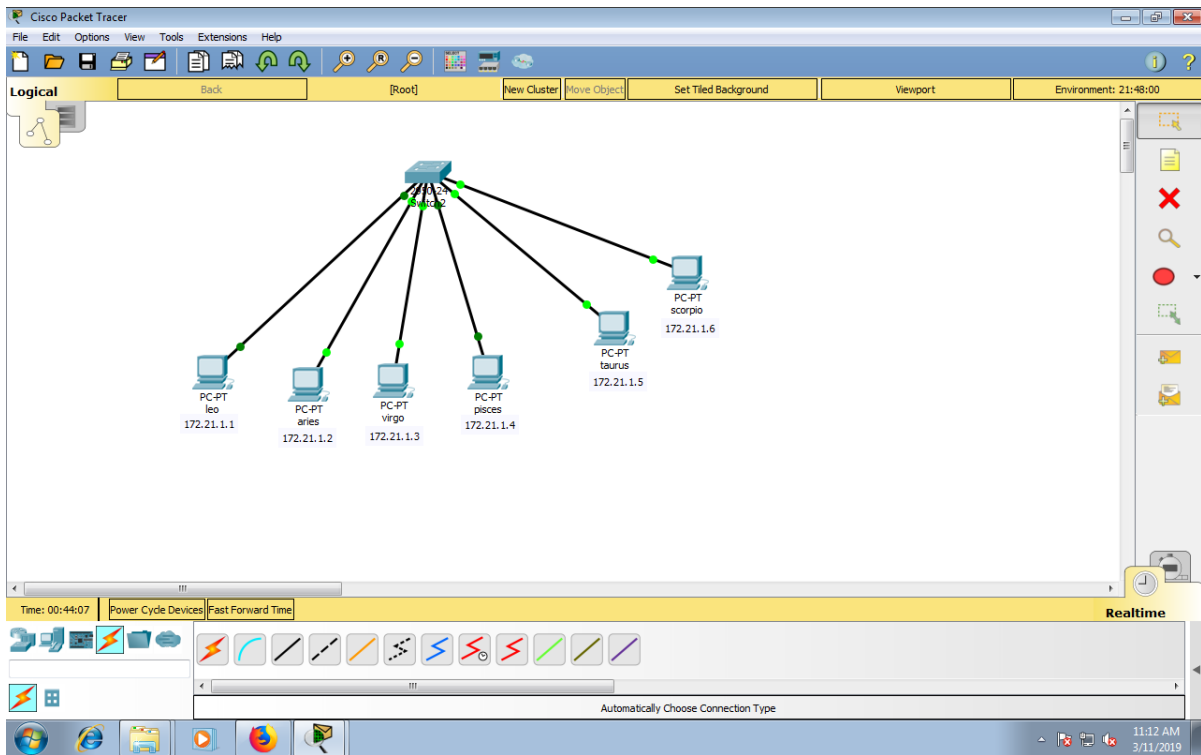


Nama : Mochammad Itmamul Wafa
Nim : L200170184
Kelas : D

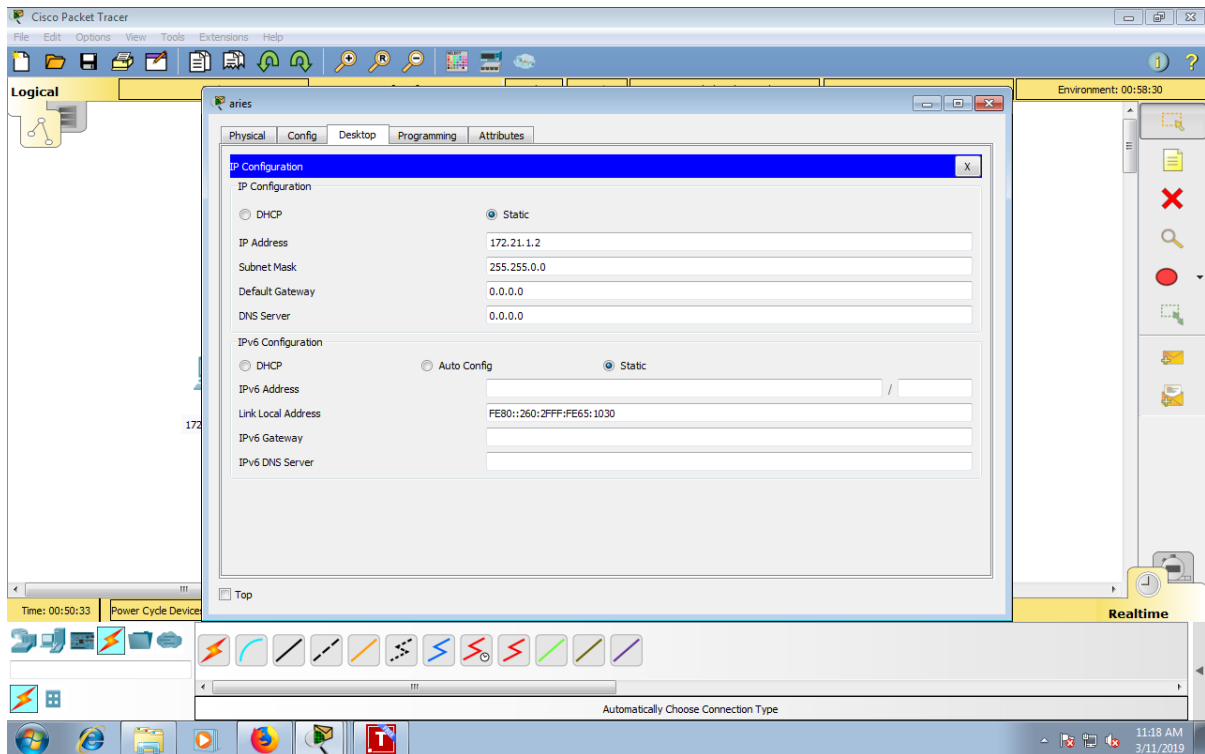
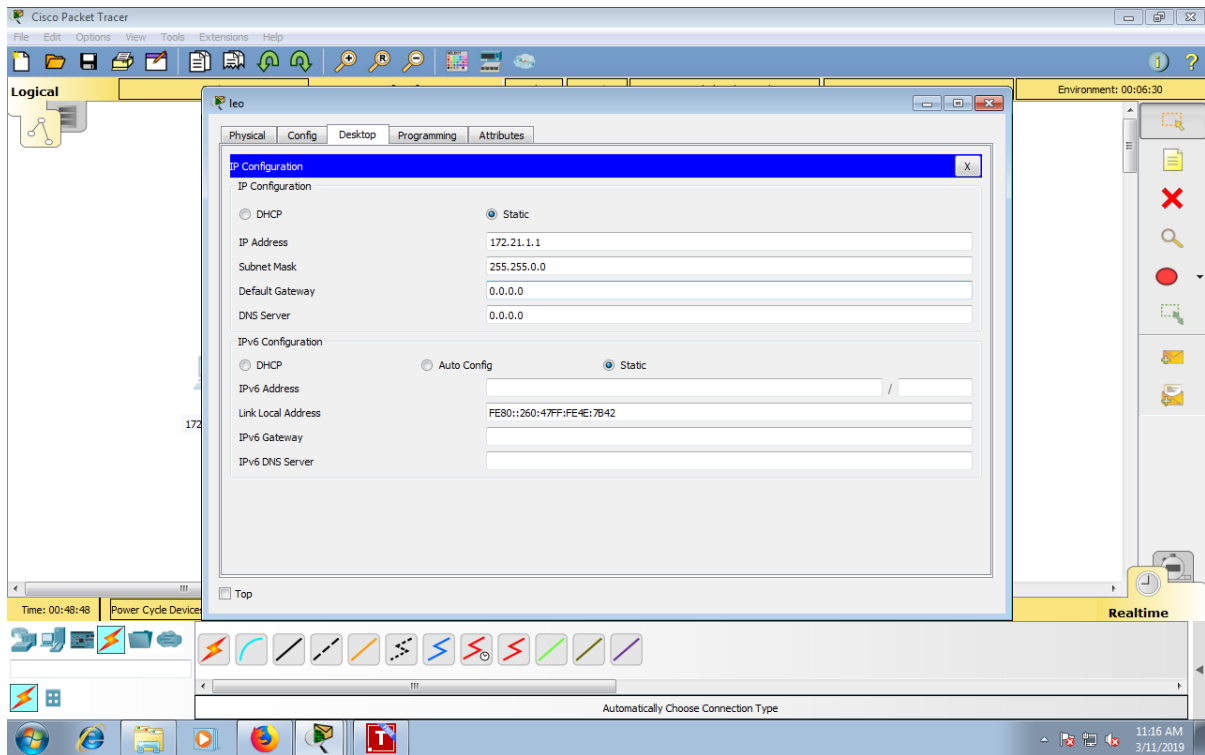
Kegiatan Pratikum Jaringan Komputer Modul4

