LAPORAN PRAKTIKUM JARINGAN KOMPUTER

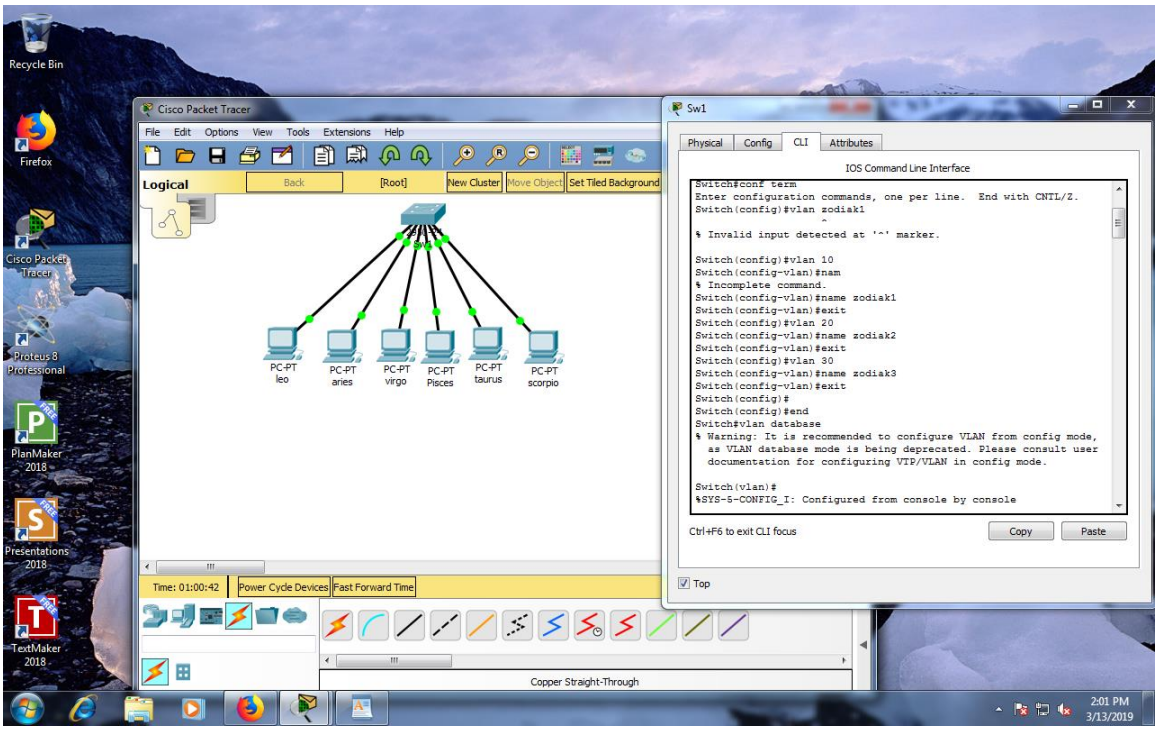
MODUL 4

