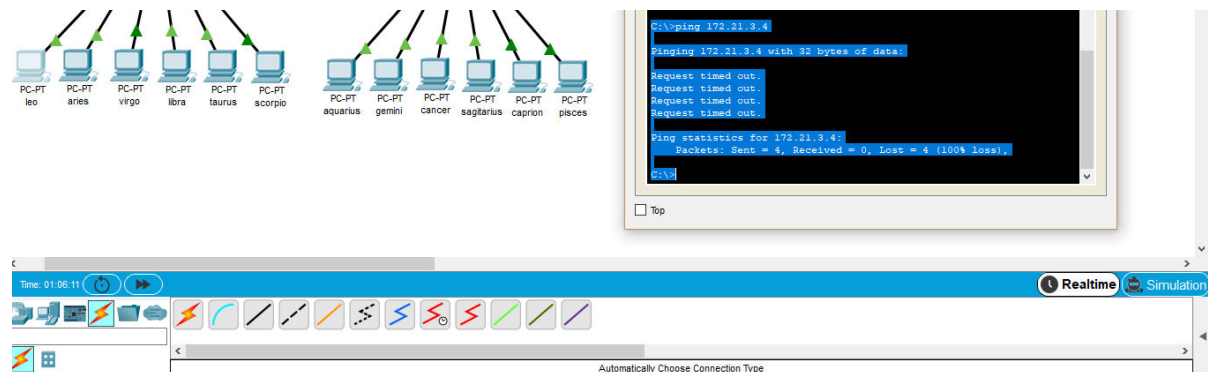
Copy Paste

☐ Top

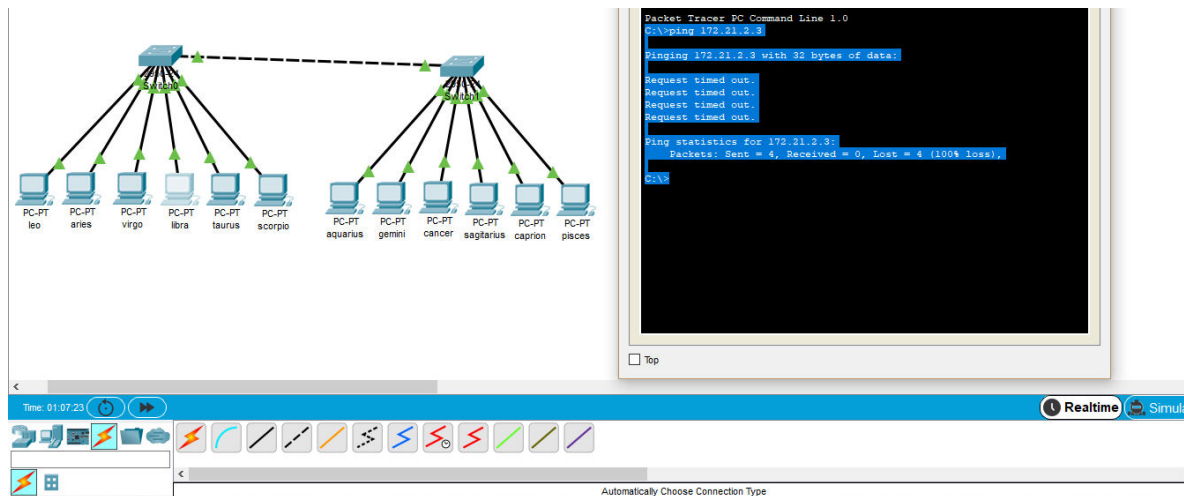
## Leo ke aquarius



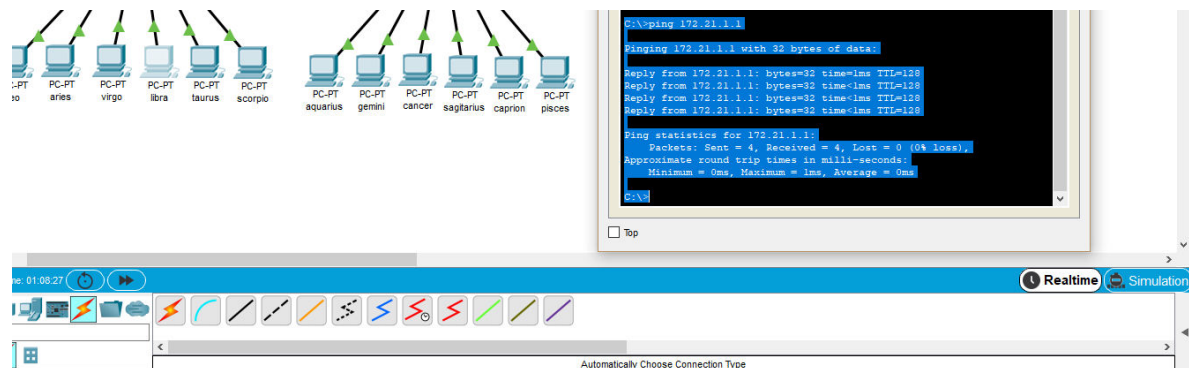
## Leo ke pisces



Libra ke cancer



Libra ke leo



Dapat disimpulkan apabila PC berada pada VLAN yang sama, maka akan menghasilkan status Reply. Akan tetapi jika berada pada VLAN yang berbeda akan menghasilkan status Request Time Out (RTO).