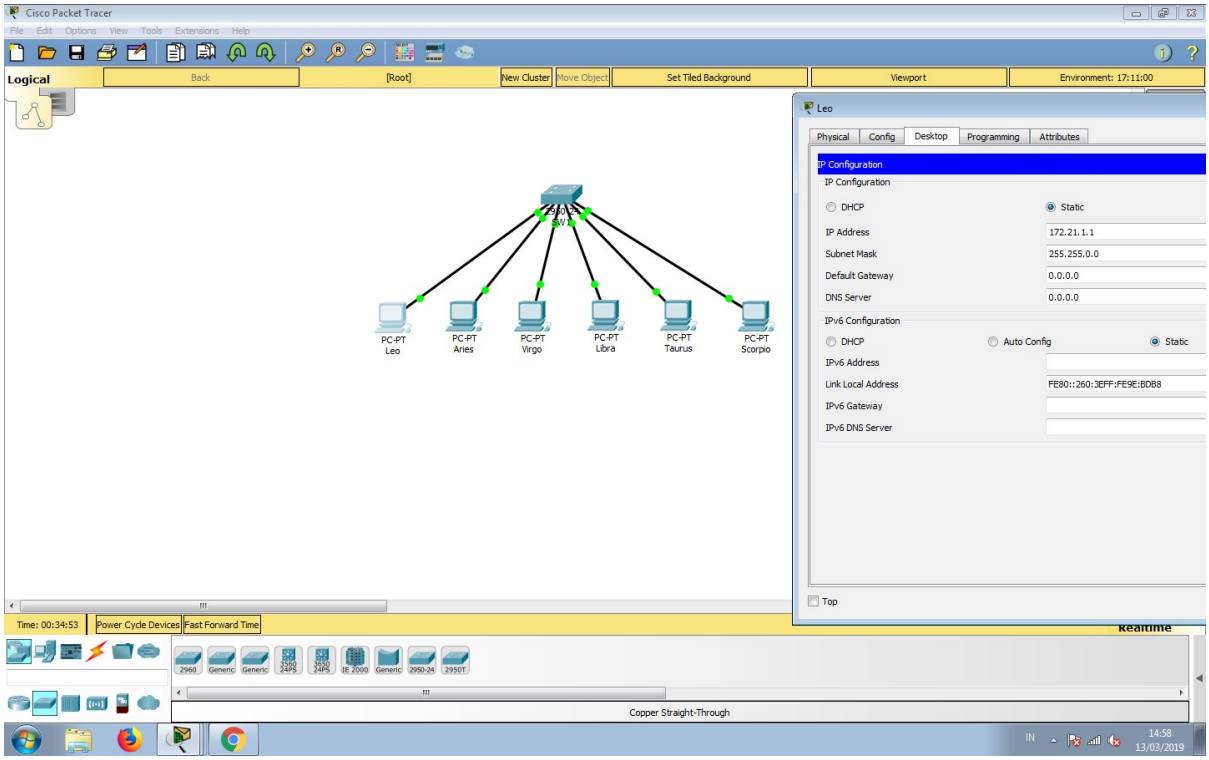
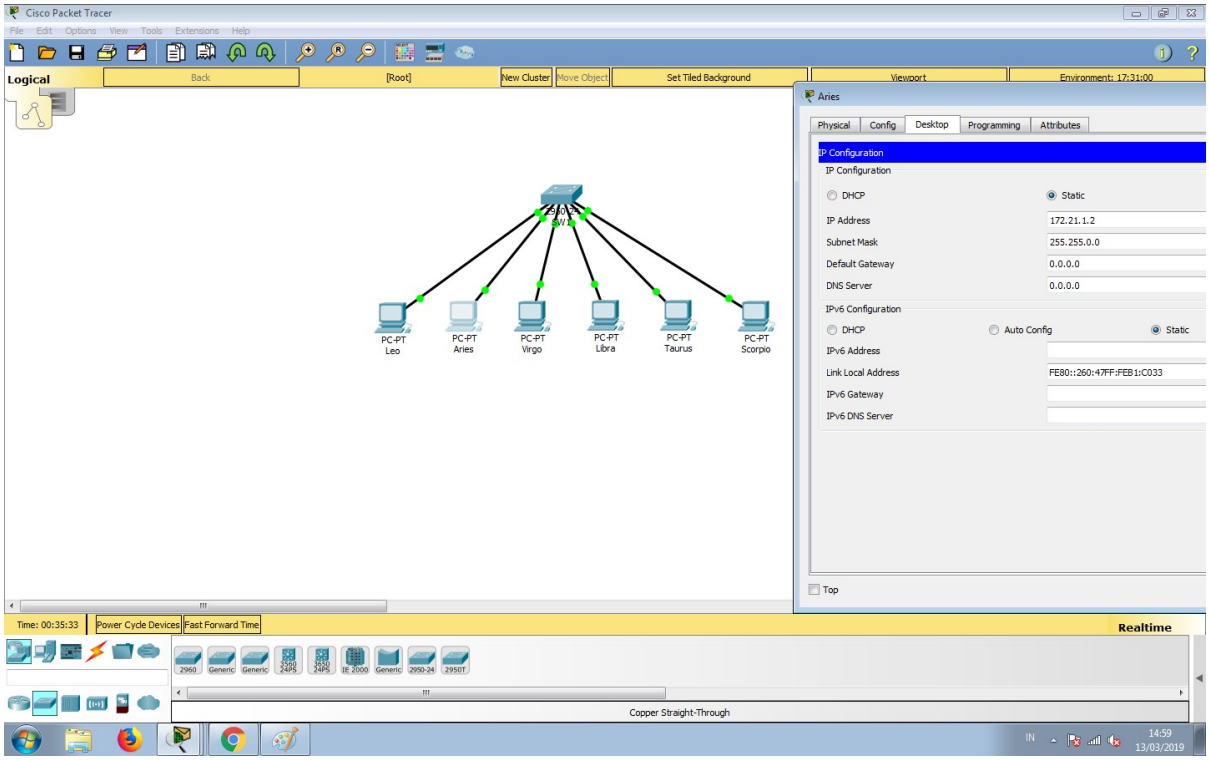
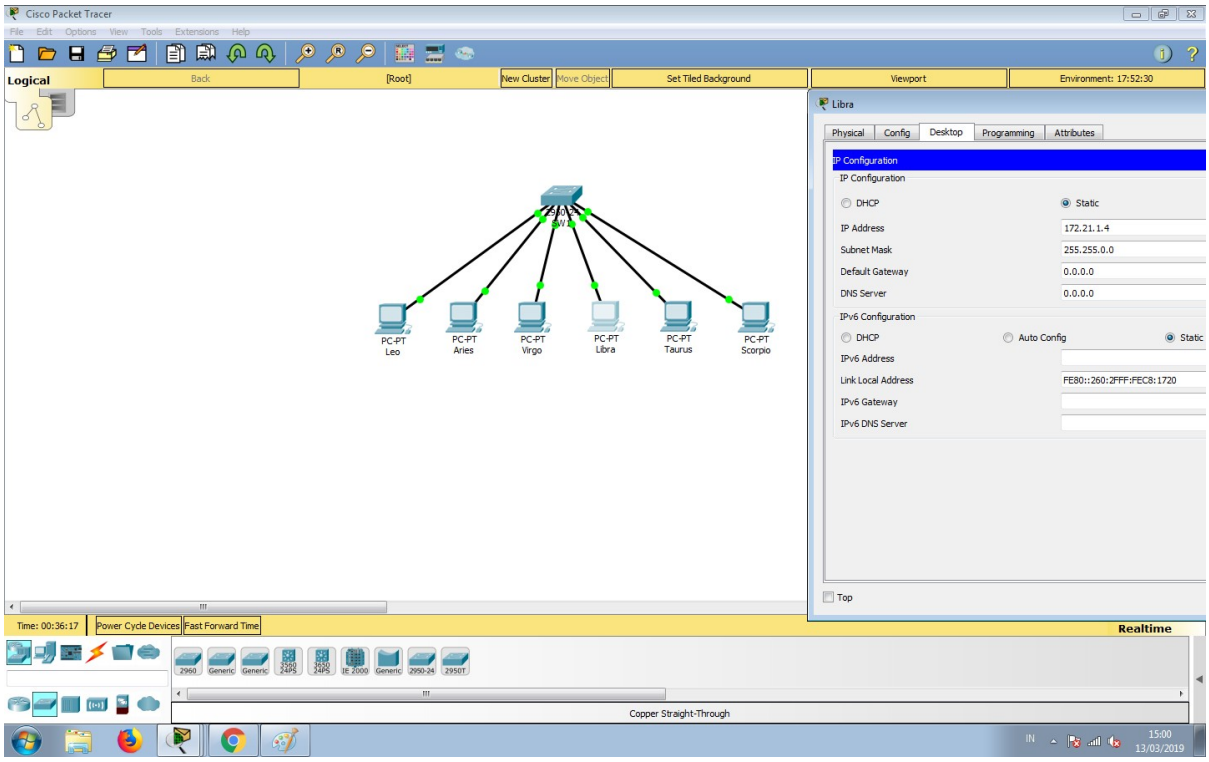