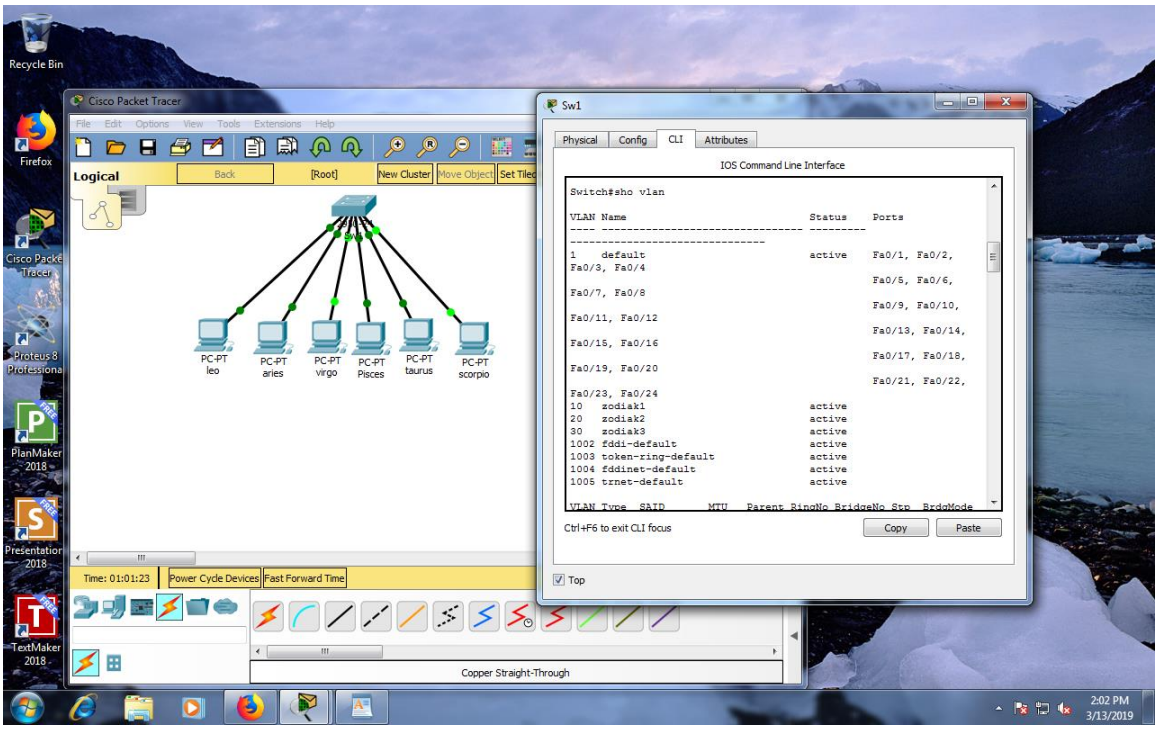
Nama: Sugiyo

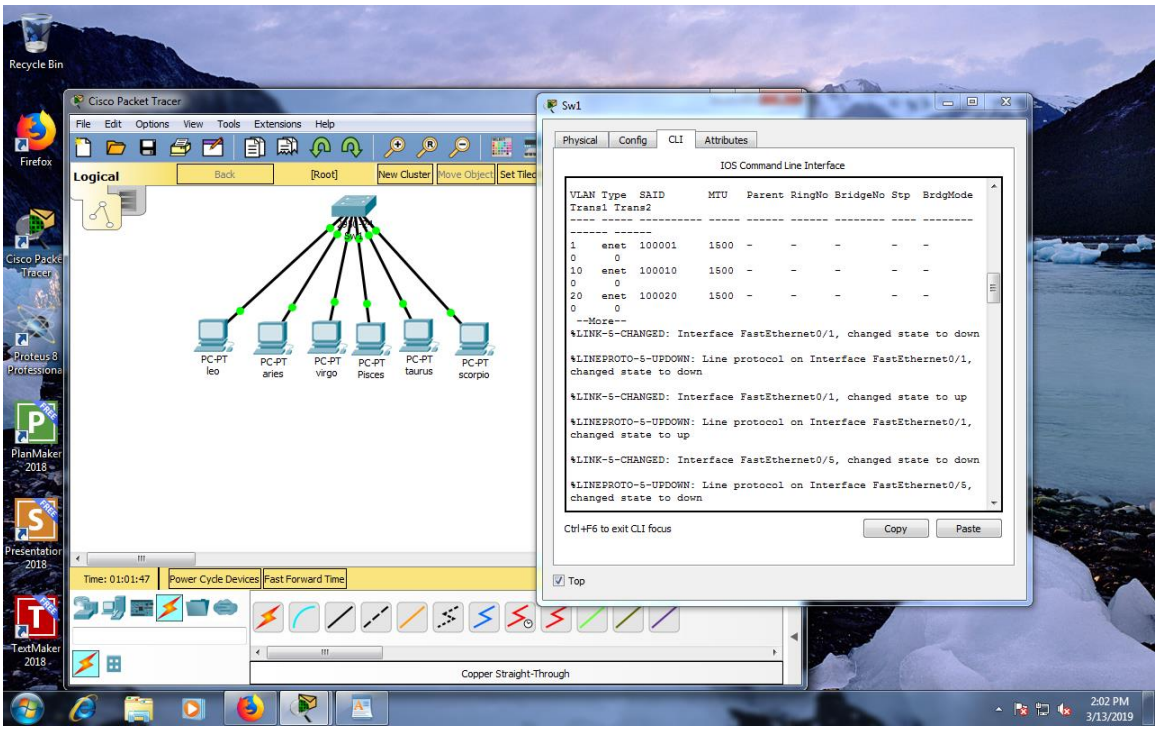
NIM: L200170002