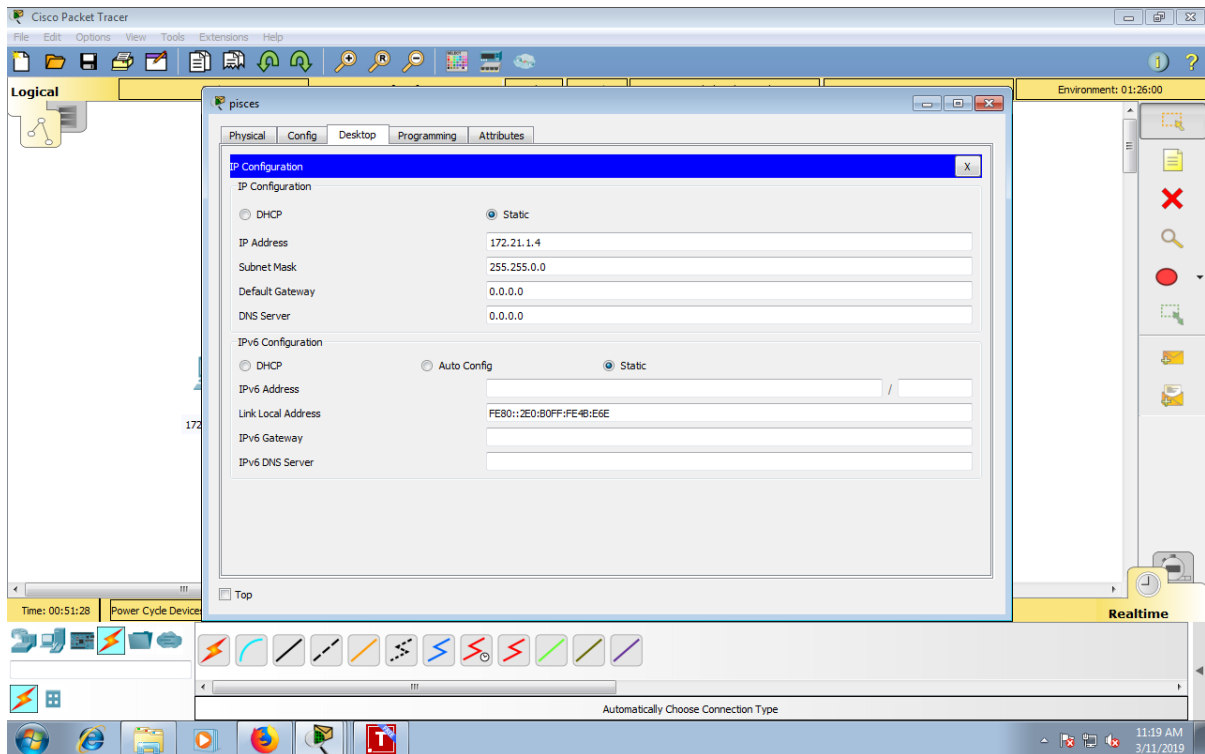
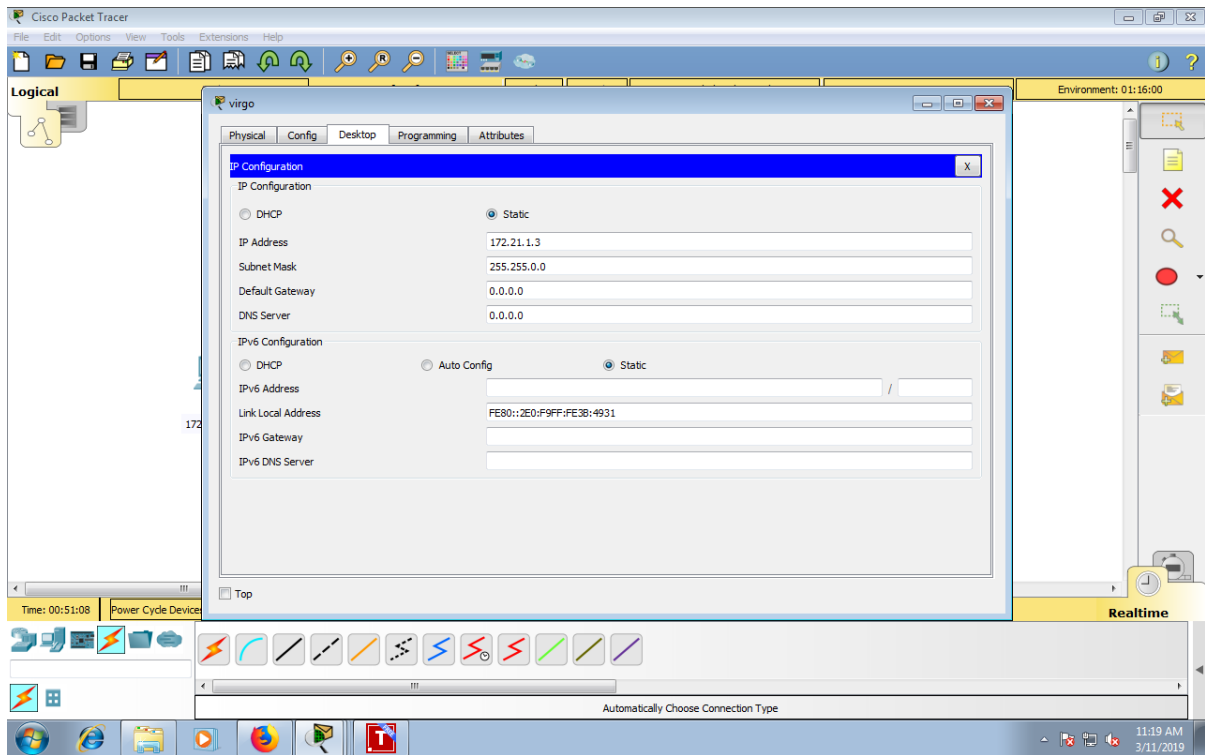
kegiatan 1. Topologi 1

