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Modul : 2

Kegiatan 1 topologi 1

The image shows the Cisco Packet Tracer interface. On the left, a network topology is displayed with a central switch connected to six PCs labeled leo, aries, virgo, libra, taurus, and scorpio. The interface includes a menu bar, a toolbar, and a status bar. On the right, a CLI window for Switch0 is open, showing the following configuration commands:

```
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 access
% Incomplete command.
Switch(config-if)#swi
Switch(config-if)#switchport ac
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 mode access
Switch(config-if)#vian 10
Switch(config-if)#int
Switch(config-if)#int
Switch(config-if)#interface fastethernet 0/4
% Invalid input detected at '' marker.
Switch(config-if)#int
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
Switch(config-if)#switchport ac
Switch(config-if)#switchport access vian 10
```

The image shows the Cisco Packet Tracer interface. On the left, a network topology is displayed with a central switch connected to six PCs labeled leo, aries, virgo, libra, taurus, and scorpio. The interface includes a menu bar, a toolbar, and a status bar. On the right, a CLI window for Switch0 is open, showing the following configuration commands:

```
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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 access
% Incomplete command.
Switch(config-if)#swi
Switch(config-if)#switchport ac
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 mode access
Switch(config-if)#vian 10
Switch(config-if)#int
Switch(config-if)#int
Switch(config-if)#interface fastethernet 0/4
% Invalid input detected at '' marker.
Switch(config-if)#int
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
Switch(config-if)#switchport ac
Switch(config-if)#switchport access vian 10
```

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 822, y: 430

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

```
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-if)#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 vian 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 vian 30
Switch(config-if)#exit
Switch(config)#
```

Ctrl+F8 to exit CLI focus

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Time: 00:38:06

Realtime Simulation

Remote Network

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 242, y: 397

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

```
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   sodiak1                 active  Fa0/1, Fa0/4
20   sodiak2                 active  Fa0/2, Fa0/5
30   sodiak3                 active  Fa0/3, Fa0/6
1002 fddi-default          active
1003 token-ring-default     active
1004 fddi-net-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 tg      101003    1500  -      -      -    -      0      0
1004 fddi-net 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#
Switch#
Switch#
```

Ctrl+F8 to exit CLI focus

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Time: 00:40:26

Realtime Simulation

Remote Network

Cisco Packet Tracer
File Edit Options View Tools Extensions Help
Logical Physical x: 242, y: 387
[Root] 21:00:30

Time: 00:41:57 Realtime Simulation
Remote Network

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  enst  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  enst  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  enst  100030  1500    -      -      -      -      0      0
Switch#

```

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 topologi 2

Switch1

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

File Edit Options View Tools Extensions Help

Logical Physical x: 390, y: 45

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 PC-PT sagittarius PC-PT capricorn PC-PT pisces

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

```
$LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/7,
changed state to up

Switch>en
Switch>enable
Switch>conf term
Enter configuration commands, one per line. End with CTRL/Z.
Switch(config)#vlan zodias1
^
Invalid input detected at '^' marker

Switch(config)#vlan zodias1
^
Invalid input detected at '^' marker

Switch(config)#vlan 10
Switch(config-vlan)#name zodias1
Switch(config-vlan)#exit
Switch(config-vlan)#name zodias2
Switch(config-vlan)#exit
Switch(config-vlan)#name zodias3
Switch(config-vlan)#exit
Switch(config-vlan)#exit
Switch(config)#
```

Ctrl+F6 to exit CLI focus

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Time: 00:15:18

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: 914, y: 470

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 PC-PT sagittarius PC-PT capricorn PC-PT pisces

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)#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)#exit
Switch(config)#
```

Ctrl+F6 to exit CLI focus

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Time: 00:22:47

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: 724, y: 349 [Root] 16:58:30

Time: 00:33:52 Realtime Simulation

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

```
Switch(config)#interface fa 0/7
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)#
Switch#
SYS-5-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
Operational private-vlan: none
Trunking VLANs Enabled: All
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL
Protected: false
hoamtlance trust: none
```

Ctrl+F6 to exit CLI focus

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File Edit Options View Tools Extensions Help

Logical Physical x: 728, y: 75 [Root] 22:35:30

Time: 00:45:05 Realtime Simulation

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

```
Switch#show vlan

VLAN Name                Status    Ports
-----
1    default                active    Fa0/6, 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   sodiak1                active    Fa0/4, Fa0/4
20   sodiak2                active    Fa0/2, Fa0/5
30   sodiak3                active    Fa0/3, Fa0/6
1002 fddi-default          active
1003 cbsen-zing-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
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   -       -       -       isl     0       0

VLAN Type  SAID      MTU   Parent  RingNo BridgeNo Stp    BrgdMode Trans1 Trans2
-----
Remote SPAN VLANs
-----
Primary Secondary Type      Ports
-----
Switch#
Switch#
Switch#
Switch#
```