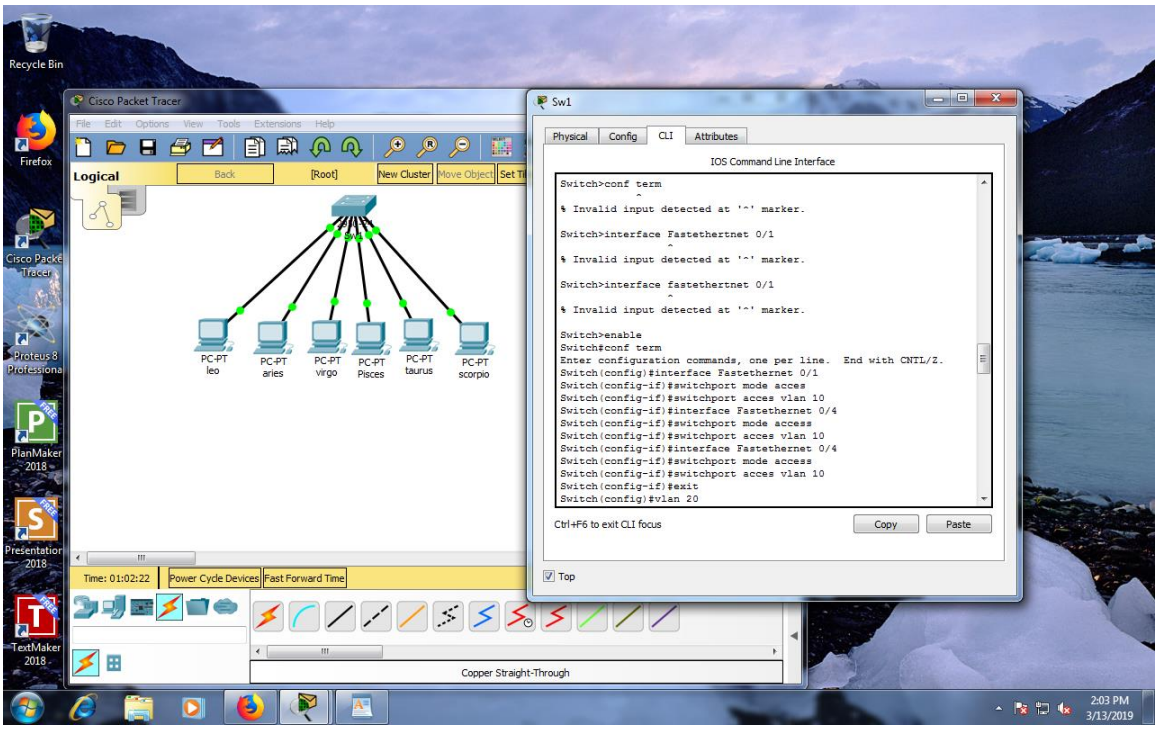
Kelas: A

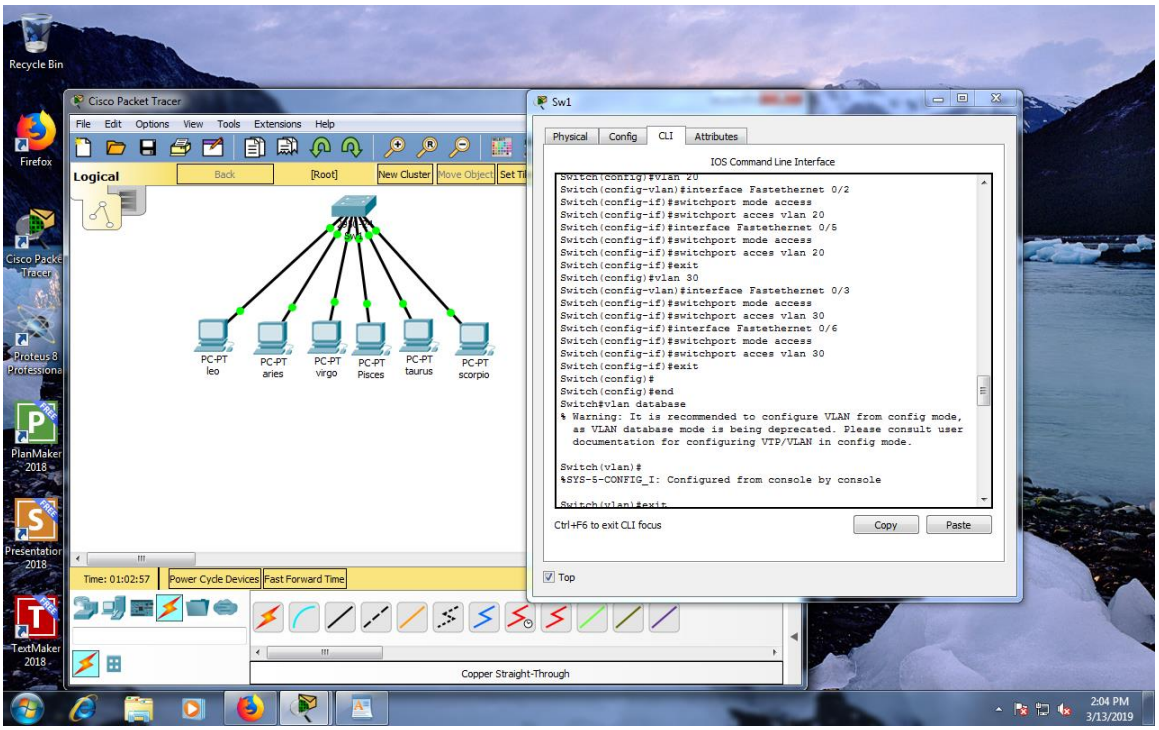
Kegiatan 1.