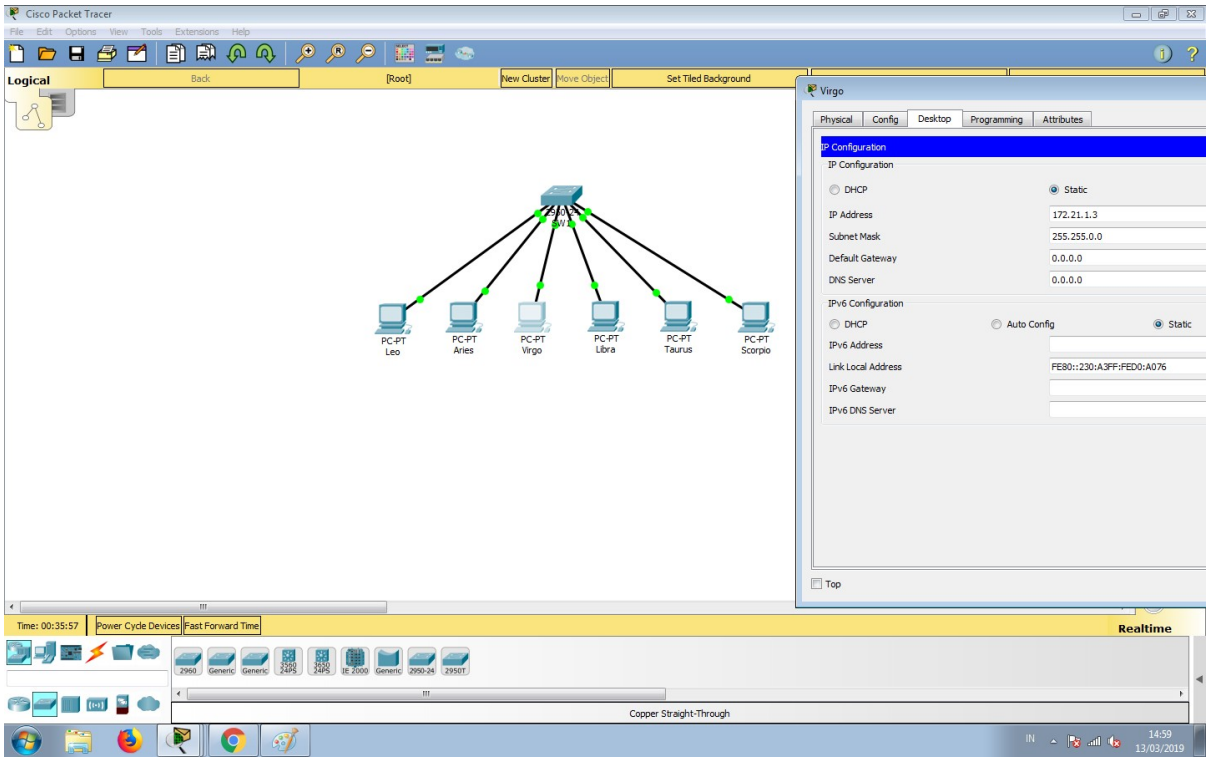
Nama : Ardita Mahendra
NIM : L200170068
Kelas : B