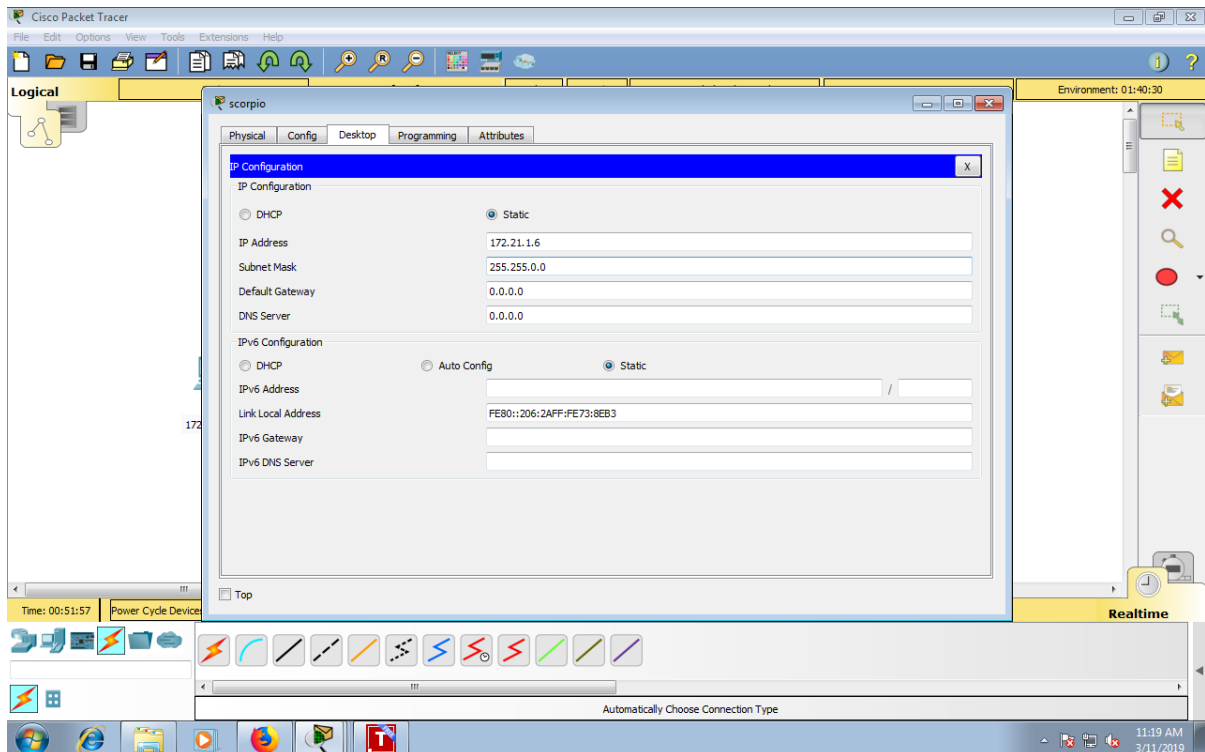
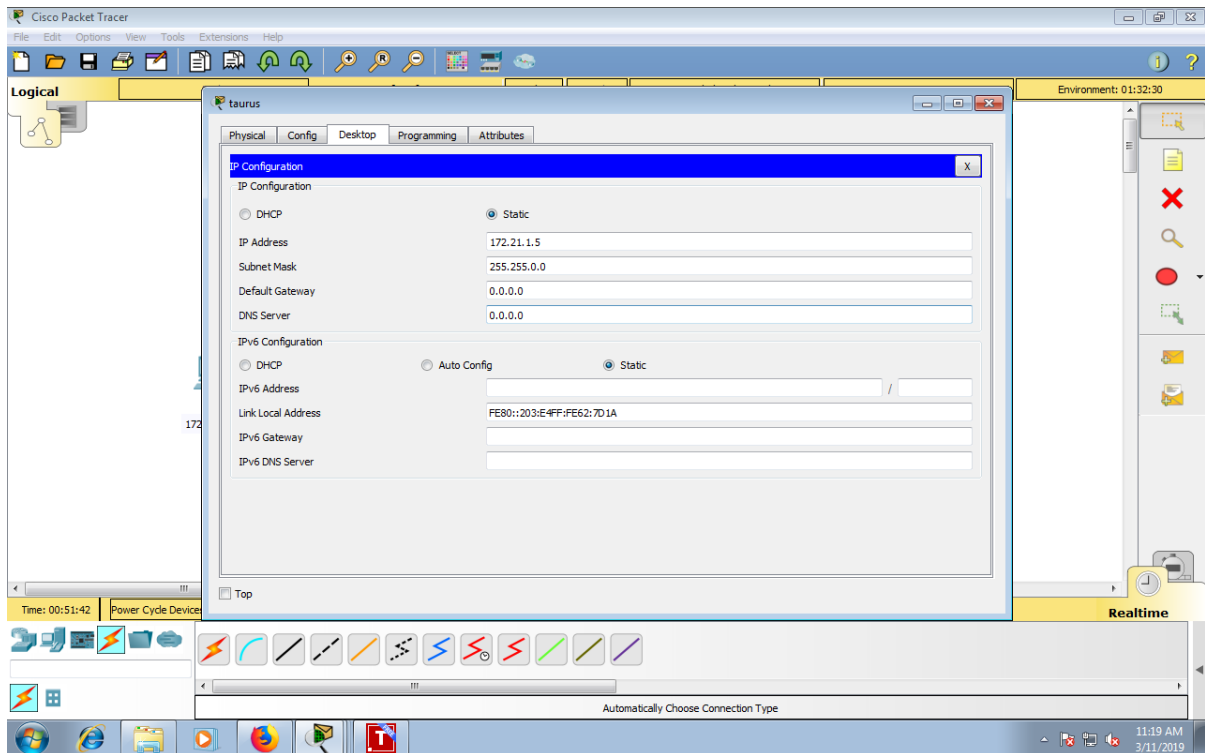
1. Desain topologi 1 switch 6 pc