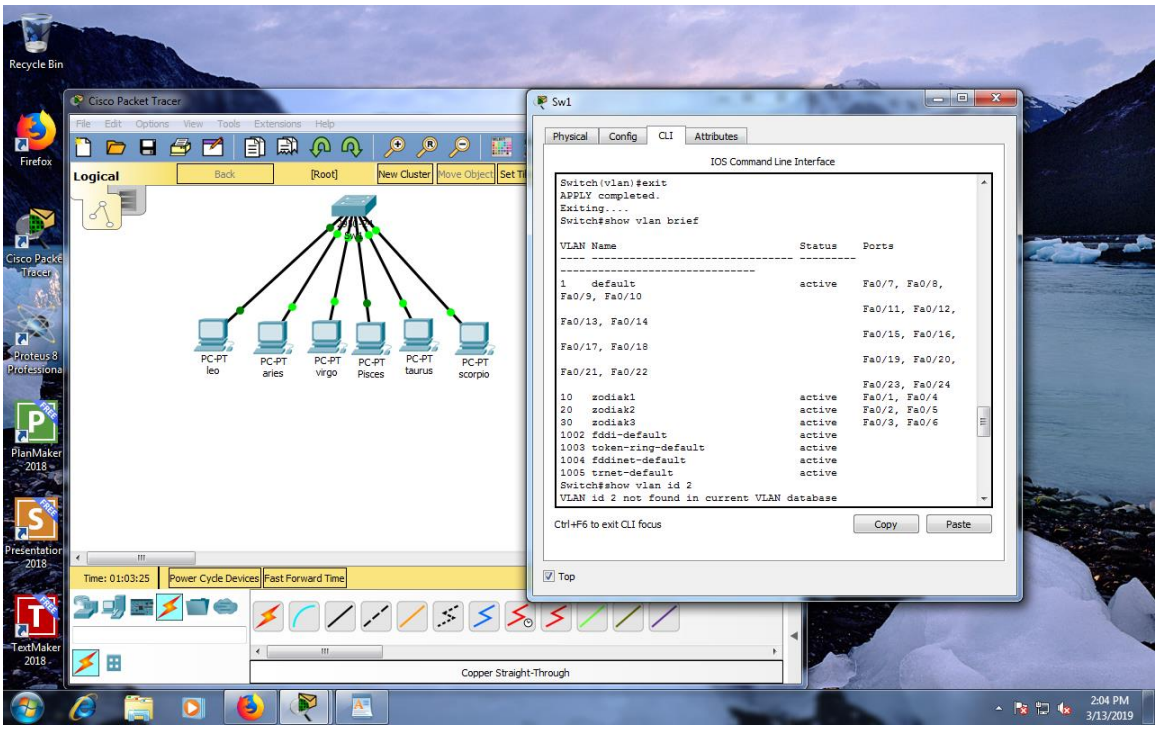


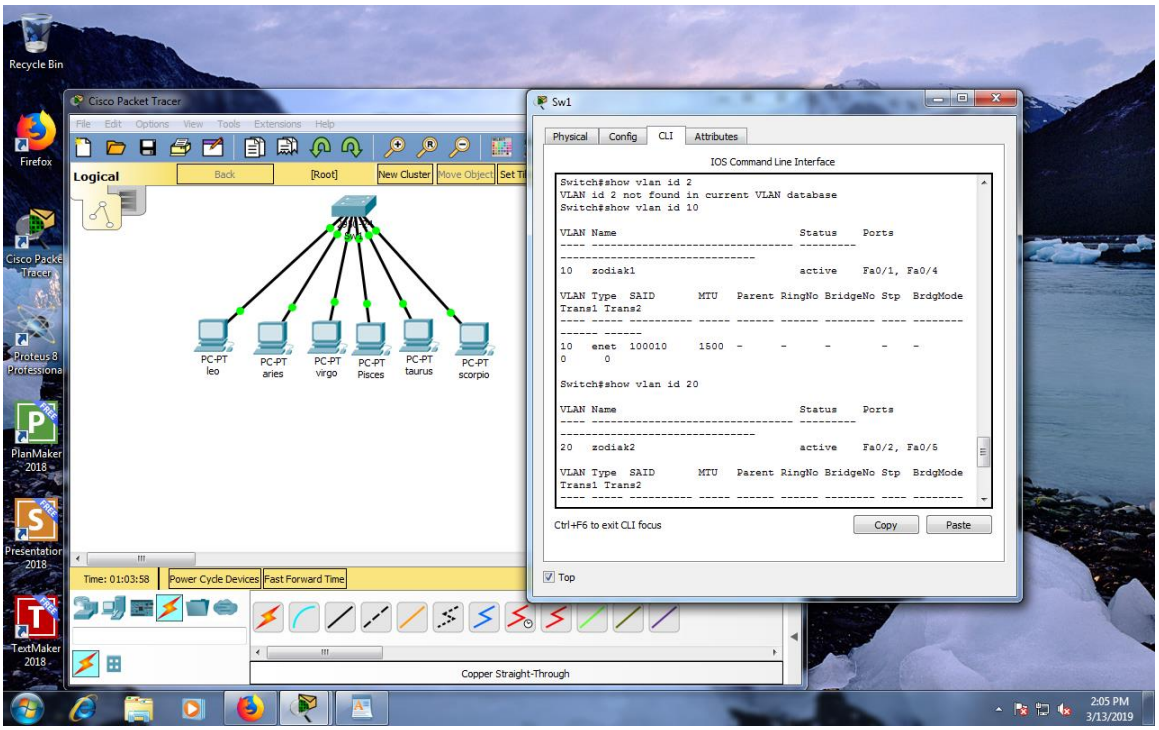

Cisco Packet Tracer
File Edit Options View Tools Extensions Help
Logical
Back
[Root]
New Cluster
Move Object
Set Tiled
PC-PT leo
PC-PT aries
PC-PT virgo
PC-PT Pisces
PC-PT taurus
PC-PT scorpio
Time: 01:01:23
Power Cycle Devices
Fast Forward Time
Copper Straight-Through
Sw1
Physical
Config
CLI
Attributes
IOS Command Line Interface
Switch#sho 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
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
Ctrl+F6 to exit CLI focus
Copy
Paste
Top
Recycle Bin
Firefox
Cisco Packet Tracer
Proteus 8 Professional
PlanMaker 2018
Presentation 2018
TextMaker 2018
2:02 PM
3/13/2019