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: 717, y: 100

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 PC-PT sagittarius PC-PT capricorn PC-PT pisces

Time: 00:50:39 Realtime Simulation

Automatically Choose Connection Type

leo

Physical Config Desktop Programming Attributes

Command Prompt

```

Packet 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.
Request timed out.

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

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:\>

```

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Switch 2

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

File Edit Options View Tools Extensions Help

Logical Physical x: 1060, y: 272

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 PC-PT sagittarius PC-PT capricorn PC-PT pisces

Time: 00:54:16 Realtime Simulation

Automatically Choose Connection Type

Switch1

Physical Config CLI Attributes

IOS Command Line Interface

```

Switch(config)#interface fa 0/7
Switch(config-if)#swi
Switch(config-if)#switchport mode trunk
Switch(config-if)#exit
Switch(config)#?
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, Fa0/18, 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	Transl
1	enet	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

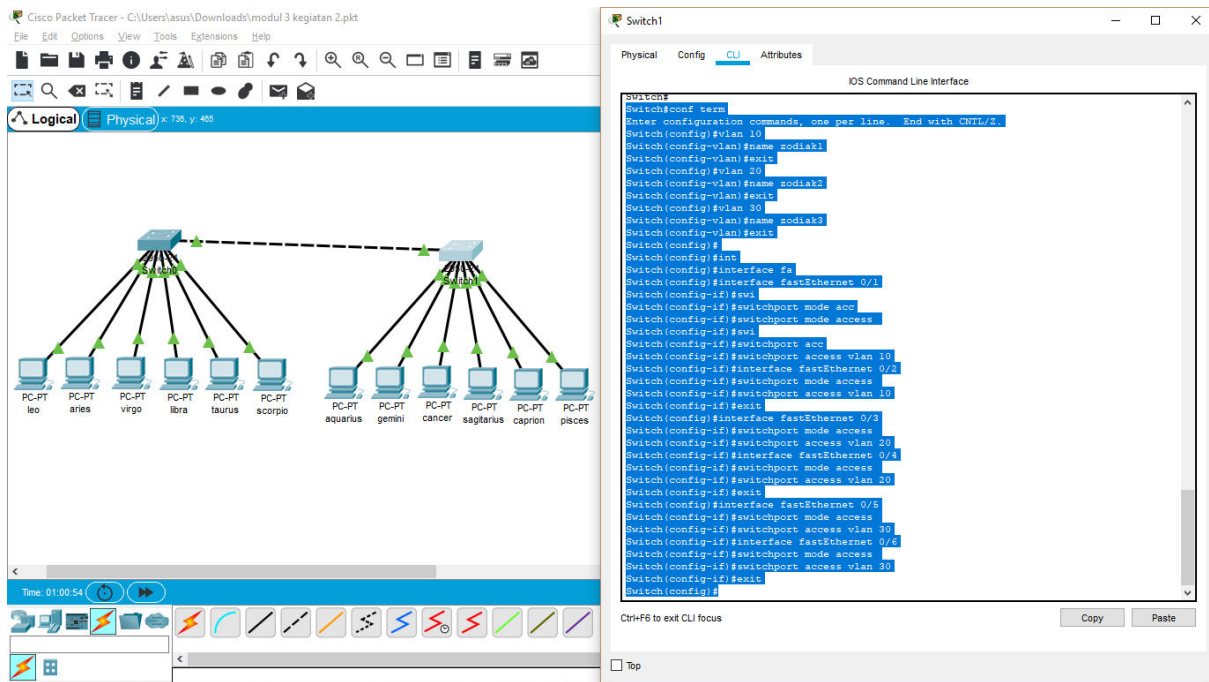
Remote SPAN VLAN:

Primary Secondary Type Ports

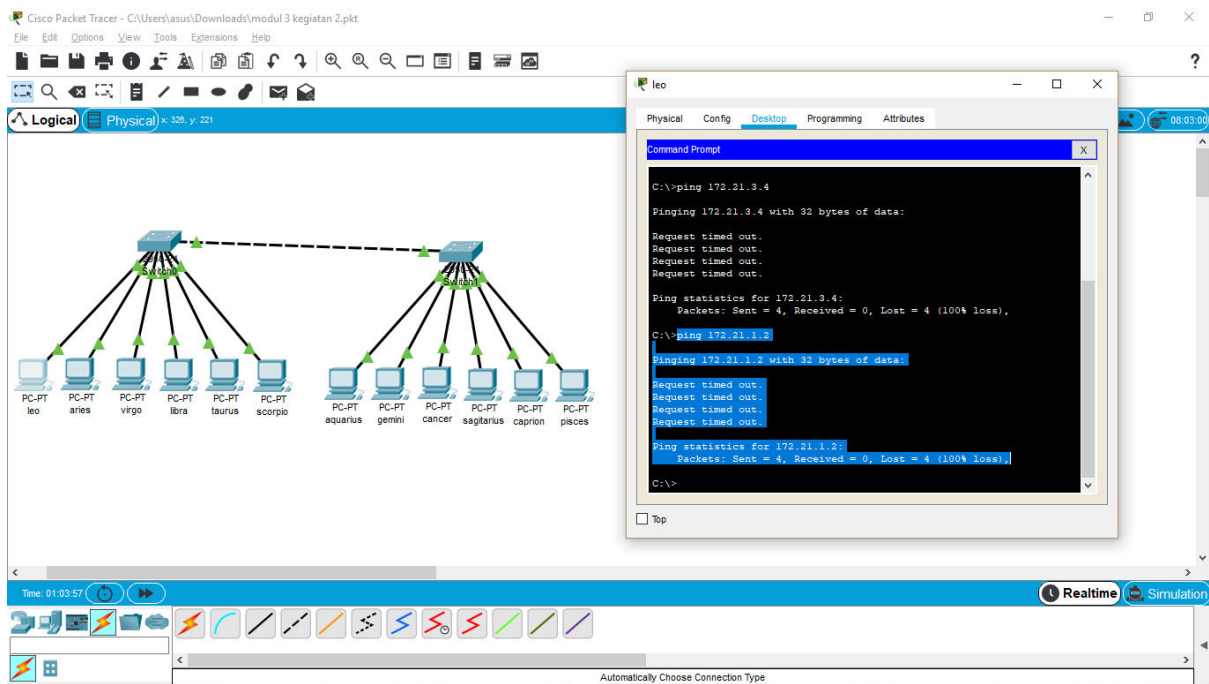
Switch:

Ctrl+F6 to exit CLI focus

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Leo ke aries



Leo ke aquarius

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

File Edit Options View Tools Extensions Help

Logical Physical x: 542, y: 475

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 PC-PT sagittarius PC-PT capricorn PC-PT pisces

Time: 01:04:59 Realtime Simulation

Automatically Choose Connection Type

leo

Physical Config Desktop Programming Attributes

Command Prompt