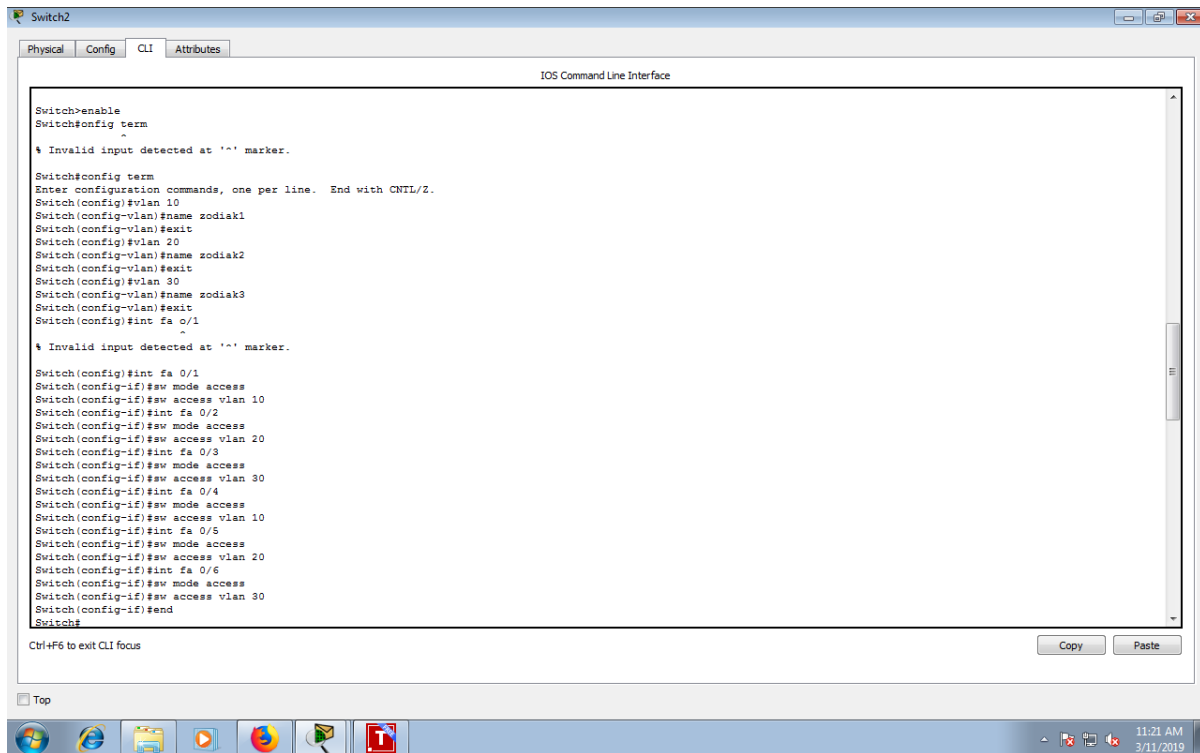
2. menentukan Address IP







3. langkah pengoperasian



4. Langkah Pengoperasian untuk melihat konfigurasi

```

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	

Switch2

PhysicalConfigCLIAttributes

IOS Command Line Interface

Switch#show vlan id 20

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

Switch#show vlan id 10

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

Switch#show vlan id 30

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

Switch#

Switch con0 is now available

Ctrl+F6 to exit CLI focus

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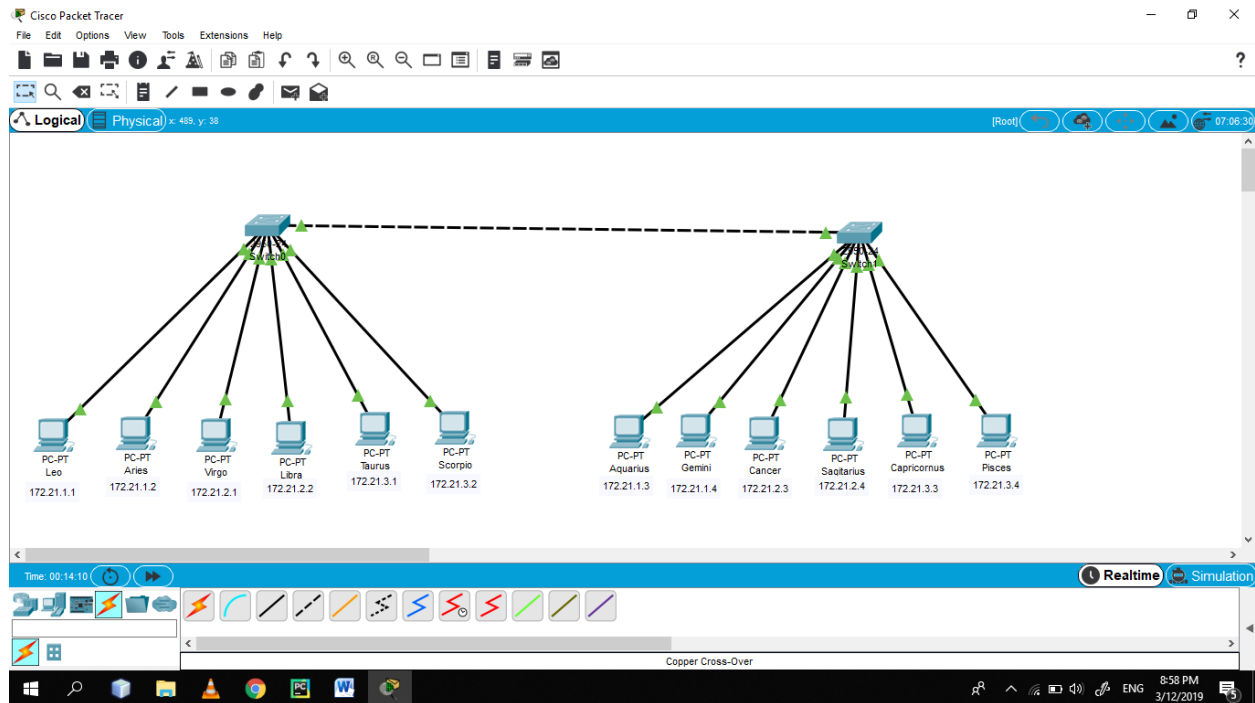
Top

11:24 AM

3/11/2019

Kegiatan 2. Topologi 2

1. Desain Topologi 2 switch dan 10 pc



2. Konfigurasi alamat IP Address

No	Nama PC	IP Address
1	Leo	172.21.1.1/24
2	Aries	172.21.1.2/24
3	Virgo	172.21.2.1/24
4	Libra	172.21.2.2/24
5	Taurus	172.21.3.1/24
6	Scorpio	172.21.3.2/24
7	Aquarius	172.21.1.3/24
8	Gemini	172.21.1.4/24
9	Cancer	172.21.2.3/24
10	Sagittarius	172.21.2.4/24
11	Capricornus	172.21.3.3/24
12	Pisces	172.21.3.4/24

3. Konfigurasi pada segmen switch 1 dengan mode *user* atau mode *privileged*

```
Switch>enable
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 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)#switch mode access
Switch(config-if)#switch access vlan 10
Switch(config-if)#int Fa 0/4
Switch(config-if)#switch mode access
Switch(config-if)#switch access vlan 10
Switch(config-if)#int Fa 0/2
Switch(config-if)#switch access vlan 20
Switch(config-if)#switch mode access
Switch(config-if)#switch access vlan 20
Switch(config-if)#int Fa 0/5
Switch(config-if)#switch mode access
Switch(config-if)#switch access vlan 20
Switch(config-if)#int Fa 0/3
Switch(config-if)#switch mode access
Switch(config-if)#switch access vlan 30
Switch(config-if)#int Fa 0/6
Switch(config-if)#switch mode access
Switch(config-if)#switch access vlan 30
Switch(config-if)#end
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#show vlan brief

VLAN Name                Status    Ports
-----
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#
Switch#config
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#config term
Switch(config)#
% Invalid input detected at '^' marker.

