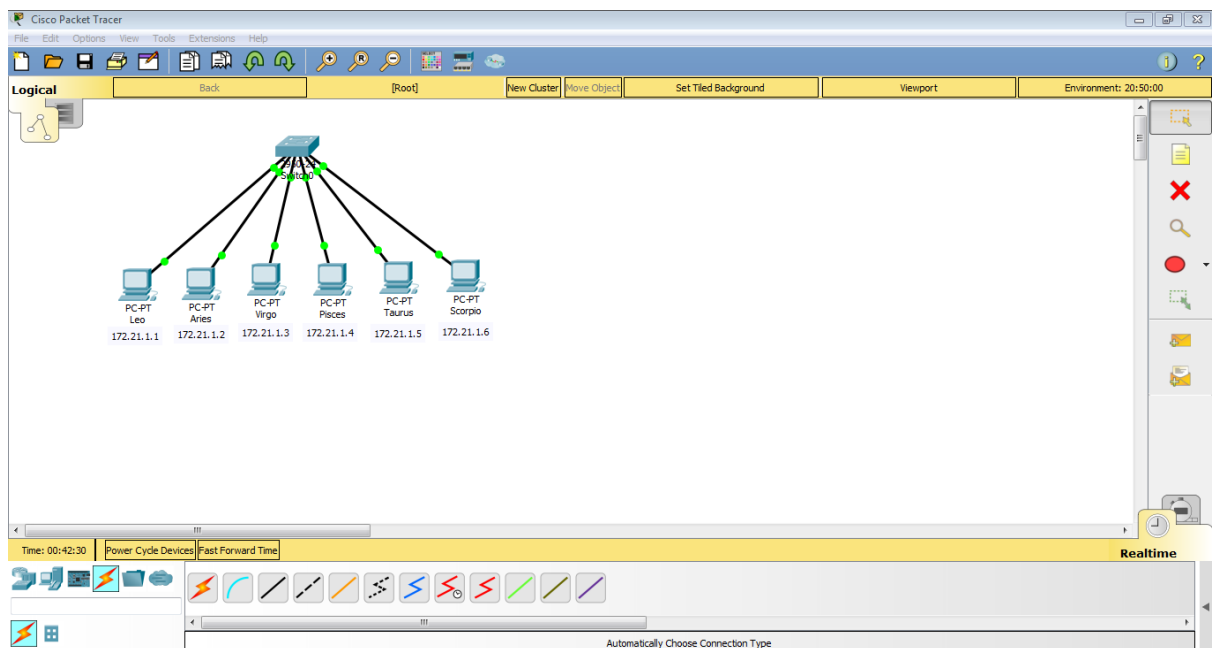


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Class : X

Modul 4

1. Kegiatan 1



a. Membuat 3 VLAN pada mode user atau mode privileged

```
Switch0
Physical Config CLI Attributes
IOS Command Line Interface

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/4, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/5, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/5, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/6, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/6, changed state to up

Switch>en
Switch#config term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#int fa 0/1
Switch(config-if)#
Switch(config-if)#
Switch(config-if)#^Z
Switch#
%SYS-6-CONFIG_I: Configured from console by console

Switch#config term
Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#vlan 10
Switch(config-vlan)#name zodiak1
Switch(config-vlan)#ex
Switch(config-vlan)#name zodiak2
Switch(config-vlan)#ex
Switch(config-vlan)#name zodiak3
Switch(config-vlan)#ex
```

- b. Mengkonfigurasi port port switch ke dalam VLAN yang sudah dibuat

```
Switch(config)#int fa 0/1
Switch(config-if)#sw mode access
Switch(config-if)#sw access vlan 10
Switch(config-if)#int fa 0/4
Switch(config-if)#sw mode access
Switch(config-if)#sw access vlan 10
Switch(config-if)#int fa 0/2
Switch(config-if)#sw mode access
Switch(config-if)#sw access vlan 20
Switch(config-if)#int fa 0/5
Switch(config-if)#sw mode access
Switch(config-if)#sw access vlan 20
Switch(config-if)#int fa 0/3
Switch(config-if)#sw mode access
Switch(config-if)#sw access vlan 30
Switch(config-if)#int fa 0/6
Switch(config-if)#sw mode access
Switch(config-if)#sw access vlan 30
Switch(config-if)#end
```