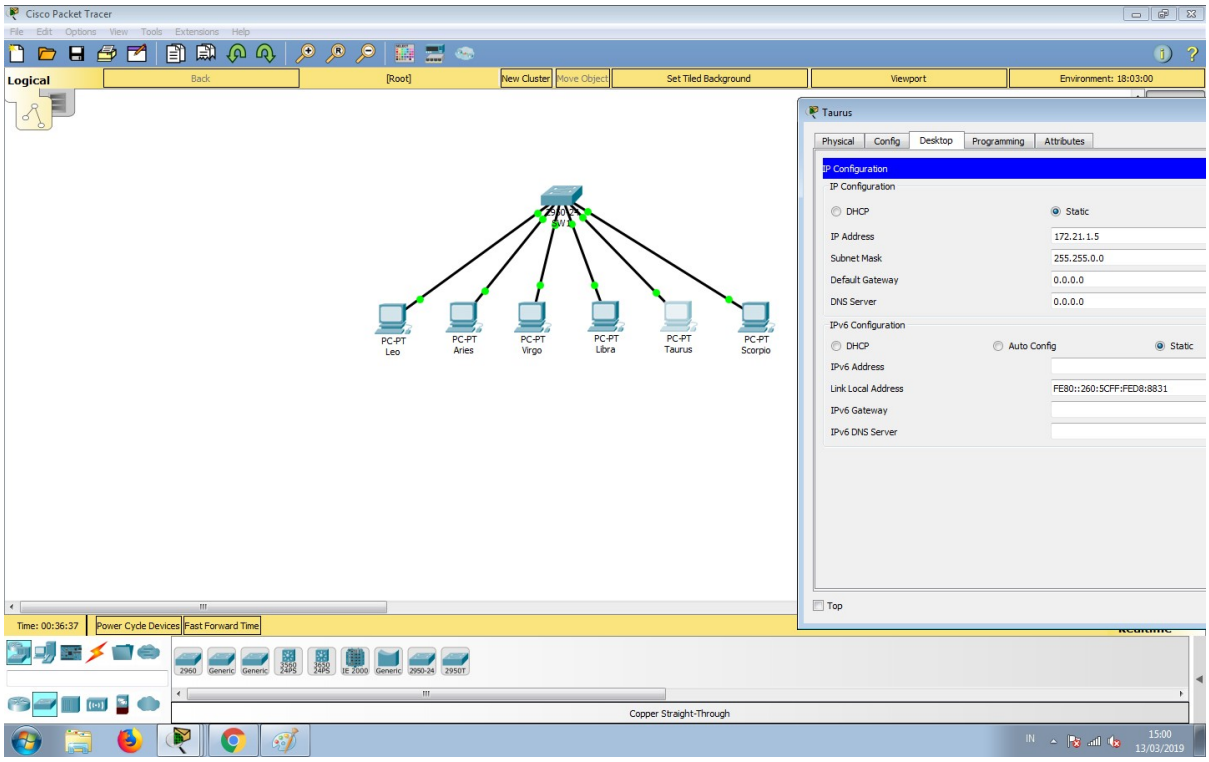
Modul 4
Kegiatan 1. Topologi 1
1, 2 & 3

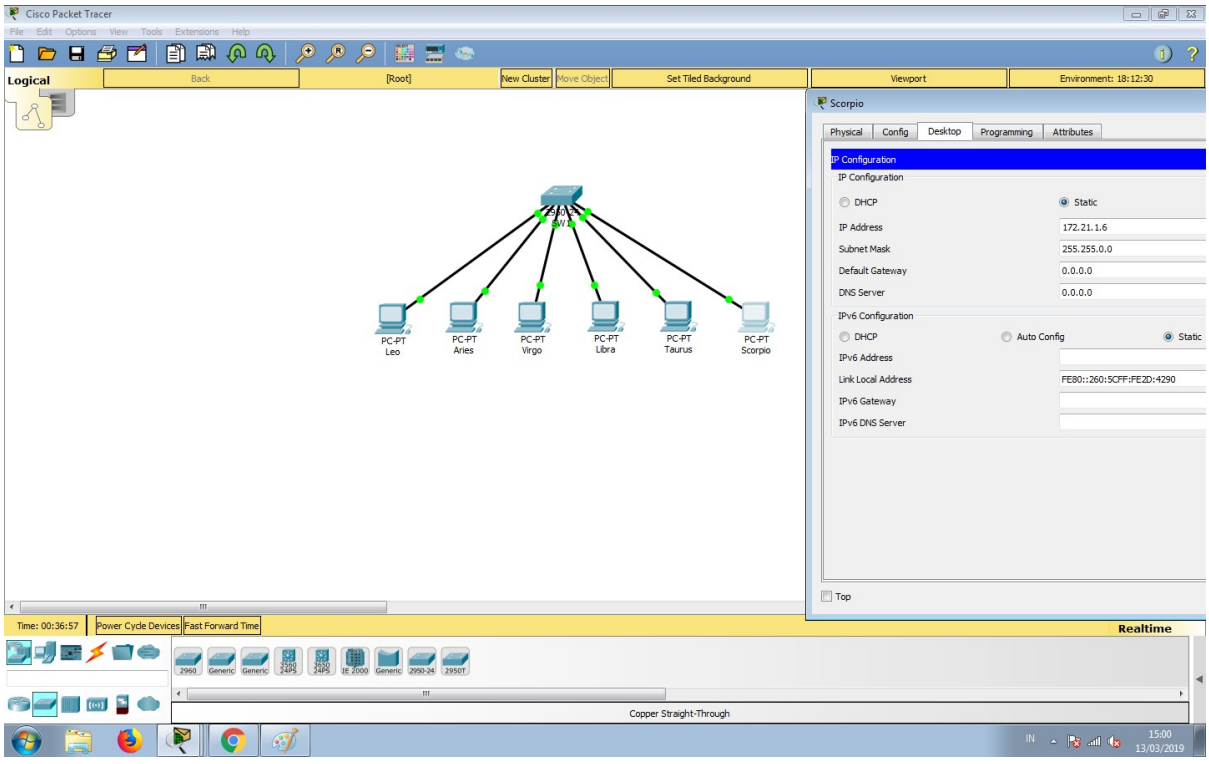




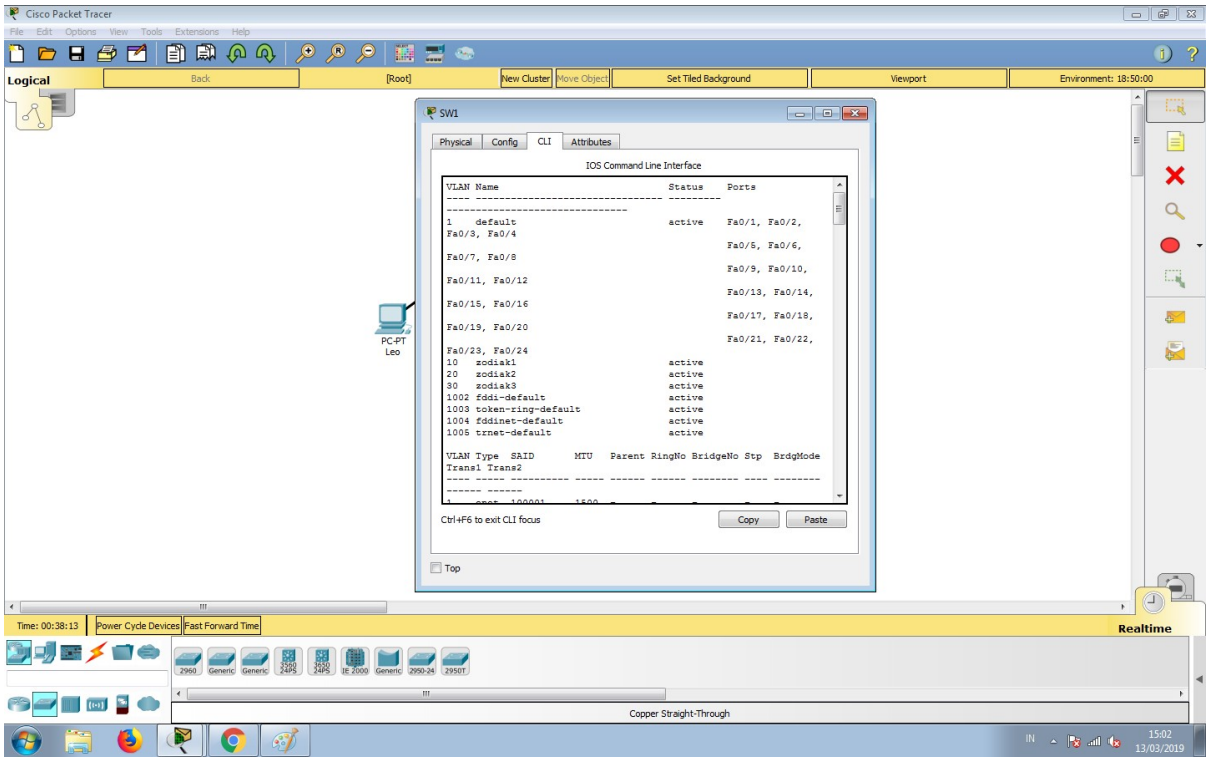

Cisco Packet Tracer
Logical
Libra
Physical
Config
Desktop
Programming
Attributes
IP Configuration
DHCP
Static
IP Address
172.21.1.4
Subnet Mask
255.255.0.0
Default Gateway
0.0.0.0
DNS Server
0.0.0.0
IPv6 Configuration
Auto Config
IPv6 Address
Link Local Address
FE80::260:2FFF:FEC8:1720
IPv6 Gateway
IPv6 DNS Server
Top
PC-PT Leo
PC-PT Aries
PC-PT Virgo
PC-PT Libra
PC-PT Taurus
PC-PT Scorpio