Switch(config)#enable
% Incomplete command.
Switch(config)#ex
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#
```

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	

No	VLAN ID / Nama	Host
1	10 / Zodiak1	Leo dan Libra
2	20 / Zodiak2	Aries dan Taurus
3	30 / Zodiak3	Virgo dan Scorpio

4. Langkah selanjutnya yaitu :

- Menambahkan konfigurasi Trunking pada segmen switch 1
- Menentukan port yang akan dilakukan konfigurasi Trunk pada switch
- Melakukan setting konfigurasi sesuai modul praktikum

The image displays two screenshots of a Cisco IOS Command Line Interface (CLI) for a switch named 'Switch1'. The top screenshot shows the configuration process for interface Fa0/24, including enabling the port, setting it to trunk mode, and displaying the current configuration. The bottom screenshot shows the same CLI after the configuration is complete, displaying the status of the trunk port and the list of allowed VLANs.

```
Switch>enable
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)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/24, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/24, changed state to up

Switch(config-if)#exit
Switch(config)#show int fa 0/1 sw
Switch#
% Invalid input detected at '^' marker.

Switch(config)#ex
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#show int fa 0/1 sw
Name: Fa0/1
Switchport: Enabled
Administrative Mode: static access
Operational Mode: static access
Administrative Trunking Encapsulation: dot1q
Operational Trunking Encapsulation: native
Negotiation of Trunking: Off
Access Mode VLAN: 10 (sodiaki)
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

Ctrl+F6 to exit CLI focus
```

Ctrl+F6 to exit CLI focus

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

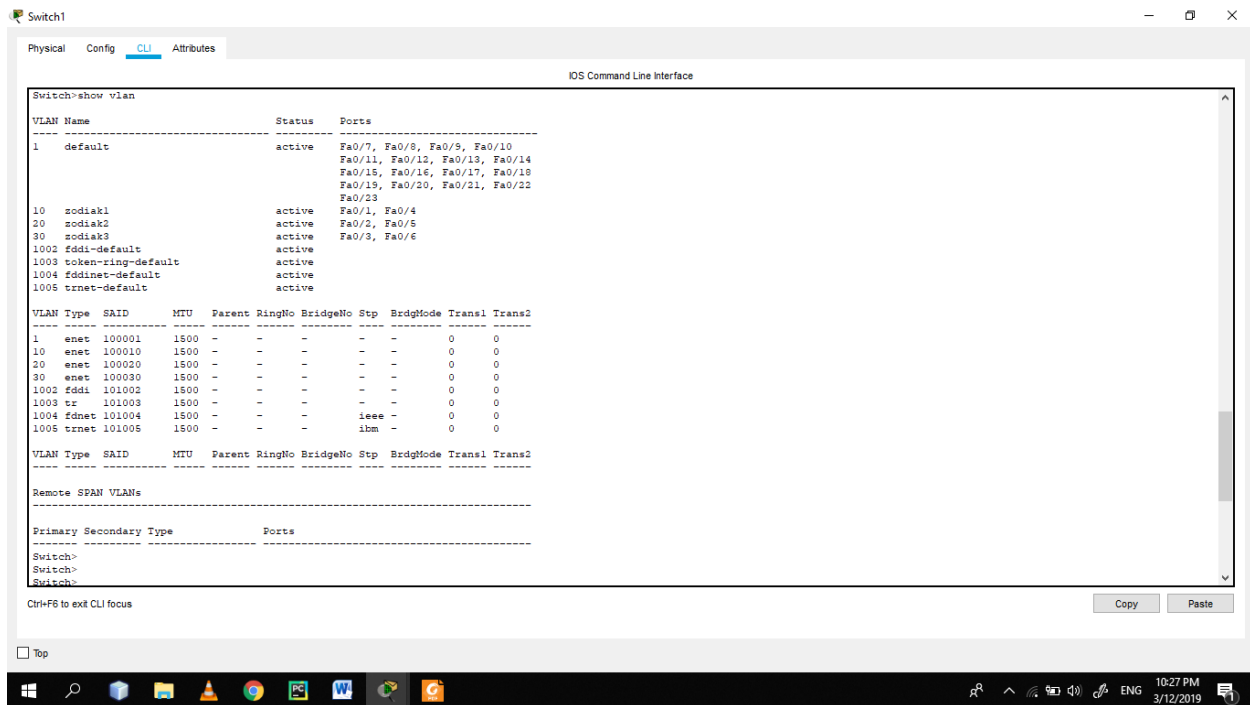
Port      Vlans allowed on trunk
Fa0/24    1-1005

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

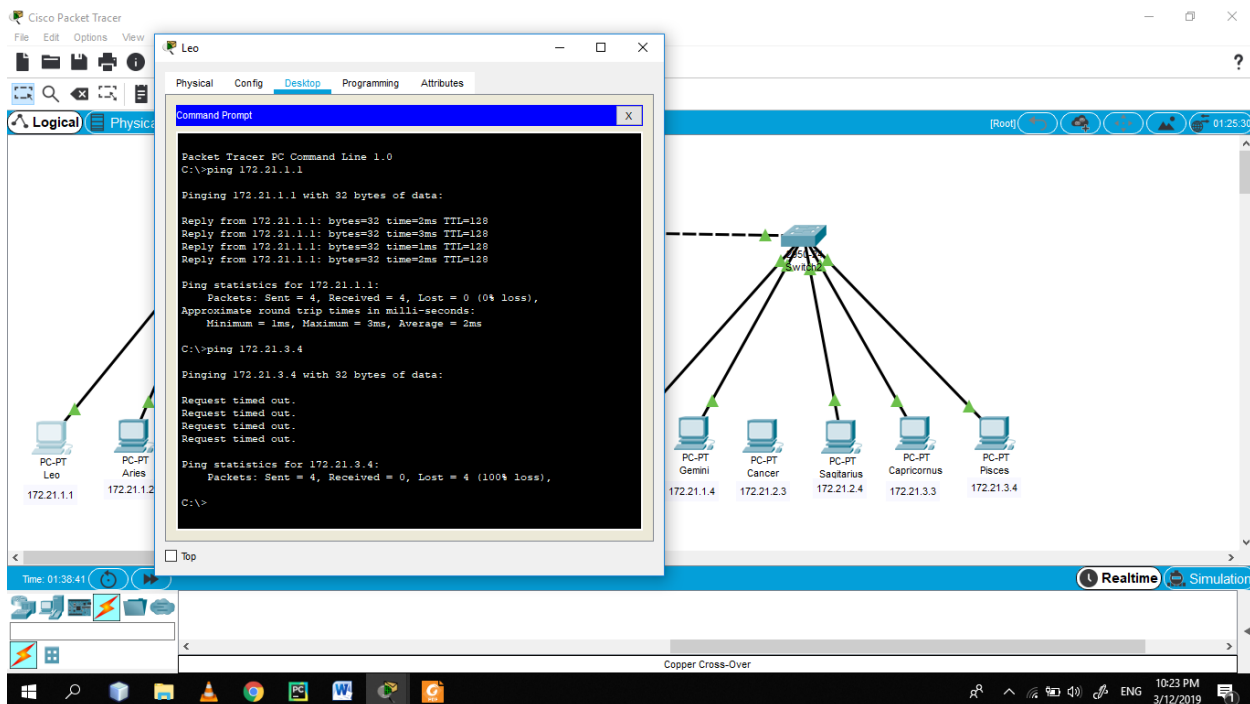
Port      Vlans in spanning tree forwarding state and not pruned
Fa0/24    1,10,20,30

Switch#
```