- c. Melihat konfigurasi VLAN yang sudah dibuat pada mode user

```
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

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#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#show vlan id 30

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

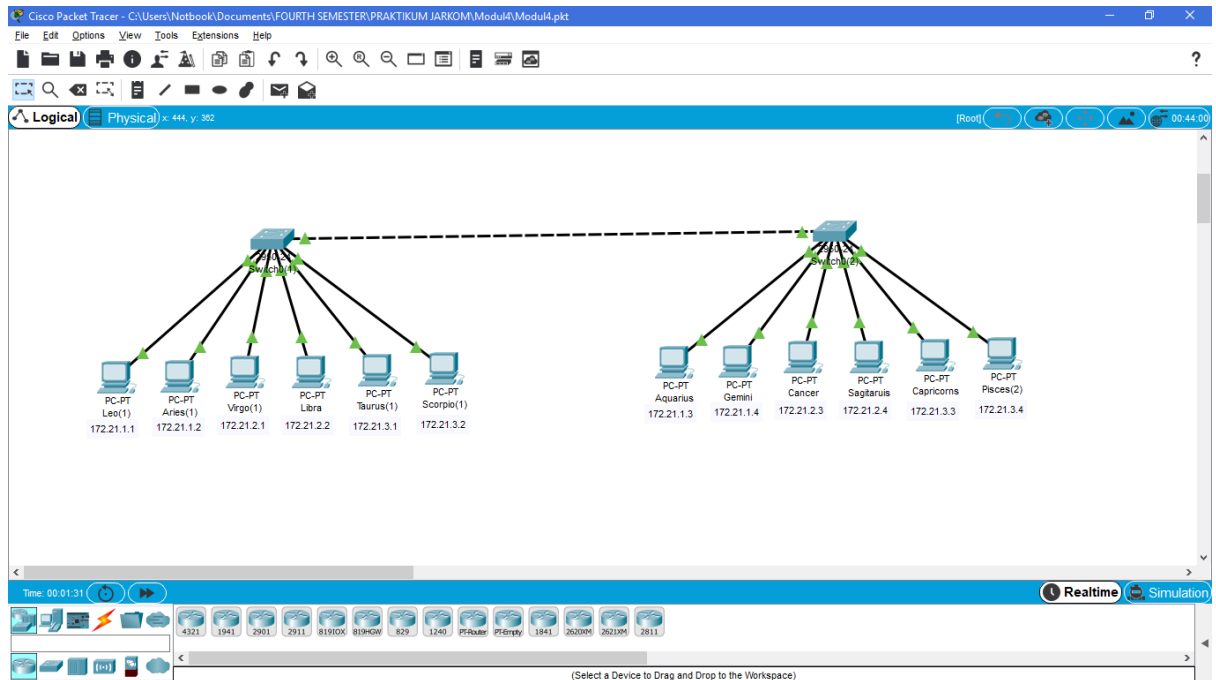
VLAN Type  SAID      MTU   Parent RingNo BridgeNo Stp  BrdgMode Trans1 Trans2
-----
30   enet    100030   1500  -      -      -      -      -      0      0

Switch#
```

- d. Tabel informasi VLAN

No.	Nomor VLAN	Nama VLAN	Port	Status
1.	10	Zodiak 1	Fa 0/1 dan Fa 0/4	Active
2.	20	Zodiak 2	Fa 0/2 dan Fa 0/5	Active
3.	30	Zodiak 3	Fa 0/3 dan Fa 0/6	Active

2. Kegiatan 2



- a. Membuat 3 VLAN dan mengkonfigurasi port port switch ke dalam VLAN

```
Switch0(1)
Physical Config CLI Attributes
IOS Command Line Interface
Switch#
Switch#config term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#vlan 10
Switch(config-vlan)#name sodiak1
Switch(config-vlan)#ex
Switch(config)#vlan 20
Switch(config-vlan)#name sodiak2
Switch(config-vlan)#ex
Switch(config)#vlan 30
Switch(config-vlan)#name sodiak3
Switch(config-vlan)#ex
Switch(config)#int fa 0/1
Switch(config-if)#sw mode access
Switch(config-if)#sw access vlan 10
Switch(config-if)#int fa 0/4
Switch(config-if)#sw mode access
Switch(config-if)#sw access vlan 10
Switch(config-if)#int fa 0/2
Switch(config-if)#sw mode access
Switch(config-if)#sw access vlan 20
Switch(config-if)#int fa 0/5
Switch(config-if)#sw mode access
Switch(config-if)#sw access vlan 20
Switch(config-if)#int fa 0/3
Switch(config-if)#sw mode access
Switch(config-if)#sw access vlan 30
Switch(config-if)#int fa 0/6
Switch(config-if)#sw mode access
Switch(config-if)#sw access vlan 30
```

- b. Konfigurasi VLAN trunking pada Switch 1

```
Switch(config-if)#int fa 0/24
Switch(config-if)#sw mode trunk
Switch(config-if)#ex
Switch(config)#end
```

c. Melihat konfigurasi trunking yang telah dibuat

Switch0(1)