Time: 00:36:17
Power Cycle Devices
Fast Forward Time
Realtime
Copper Straight-Through
15:00
13/03/2019

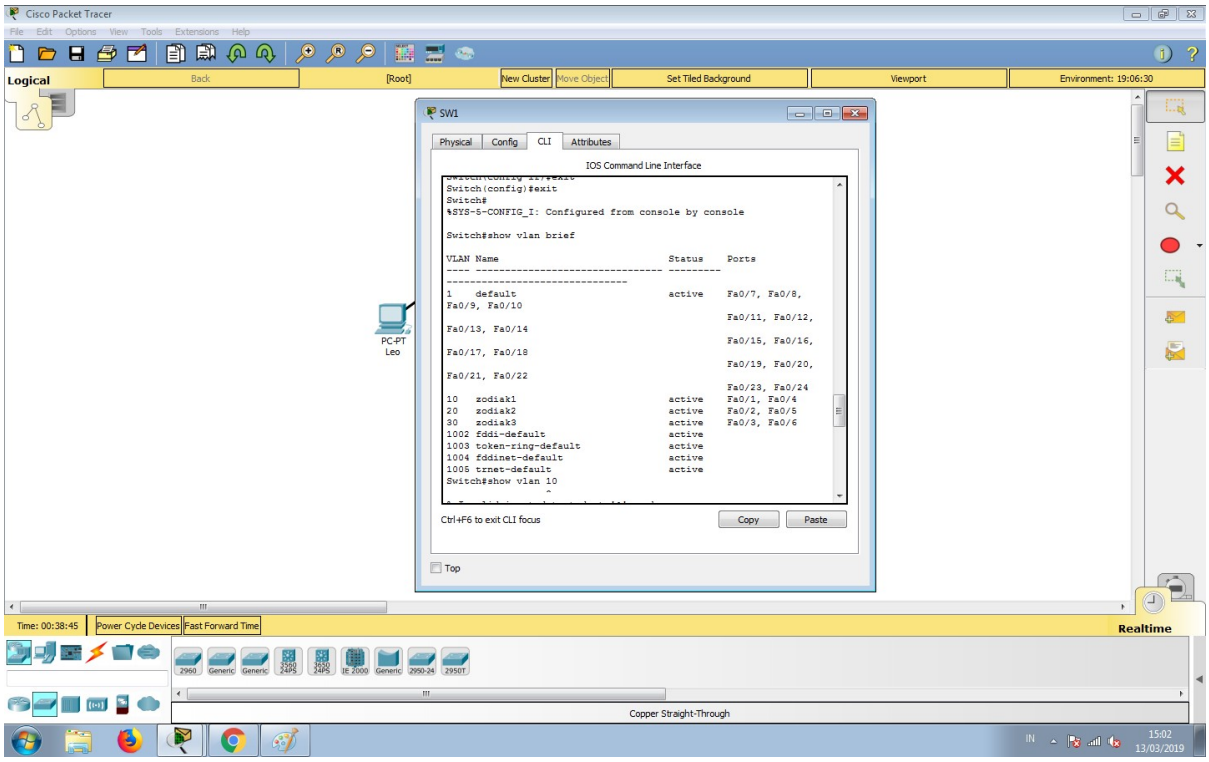

Cisco Packet Tracer
Logical
Virgo
Physical
Config
Desktop
Programming
Attributes
IP Configuration
DHCP
Static
IP Address
172.21.1.3
Subnet Mask
255.255.0.0
Default Gateway
0.0.0.0
DNS Server
0.0.0.0
IPv6 Configuration
Auto Config
IPv6 Address
Link Local Address
FE80::230:A3FF:FED0:A076
IPv6 Gateway
IPv6 DNS Server
Top
PC-PT Leo
PC-PT Aries
PC-PT Virgo
PC-PT Libra
PC-PT Taurus
PC-PT Scorpio
Time: 00:35:57
Power Cycle Devices
Fast Forward Time
Realtime
Copper Straight-Through
14:59
13/03/2019


Cisco Packet Tracer
Logical
Taurus
Physical
Config
Desktop
Programming
Attributes
IP Configuration
DHCP
Static
IP Address
172.21.1.5
Subnet Mask
255.255.0.0
Default Gateway
0.0.0.0
DNS Server
0.0.0.0
IPv6 Configuration
Auto Config
IPv6 Address
Link Local Address
FE80::260:5CFF:FED8:8831
IPv6 Gateway
IPv6 DNS Server
Top
PC-PT Leo
PC-PT Aries
PC-PT Virgo
PC-PT Libra
PC-PT Taurus
PC-PT Scorpio
Time: 00:36:37
Power Cycle Devices
Fast Forward Time
Copper Straight-Through
15:00
13/03/2019