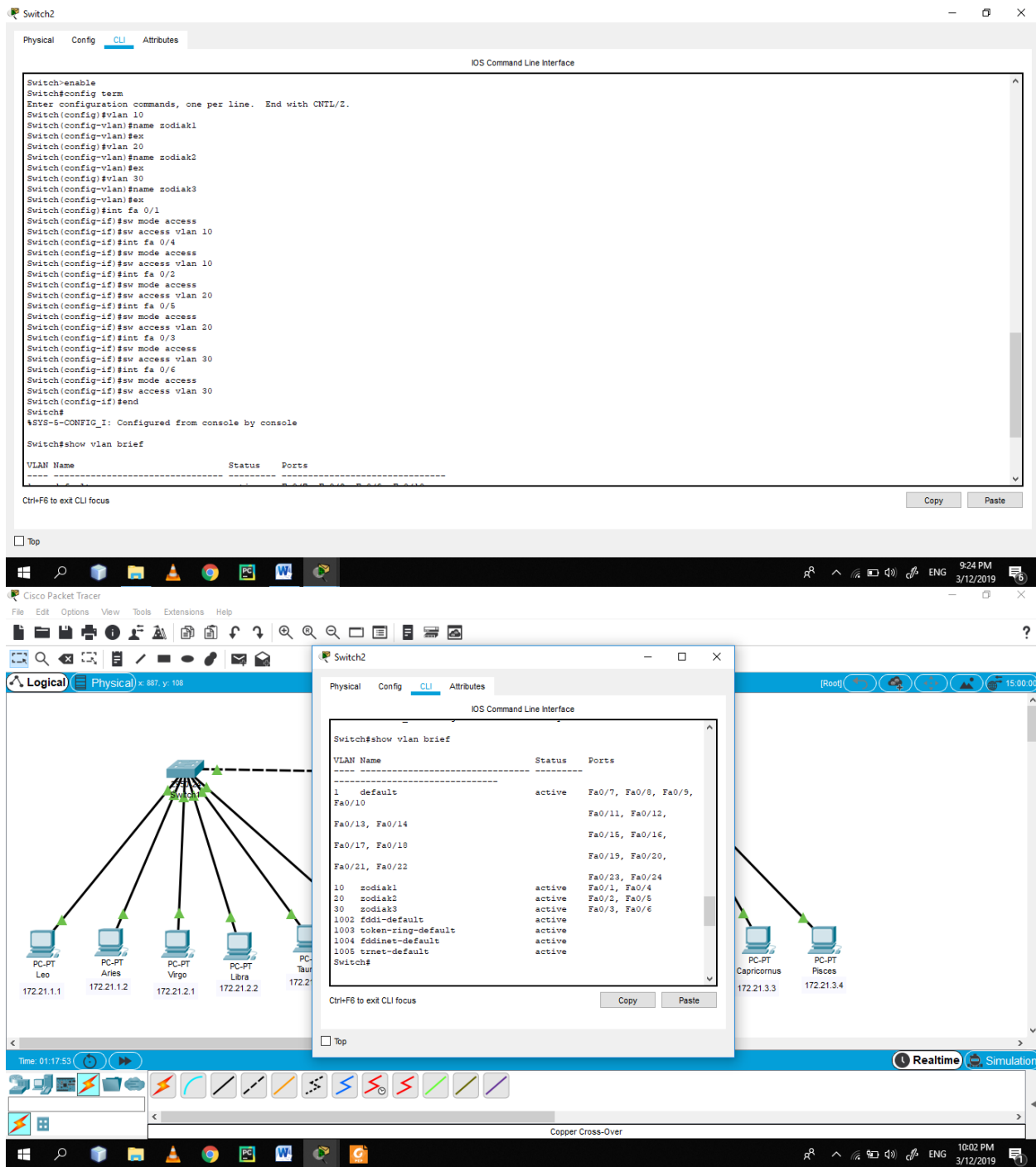
Ctrl+F6 to exit CLI focus



5. Ping dari Pc Leo ke Pc Pisces



6. Konfigurasi pada segmen switch 2 dengan mode *user* atau mode *privileged*



No	VLAN ID / Nama	Host
1	10 / Zodiak1	Aquarius dan Gemini
2	20 / Zodiak2	Cancer dan Sagitarius
3	30 / Zodiak3	Capricornus dan Pisces

7. Langkah selanjutnya yaitu :

- Menambahkan konfigurasi Trunking pada segmen switch 1

- Menentukan port yang akan dilakukan konfigurasi Trunk pada switch
- Melakukan setting konfigurasi sesuai modul praktikum

Switch2

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Switch>enable
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)#
Switch(config-if)#ex
Switch(config)#ex
Switch#
%SYS-6-CONFIG_I: Configured from console by console

Switch#show int fa 0/1 sw
Name: Fa0/1
Switchport: Enabled
Administrative Mode: static access
Operational Mode: static access
Administrative Trunking Encapsulation: dot1q
Operational Trunking Encapsulation: native
Negotiation of Trunking: Off
Access Mode VLAN: 10 (zodiak1)
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: 1-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL
Protected: false
Appliance trust: none