```
Pinging 172.21.1.2 with 32 bytes of data:  
Request timed out.  
Request timed out.  
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:\>ping 172.21.1.3  
Pinging 172.21.1.3 with 32 bytes of data:  
Reply from 172.21.1.3: bytes=32 time=7ms 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 = 7ms, Average = 17ms  
C:\>
```

Leo ke pisces

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

File Edit Options View Tools Extensions Help

Logical Physical x: 1089, y: 470

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 PC-PT sagittarius PC-PT capricorn PC-PT pisces

Time: 01:06:11 Realtime Simulation

Automatically Choose Connection Type

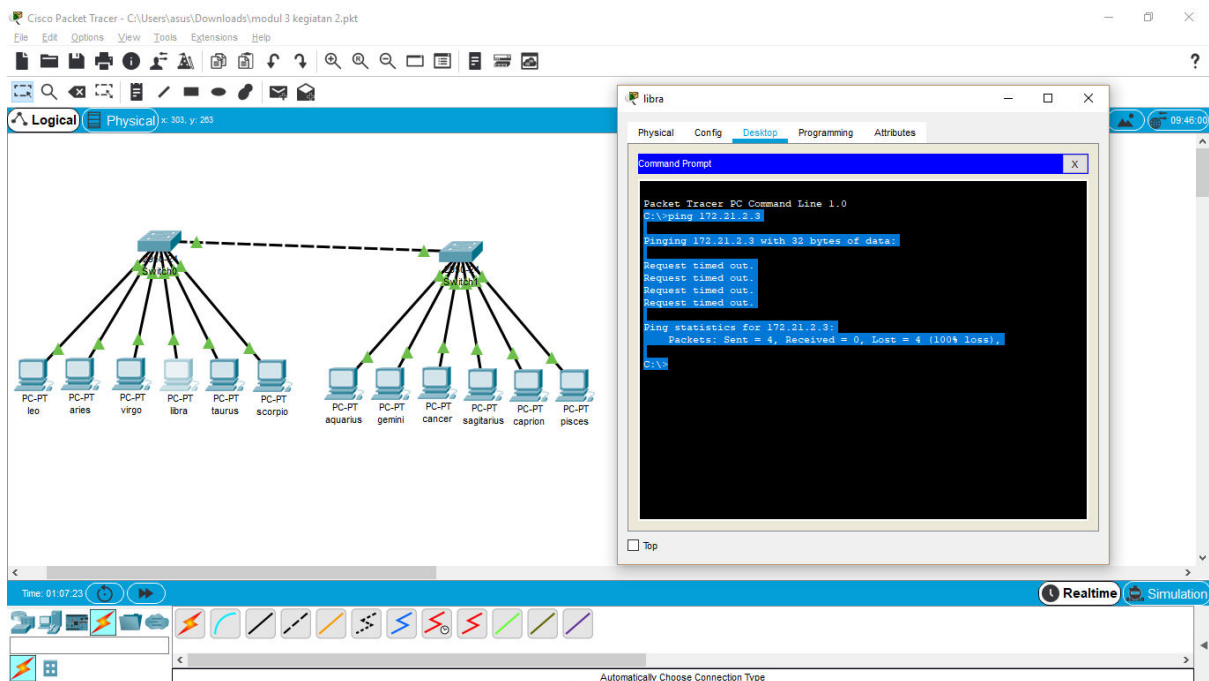
leo

Physical Config Desktop Programming Attributes

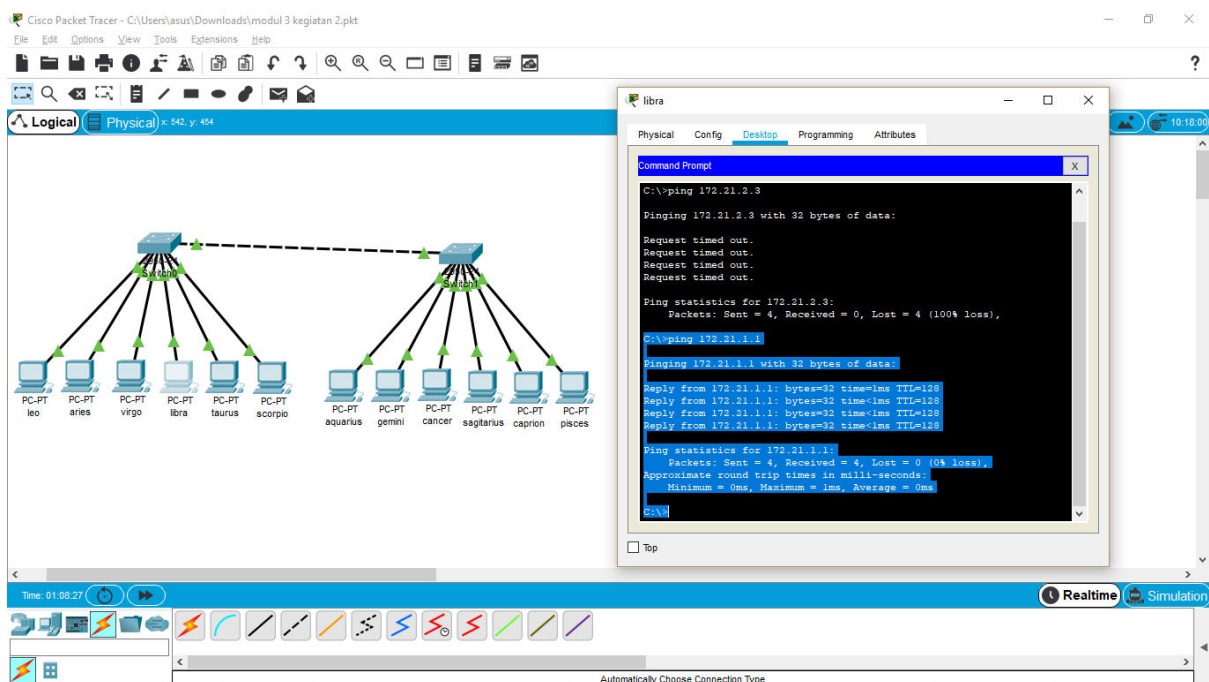
Command Prompt

```
Pinging 172.21.1.3 with 32 bytes of data:  
Reply from 172.21.1.3: bytes=32 time=7ms 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 = 7ms, 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.  
Request timed out.  
Ping statistics for 172.21.3.4:  
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),  
C:\>
```


Libra ke cancer



Libra ke leo



Dari hasil percobaan diatas, 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