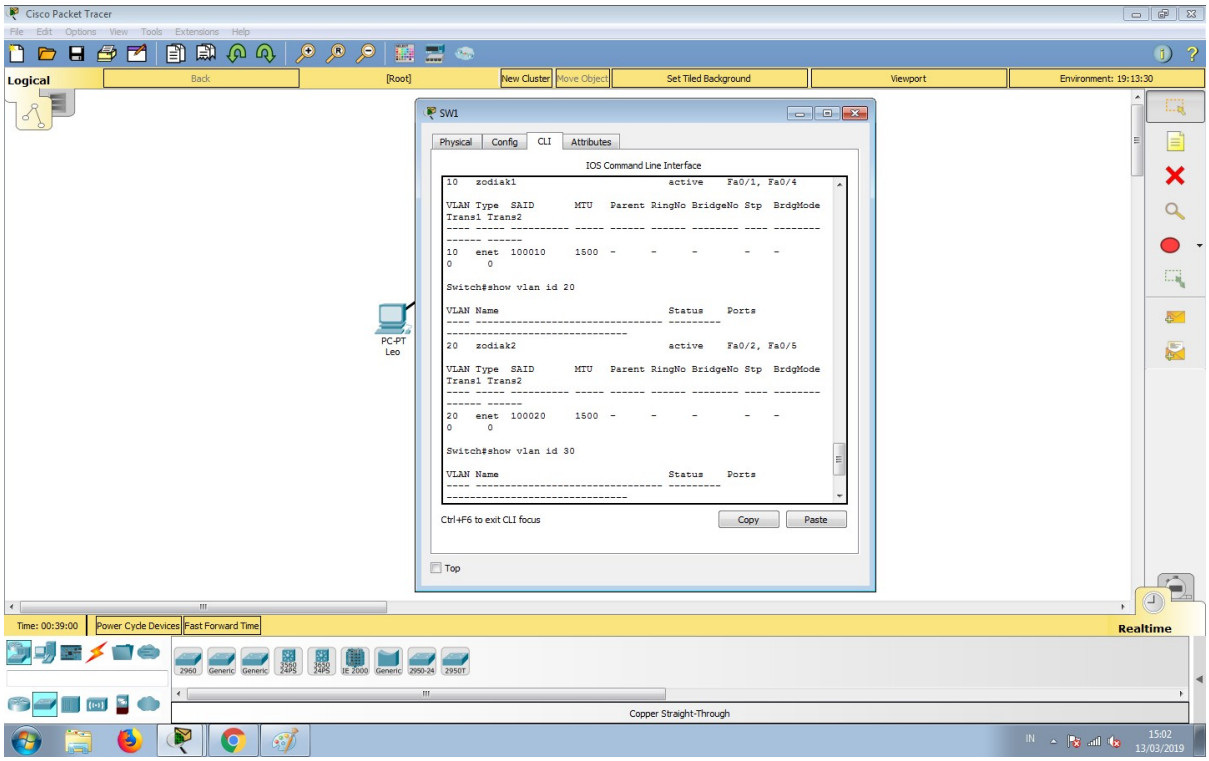

Cisco Packet Tracer
Logical
Scorpio
Physical
Config
Desktop
Programming
Attributes
IP Configuration
DHCP
Static
IP Address
172.21.1.6
Subnet Mask
255.255.0.0
Default Gateway
0.0.0.0
DNS Server
0.0.0.0
IPv6 Configuration
Auto Config
IPv6 Address
Link Local Address
FE80::260:5CFF:FE2D:4290
IPv6 Gateway
IPv6 DNS Server
Top
PC-PT Leo
PC-PT Aries
PC-PT Virgo
PC-PT Libra
PC-PT Taurus
PC-PT Scorpio
Time: 00:36:57
Power Cycle Devices
Fast Forward Time
Realtime
Copper Straight-Through
15:00
13/03/2019

4 & 5


Cisco Packet Tracer
Logical
SW1
Physical
Config
CLI
Attributes
IOS Command Line Interface
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
10 zodiak1 active
20 zodiak2 active
30 zodiak3 active
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
Ctrl+F6 to exit CLI focus
Copy
Paste
Top
PC-PT Leo
Time: 00:38:13
Power Cycle Devices
Fast Forward Time
Realtime
Copper Straight-Through
15:02
13/03/2019