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Switch#show int trunk
Port      Mode      Encapsulation  Status      Native vlan
Fa0/24    on         802.1q         trunking    1

Port      Vlans allowed on trunk
Fa0/24    1-1005

Port      Vlans allowed and active in management domain
Fa0/24    1,10,20,30

Port      Vlans in spanning tree forwarding state and not pruned
Fa0/24    1,10,20,30
```

```
Switch#show vlan

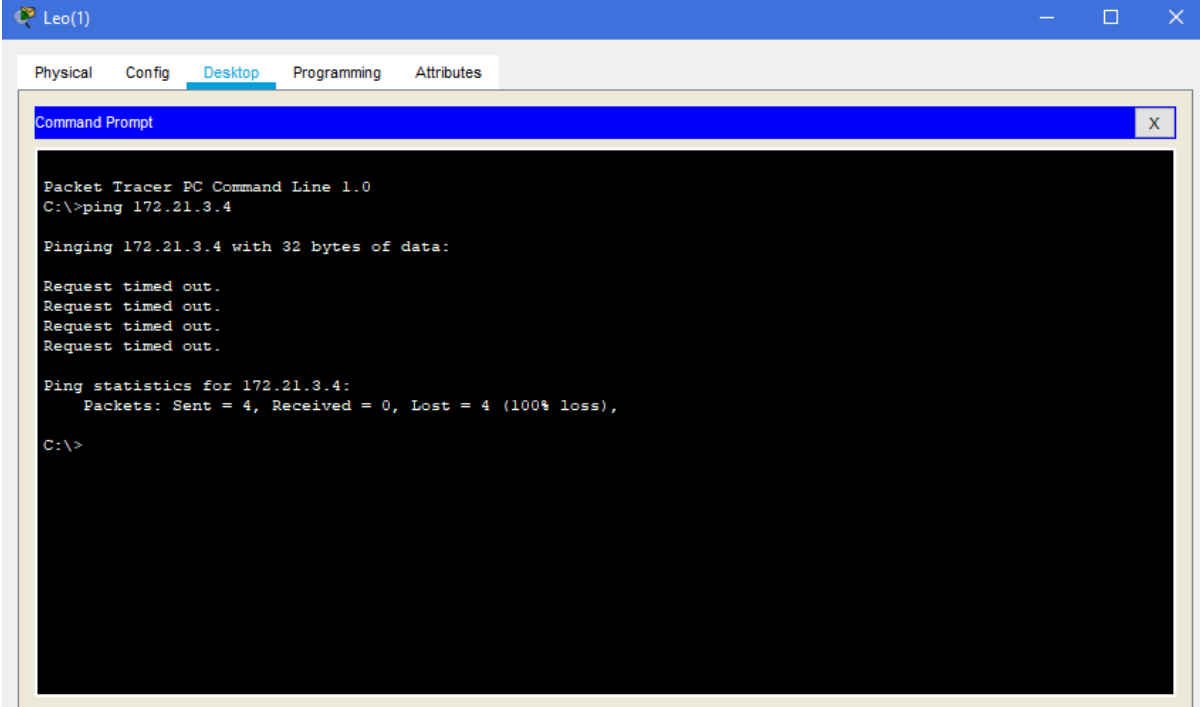
VLAN Name                Status    Ports
-----
1    default                active    Fa0/7, Fa0/8, Fa0/9, Fa0/10
                                           Fa0/11, Fa0/12, Fa0/13, Fa0/14
                                           Fa0/15, Fa0/16, Fa0/17, Fa0/18
                                           Fa0/19, Fa0/20, Fa0/21, Fa0/22
                                           Fa0/23
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

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

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

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

d. Melakukan ping dari PC Leo ke Pisces



The screenshot shows the Packet Tracer interface for PC Leo(1). The 'Desktop' tab is selected, displaying a 'Command Prompt' window. The command prompt shows the execution of the command 'C:\>ping 172.21.3.4'. The output indicates that the ping failed with 'Request timed out.' for all four attempts. The ping statistics show 'Packets: Sent = 4, Received = 0, Lost = 4 (100% loss)'.

```
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:\>
```

e. Konfigurasi VLAN trunking pada switch 2



The screenshot shows the Packet Tracer interface for Switch0(2). The 'CLI' tab is selected, displaying the 'IOS Command Line Interface'. The configuration commands entered are: 'Switch>en', 'Switch#config term', 'Switch(config)#int fa 0/24', 'Switch(config-if)#sw mode trunk', 'Switch(config-if)#ex', and 'Switch(config)#end'.

```
Switch0(2)
Physical Config CLI Attributes

IOS Command Line Interface

Switch>en
Switch#config term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#int fa 0/24
Switch(config-if)#sw mode trunk
Switch(config-if)#ex
Switch(config)#end
```

f. Melihat konfigurasi VLAN pada switch 2

```

Physical    Config    CLI    Attributes
                                                    IOS Conf

%LINK-5-CHANGED: Interface FastEthernet0/6, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/6, changed state to up

Switch>en
Switch#show vlan

VLAN Name                Status    Ports
-----
1    default                active    Fa0/1, 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 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

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

Remote SPAN VLANs
-----

Primary Secondary Type                Ports
-----