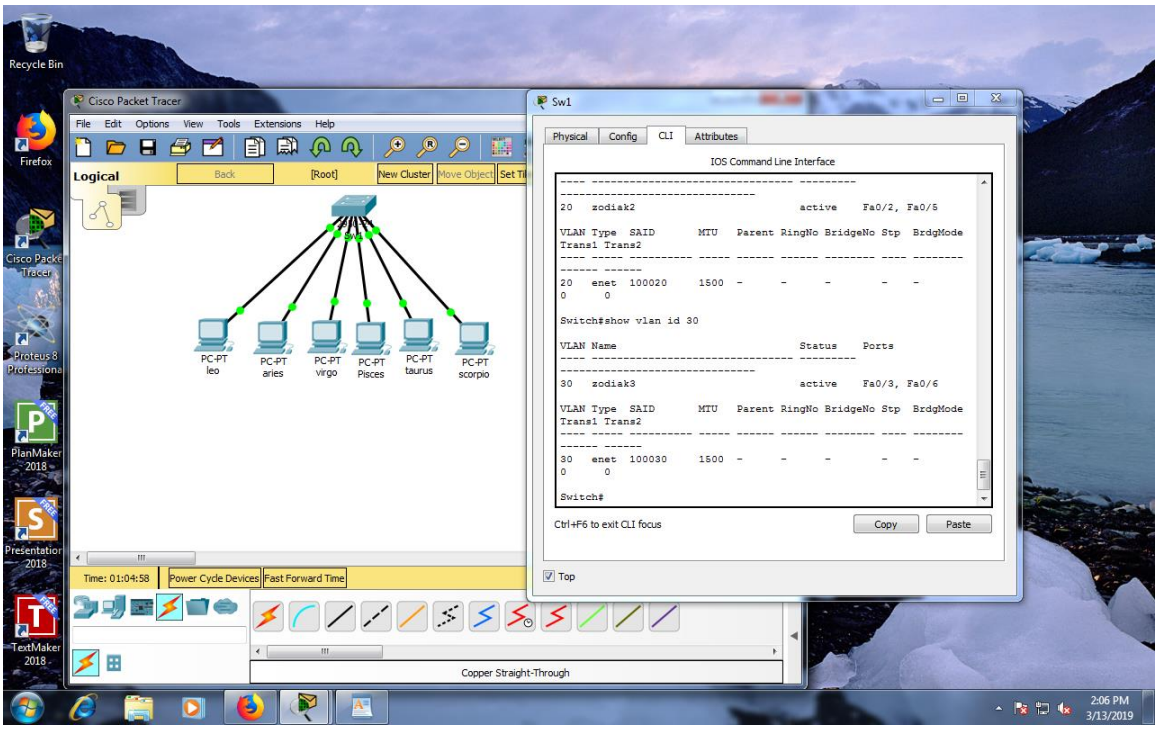

Cisco Packet Tracer
File Edit Options View Tools Extensions Help
Logical
Back
[Root]
New Cluster
Move Object
Set Tiled
PC-PT leo
PC-PT aries
PC-PT virgo
PC-PT Pisces
PC-PT taurus
PC-PT scorpio
Time: 01:01:47
Power Cycle Devices
Fast Forward Time
Copper Straight-Through
Sw1
Physical
Config
CLI
Attributes
IOS Command Line Interface
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
--More--
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to down
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/5, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/5, changed state to down
Ctrl+F6 to exit CLI focus
Copy
Paste
Top
Recycle Bin
Firefox
Cisco Packet Tracer
Proteus 8 Professional
PlanMaker 2018
Presentation 2018
TextMaker 2018
2:02 PM
3/13/2019


Cisco Packet Tracer
File Edit Options View Tools Extensions Help
Logical
Back
[Root]
New Cluster
Move Object
PC-PT leo
PC-PT aries
PC-PT virgo
PC-PT Pisces
PC-PT taurus
PC-PT scorpio
Time: 01:02:22
Power Cycle Devices
Fast Forward Time
Copper Straight-Through
Sw1
Physical
Config
CLI
Attributes
IOS Command Line Interface
Switch>conf term
% Invalid input detected at '^' marker.
Switch>interface Fastethertnet 0/1
% Invalid input detected at '^' marker.
Switch>interface fastethertnet 0/1
% Invalid input detected at '^' marker.
Switch>enable
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface Fastethernet 0/1
Switch(config-if)#switchport mode acces
Switch(config-if)#switchport acces vlan 10
Switch(config-if)#interface Fastethernet 0/4
Switch(config-if)#switchport mode access
Switch(config-if)#switchport acces vlan 10
Switch(config-if)#interface Fastethernet 0/4
Switch(config-if)#switchport mode access
Switch(config-if)#switchport acces vlan 10
Switch(config-if)#exit
Switch(config)#vlan 20
Ctrl+F6 to exit CLI focus
Copy
Paste
Top
2:03 PM
3/13/2019


Cisco Packet Tracer
File Edit Options View Tools Extensions Help
Logical
Back
[Root]
New Cluster
Move Object
PC-PT leo
PC-PT aries
PC-PT virgo
PC-PT Pisces
PC-PT taurus
PC-PT scorpio
Time: 01:02:57
Power Cycle Devices
Fast Forward Time
Copper Straight-Through
Sw1
Physical
Config
CLI
Attributes
IOS Command Line Interface
Switch(config)#vlan 20
Switch(config-vlan)#interface Fastethernet 0/2
Switch(config-if)#switchport mode access
Switch(config-if)#switchport acces vlan 20
Switch(config-if)#interface Fastethernet 0/5
Switch(config-if)#switchport mode access
Switch(config-if)#switchport acces vlan 20
Switch(config-if)#exit
Switch(config)#vlan 30
Switch(config-vlan)#interface Fastethernet 0/3
Switch(config-if)#switchport mode access
Switch(config-if)#switchport acces vlan 30
Switch(config-if)#interface Fastethernet 0/6
Switch(config-if)#switchport mode access
Switch(config-if)#switchport acces vlan 30
Switch(config-if)#exit
Switch(config)#
Switch(config)#end
Switch#vlan database
% Warning: It is recommended to configure VLAN from config mode,
as VLAN database mode is being deprecated. Please consult user
documentation for configuring VTP/VLAN in config mode.
Switch(vlan)#
%SYS-5-CONFIG_I: Configured from console by console
Switch(vlan)#exit
Ctrl+F6 to exit CLI focus
Copy
Paste
Top
2:04 PM
3/13/2019


Cisco Packet Tracer
Sw1
Physical
Config
CLI
Attributes
IOS Command Line Interface
Switch(vlan)#exit
APPLY completed.
Exiting....
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 2
VLAN id 2 not found in current VLAN database
Ctrl+F6 to exit CLI focus
Copy
Paste
Top
Logical
Back
[Root]
New Cluster
Move Object
PC-PT leo
PC-PT aries
PC-PT virgo
PC-PT Pisces
PC-PT taurus
PC-PT scorpio
Time: 01:03:25
Power Cycle Devices
Fast Forward Time
Copper Straight-Through
2:04 PM
3/13/2019