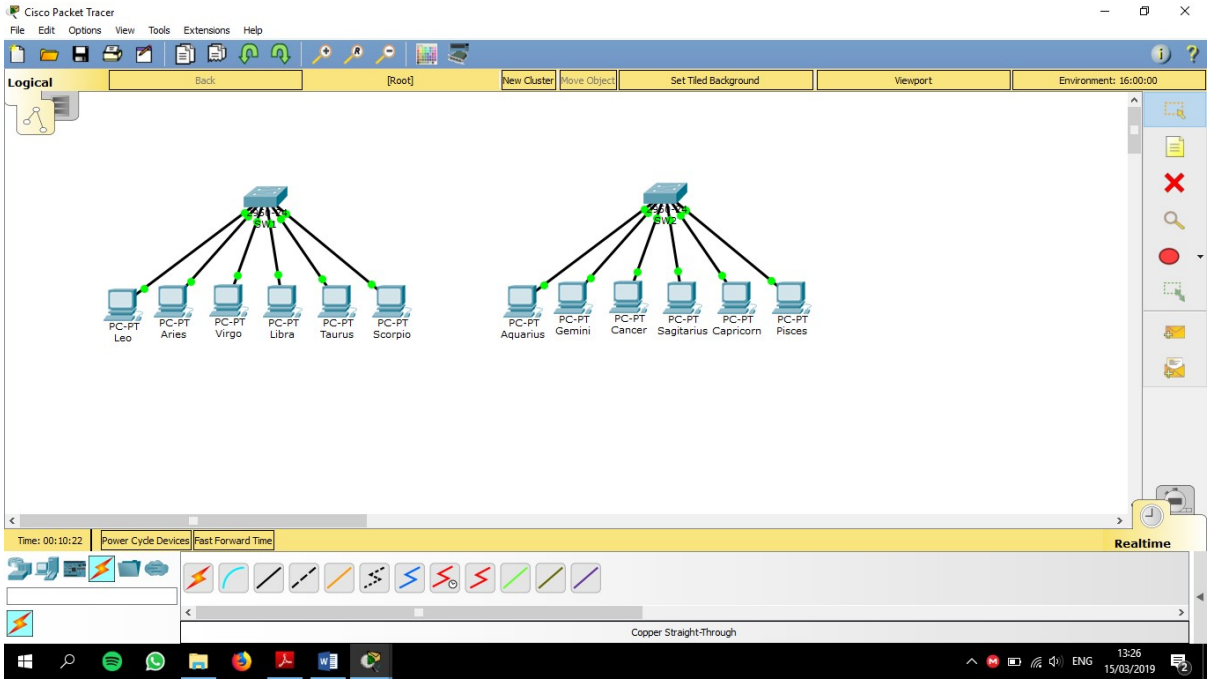

Cisco Packet Tracer
Logical
SW1
Physical
Config
CLI
Attributes
IOS Command Line Interface
Switch(config)#exit
Switch#
%SYS-5-CONFIG_I: Configured from console by console
Switch#show vlan brief
VLAN Name Status Ports
1 default active Fa0/7, Fa0/8, Fa0/9, Fa0/10
Fa0/11, Fa0/12, Fa0/13, Fa0/14
Fa0/15, Fa0/16, Fa0/17, Fa0/18
Fa0/19, Fa0/20, Fa0/21, Fa0/22
Fa0/23, Fa0/24
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 10
Ctrl+F6 to exit CLI focus
Copy
Paste
Top
PC-PT Leo
Time: 00:38:45
Power Cycle Devices
Fast Forward Time
Realtime
Copper Straight-Through
15:02
13/03/2019

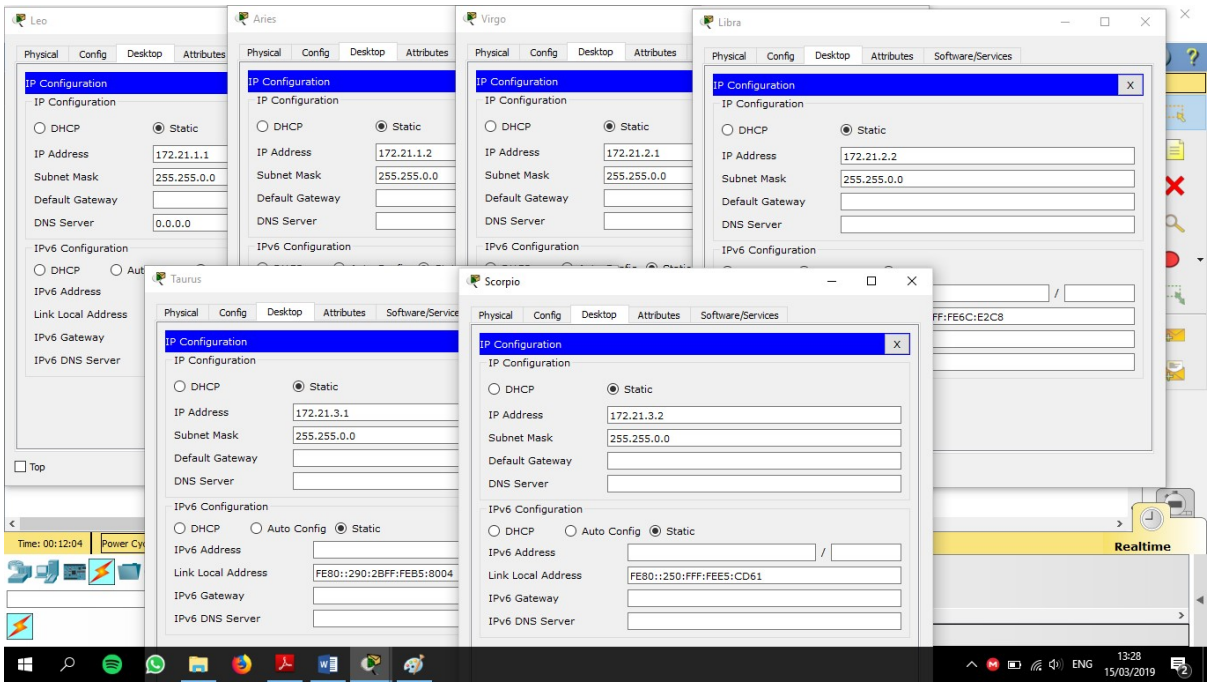
6.