```

g. Konfigurasi port port switch 2 ke dalam VLAN

```
Switch(config)#vlan 10
Switch(config-vlan)#name zodiak1
Switch(config-vlan)#ex
Switch(config)#vlan 20
Switch(config-vlan)#name zodiak2
Switch(config-vlan)#ex
Switch(config)#vlan 30
Switch(config-vlan)#name zodiak3
Switch(config-vlan)#ex
Switch(config)#int fa 0/1
Switch(config-if)#sw mode access
Switch(config-if)#sw access vlan 10
Switch(config-if)#int fa 0/2
Switch(config-if)#sw mode access
Switch(config-if)#sw access vlan 10
Switch(config-if)#int fa 0/3
Switch(config-if)#sw mode access
Switch(config-if)#sw access vlan 20
Switch(config-if)#int fa 0/4
Switch(config-if)#sw mode access
Switch(config-if)#sw access vlan 20
Switch(config-if)#int fa 0/5
Switch(config-if)#sw mode access
Switch(config-if)#sw access vlan 30
Switch(config-if)#int fa 0/6
Switch(config-if)#sw mode access
Switch(config-if)#sw access vlan 30
```

h. Melakukan ping dari PC Leo ke Aries

```
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.

Ping statistics for 172.21.1.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>
```

i. Melakukan ping dari PC Leo ke Aquarius

```
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=75ms 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 = 75ms, Average = 19ms
```

j. Melakukan ping dari PC Leo ke Pisces

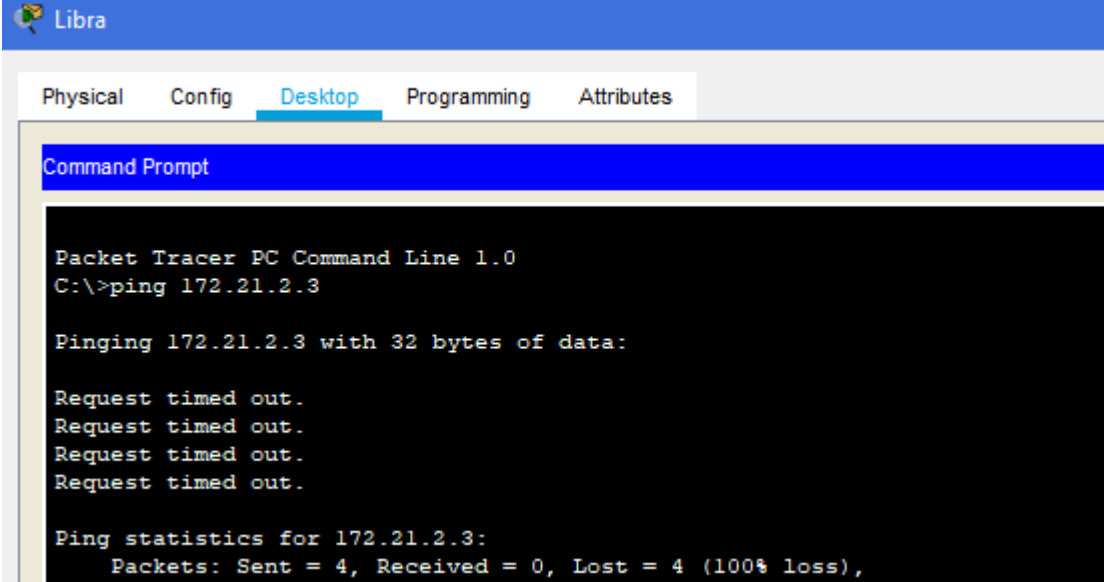
```
C:\>ping 172.21.3.4

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),
```

k. Melakukan ping dari PC Libra ke Cancer



The screenshot shows the Packet Tracer interface with the 'Libra' PC selected. The 'Desktop' tab is active, displaying a 'Command Prompt' window. The command prompt shows the execution of a ping command to 172.21.2.3, resulting in four 'Request timed out' messages and a 100% loss of packets.

```
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),
```

l. Melakukan ping dari PC Libra ke 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),
```