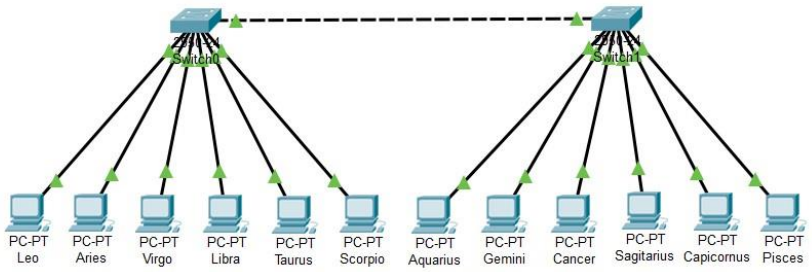

Cisco Packet Tracer
Sw1
Physical
Config
CLI
Attributes
IOS Command Line Interface
Switch#show vlan id 2
VLAN id 2 not found in current VLAN database
Switch#show vlan id 10
VLAN Name Status Ports
10 zodiak1 active Fa0/1, Fa0/4
VLAN Type SAID MTU Parent RingNo BridgeNo Stp BrdgMode Trans1 Trans2
10 enet 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
Ctrl+F6 to exit CLI focus
Copy
Paste
Top
Logical
Back
[Root]
New Cluster
Move Object
PC-PT leo
PC-PT aries
PC-PT virgo
PC-PT Pisces
PC-PT taurus
PC-PT scorpio
Time: 01:03:58
Power Cycle Devices
Fast Forward Time
Copper Straight-Through
2:05 PM
3/13/2019



No	Nama Variabel	nilai		
1.	Nomor VLAN	10	20	30
2.	Nama VLAN	Zosiak1	Zodiak2	Zodiak3
3.	Port	Fa0/1,fa0/4	Fao/2,fa0/5	Fa03/fa06
4.	Status	aktive	aktive	aktive

Kegiatan 2

1. Menggunakan cisco acket tracer buat topologi berikut :

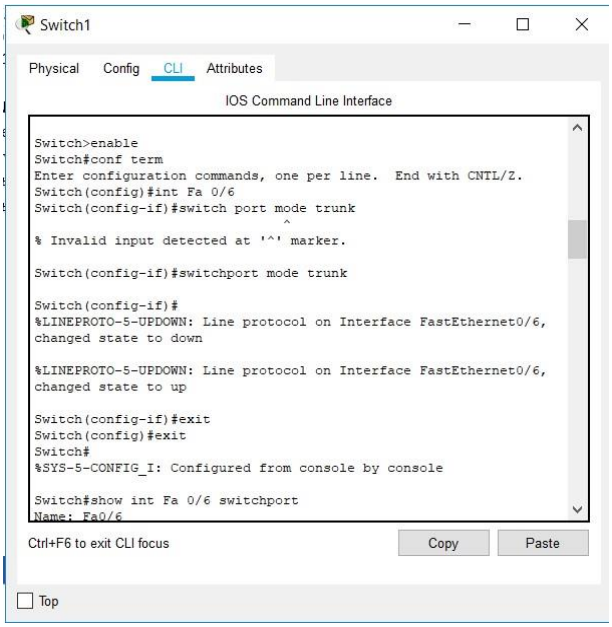


2. Beri nama masing-masing perangkat dengan SW1(switch 1), Leo(PC0), Aries(PC1), Virgo(PC2), Libra(PC3), Taurus(PC4), dan Scorpio(PC5) untuk segmen switch 1.
3. Beri nama masing-masing perangkat dengan SW2(switch 2), Aquarius(PC6), Gemini(PC7), Cancer(PC8), Sagitarius(PC9), Capricornus(PC10), dan Pisces(PC11) untuk segmen switch 2.
4. Konfigurasi masing-masing PC dengan nama dan alamat IP berikut ini :

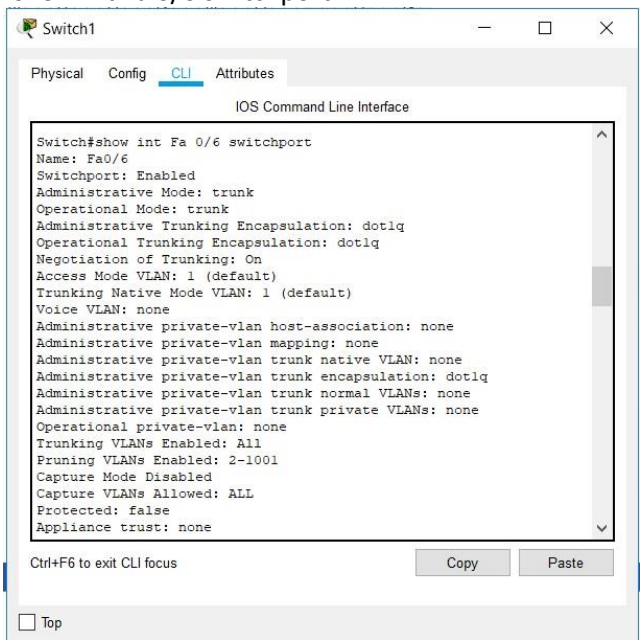
    - Leo = 172.21.1.1/24 ○ Aries = 172.21.1.2/24 ○ Virgo = 172.21.2.1/24 ○ Libra = 172.21.2.2/24 ○ Taurus = 172.21.3.1/24 ○ Scorpio = 172.21.3.2/24 ○ Aquarius = 172.21.1.3/24 ○ Gemini = 172.21.1.4/24 ○ Cancer = 172.21.2.3/24 ○ Sagitarius = 172.21.2.4/24 ○ Capriconus = 172.21.3.3/24
    - Pisces = 172.21.3.4/24