Switch#sowm int trunk
^
```

Ctrl+F6 to exit CLI focus

Copy Paste

Top

Switch2

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Protected: false
Appliance trust: none

Switch#sowm int trunk
^
% Invalid input detected at '^' marker.

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

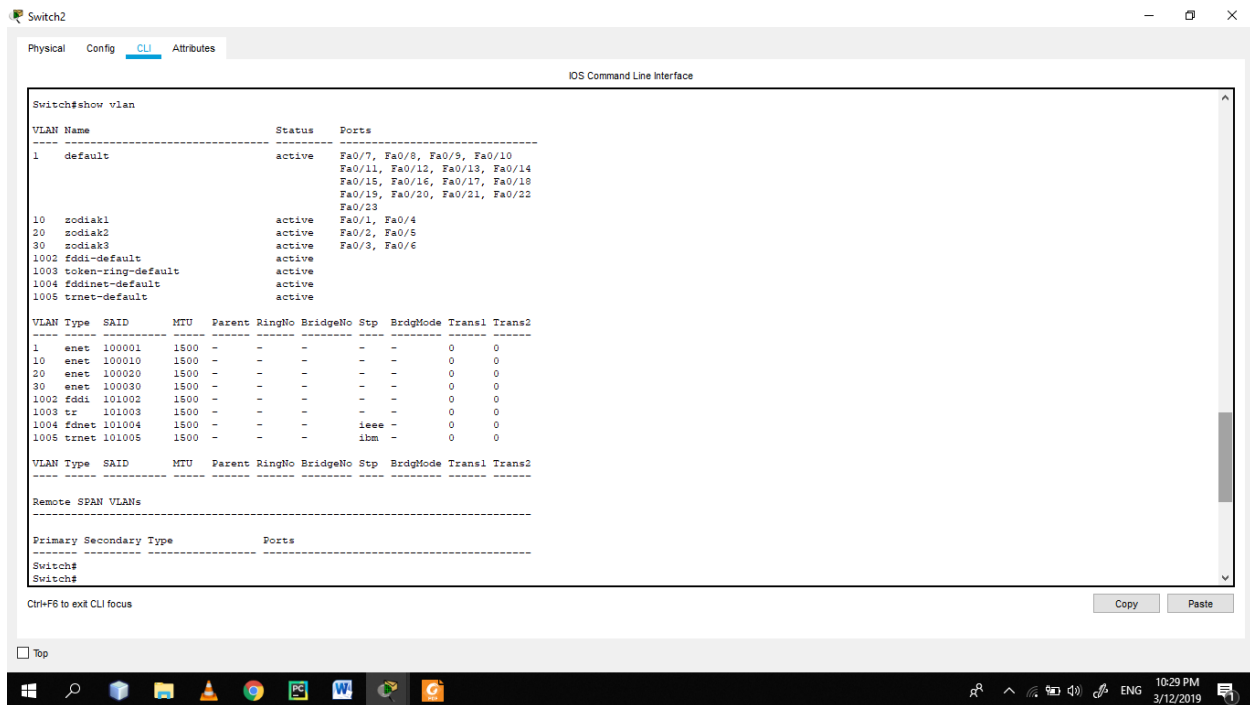
Switch#show int fa 0/24 trunk
^
% Invalid input detected at '^' marker.

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
```