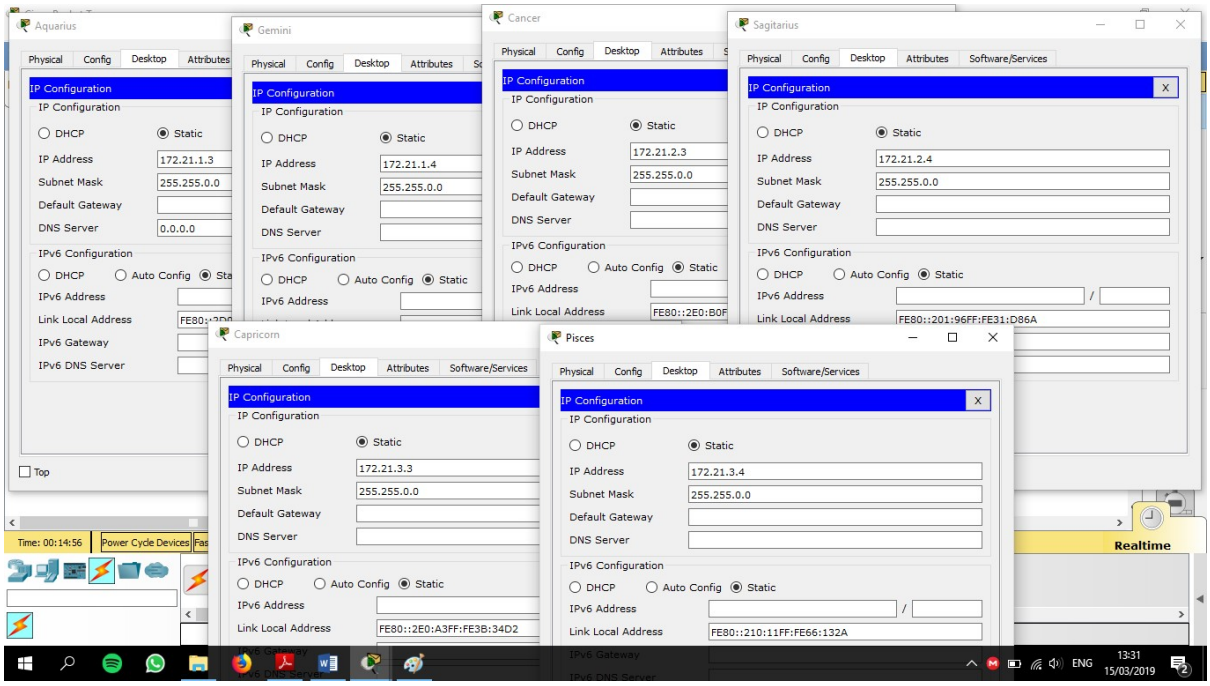


No	Variable	Nilai 1	Nilai 2	Nilai 3
1	Nomor VLAN	10	20	30
2	Nama VLAN	Zodiak 1	Zodiak 2	Zodiak 3
3	Port	Fa 0/1, Fa 0/4	Fa 0/2, Fa 0/5	Fa 0/3, Fa 0/6
4	Status	Active	Active	Active

Kegiatan 1 Topologi 2
1, 2, 3 & 4







5, 6, 7 dan 8

Lakukan konfigurasi VLAN dan Trunk

a. Pada segmen switch 1

• zodiak1 = leo dan libra

• zodiak2 = aries dan taurus

• zodiak3 = virgo dan scorpio

langkah pengoperasian dan berserta hasilnya sebagai berikut ini:

```
Switch#show int fa 0/1 switchport
Name: Fa0/1
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
 --More--
```

```
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#show vlan brief

VLAN Name                                Status    Ports
---- ----------------------------------- --------- -------------------------------
1    default                             active    Fa0/1, 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    Fa0/2, Fa0/5
20   zodiak2                             active    Fa0/3, Fa0/6
30   zodiak3                             active    Fa0/4, Fa0/7
1002 fddi-default                        active
1003 token-ring-default                  active
1004 fddinet-default                     active
1005 trnet-default                       active
Switch#
```

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

Port        Vlans allowed on trunk
Fa0/1       1-1005

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

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

Switch#
```

9, 10, dan 11
b. Pada segmen switch 1
• zodiak1 = leo dan libra
• zodiak2`= aries dan taurus
• zodiak3 = virgo dan scorpio
langkah pengoperasian dan berserta hasilnya berada dibawah:

```
Switch#show int fa 0/1 switchport
Name: Fa0/1
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
```

```
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    Fa0/2, Fa0/3
20   zodiak2                          active    Fa0/4, Fa0/5
30   zodiak3                          active    Fa0/6, Fa0/7
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
------- --------- ----------------- ------------------------------------------
Switch#
```

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

Port        Vlans allowed on trunk
Fa0/1       1-1005

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

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

12.
Test koneksi 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),
```

Test koneksi 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=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
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 = 1ms, Average = 0ms
```

Test koneksi leo ke pisces

```
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),
```

Test koneksi libra ke cancer

```
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:\>
```

Test koneksi 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),
```