5. Konfigurasi VLAN trunking pada switch 1. Langkah pengoperasian :

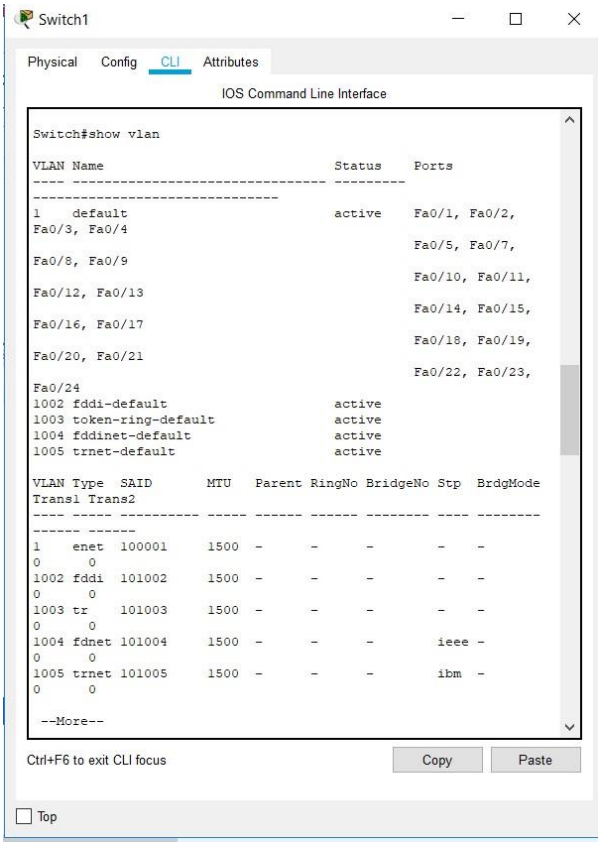
- Switch(config)#interface Fa 0/6
- Switch(config-if)#switchport mode trunk
- Switch(config-if)#exit



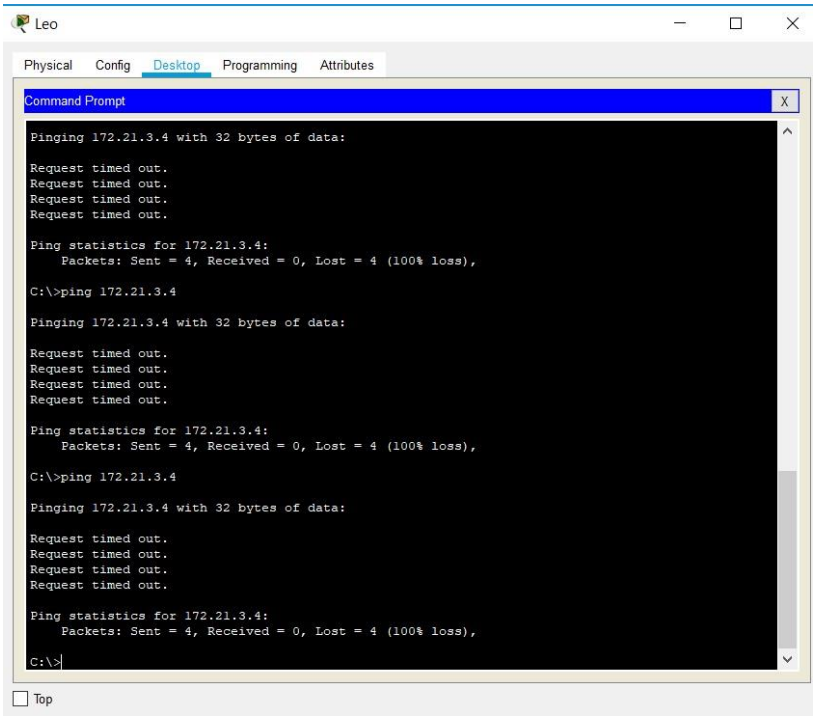
6. Melihat konfugurasi :
    - Ketik show int Fa 0/6 switchport