Ctrl+F6 to exit CLI focus

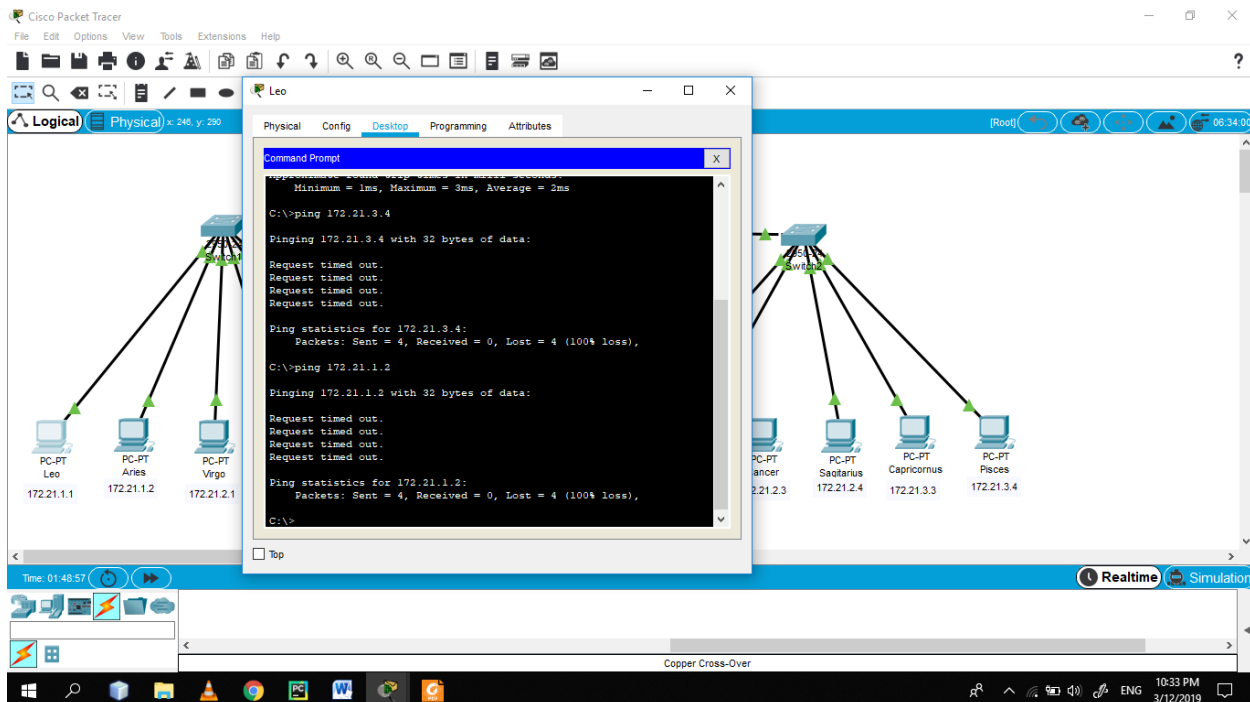
Copy Paste

Top

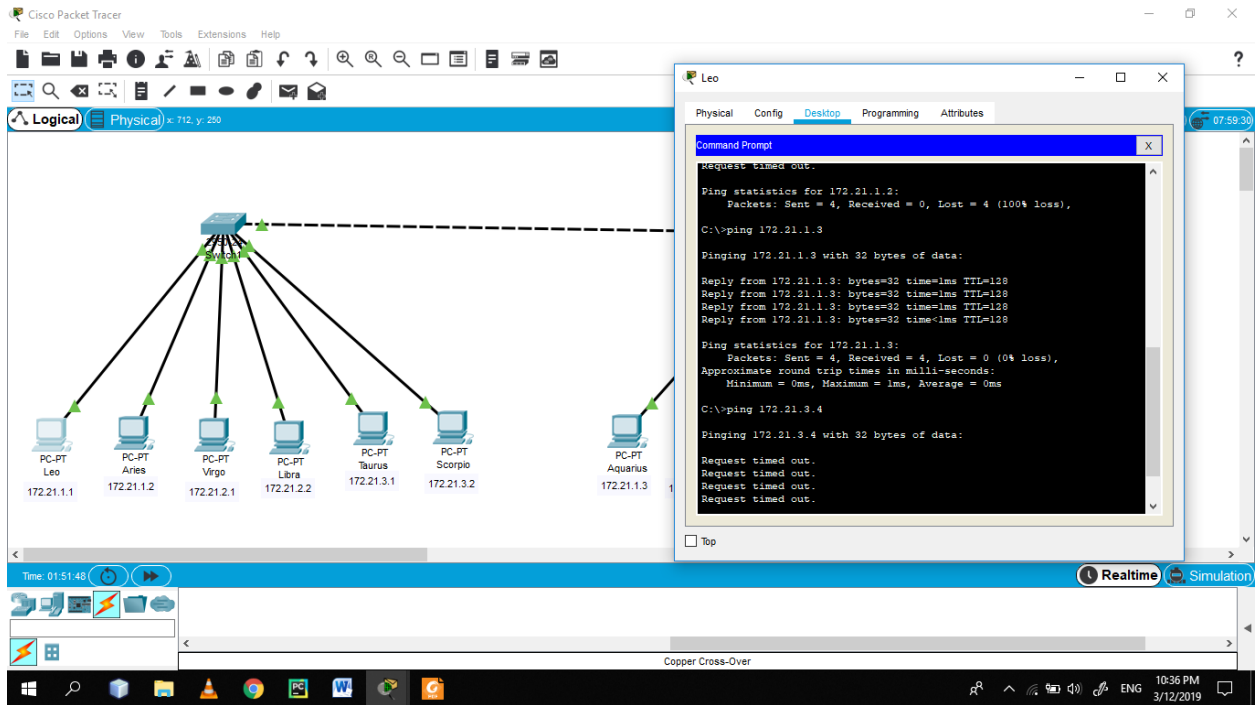


8. Langkah terakhir melakukan ping terhadap beberapa pc

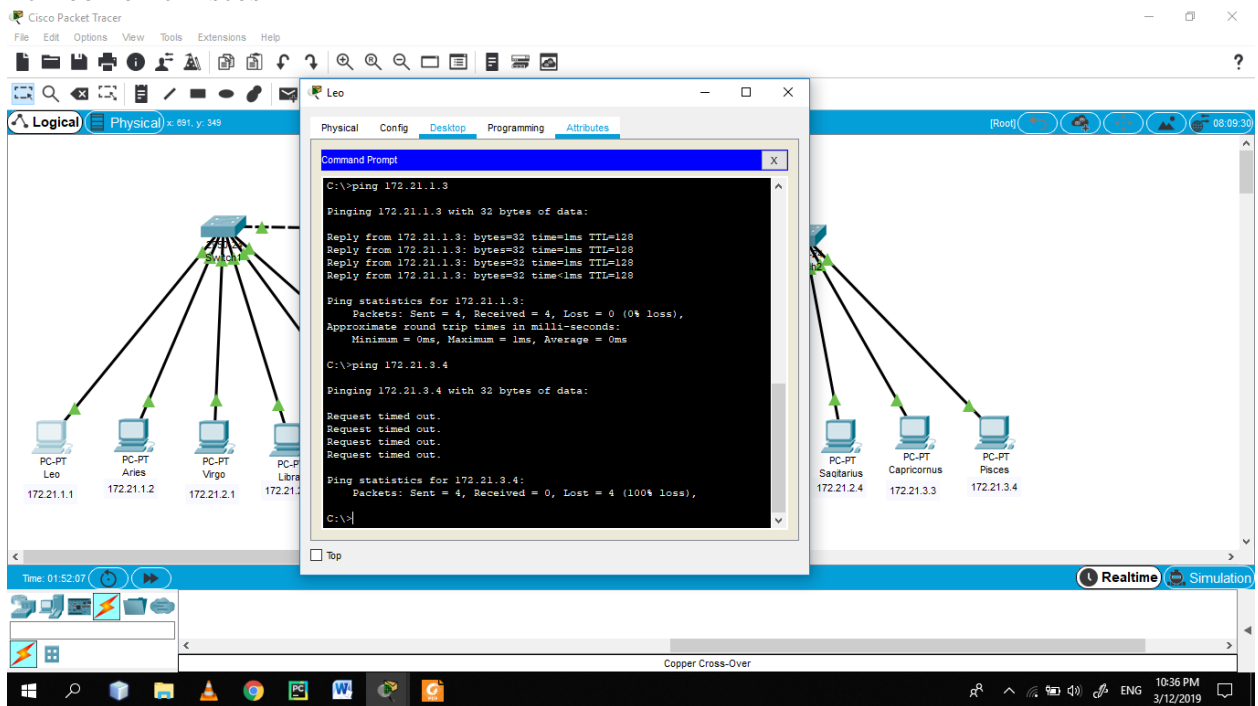
Pc Leo ke Pc Aries



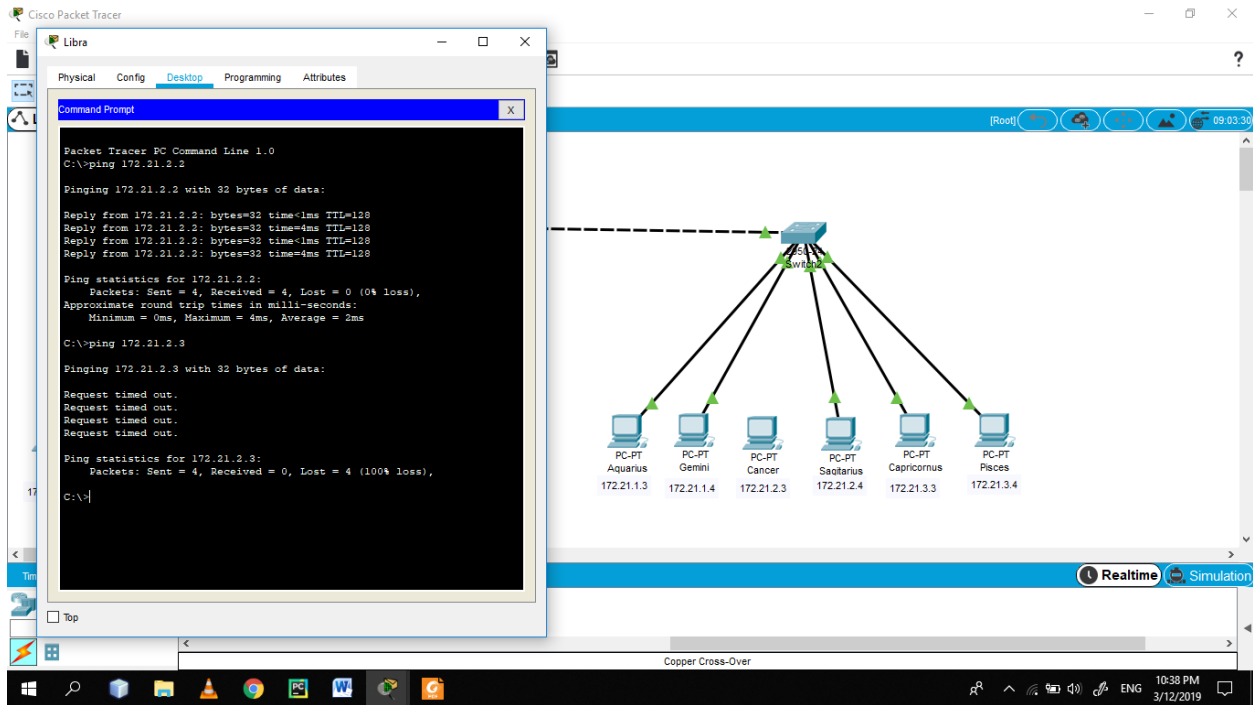
Pc Leo ke Pc Aquarius



Pc Leo ke Pc Pisces



Pc Libra ke Pc Cancer



Pc Libra ke Leo