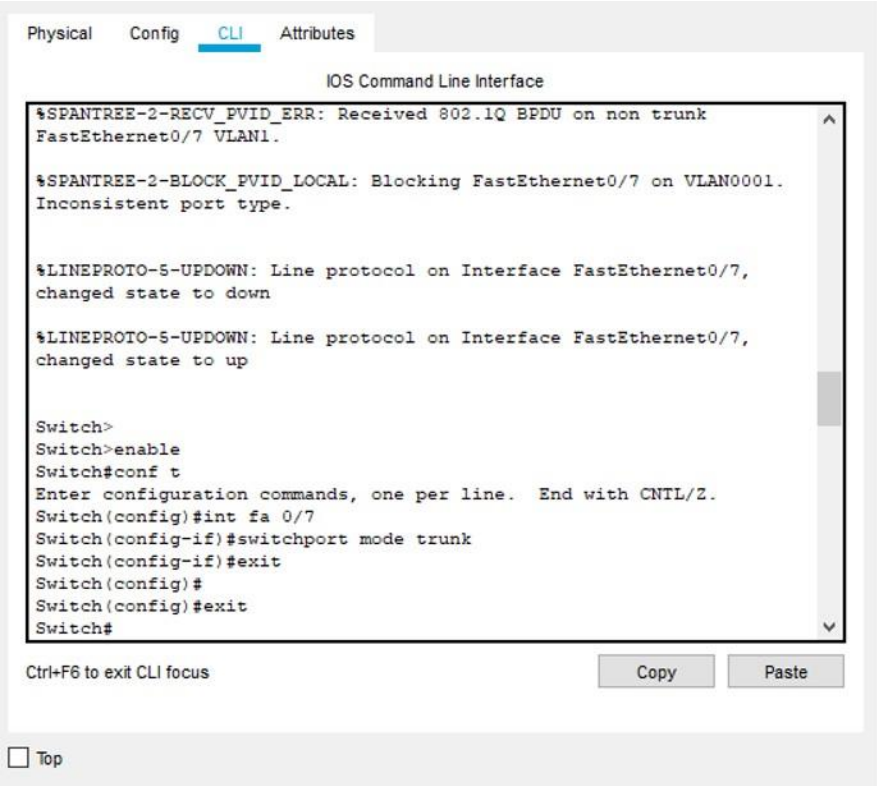
- Ketik show vlan



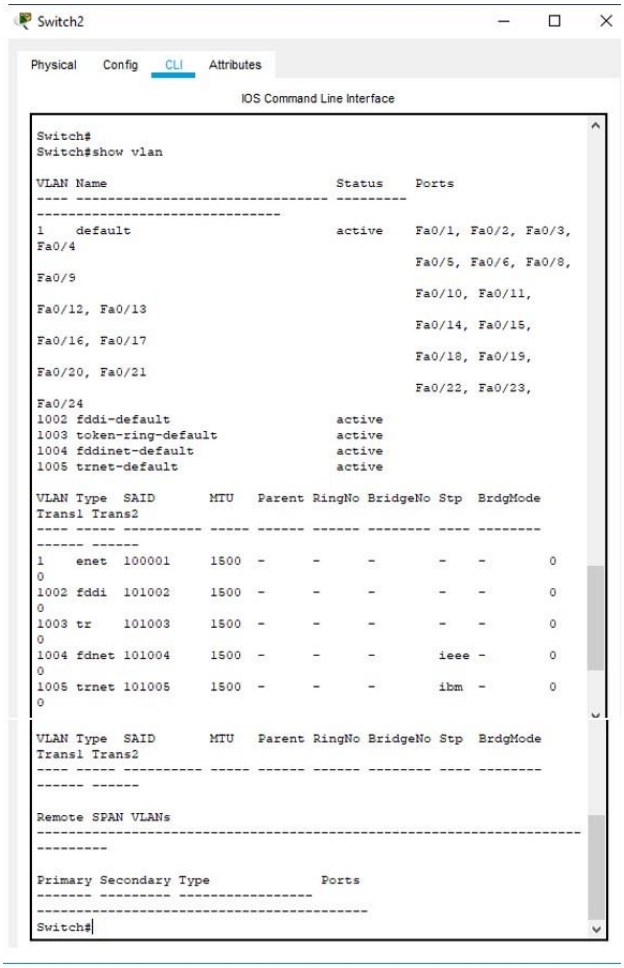
7. Lakukan PC Leoke PC Pisces



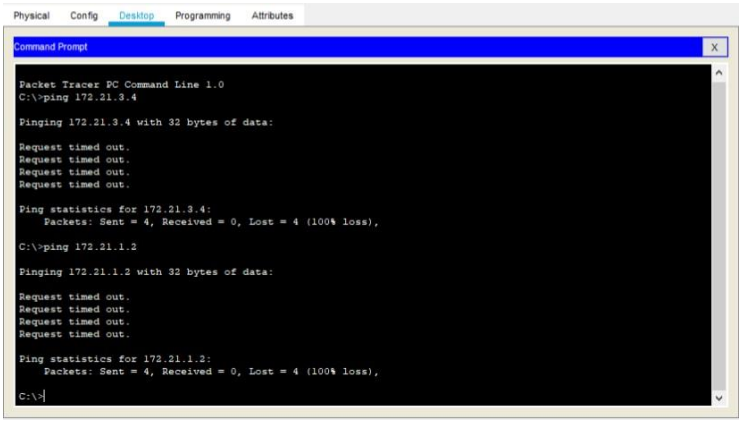
8. Konfigurasi VLAN trunking pada switch 2



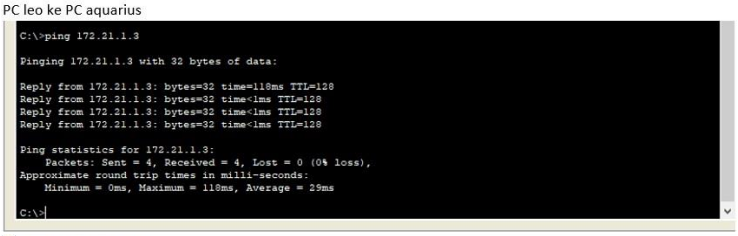
9. Melihat hasil konfigurasi trunking pada switch 2

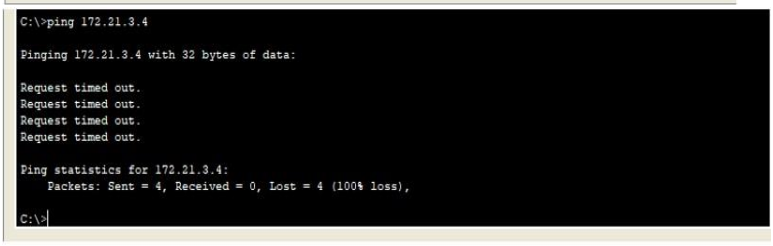


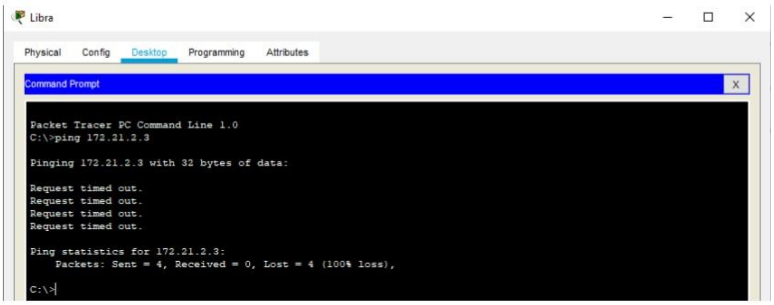
10. Uji coba ping

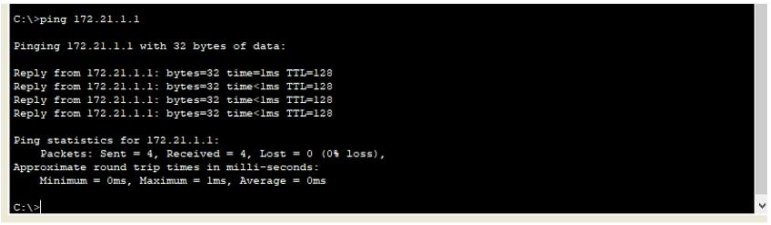


PC leo ke PC aquarius









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