Nama : Bachtaiar Nuhri Kurniawan

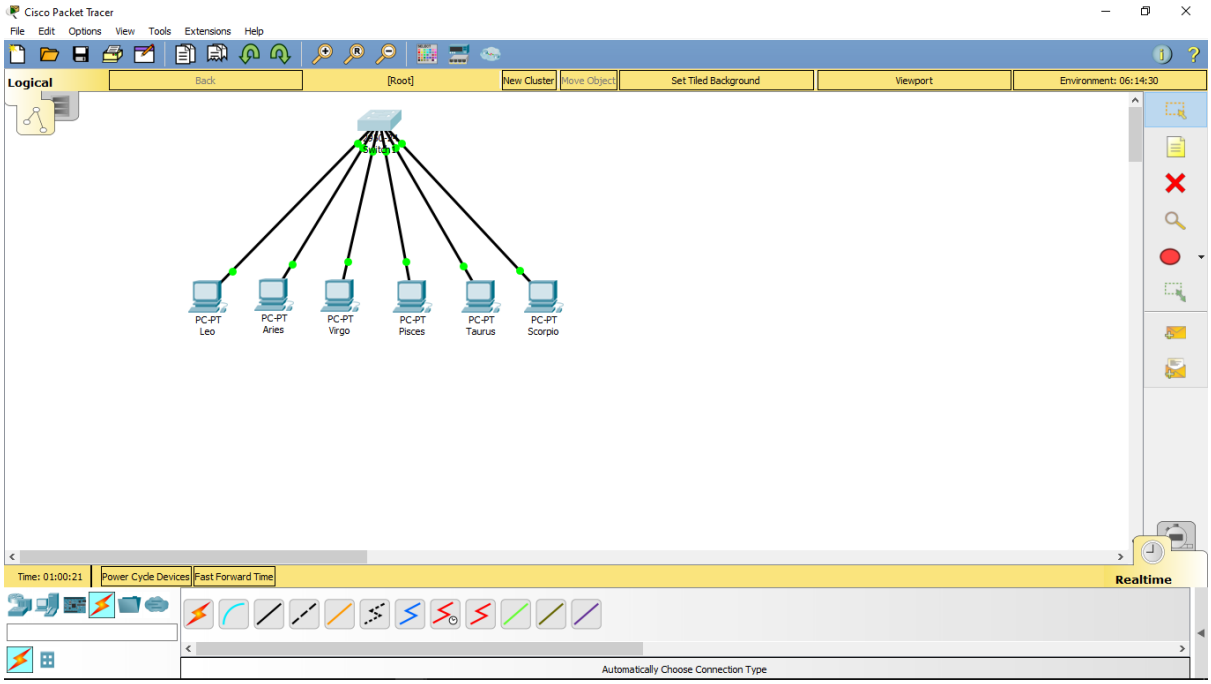
Nim : L200180031

Kelas : B

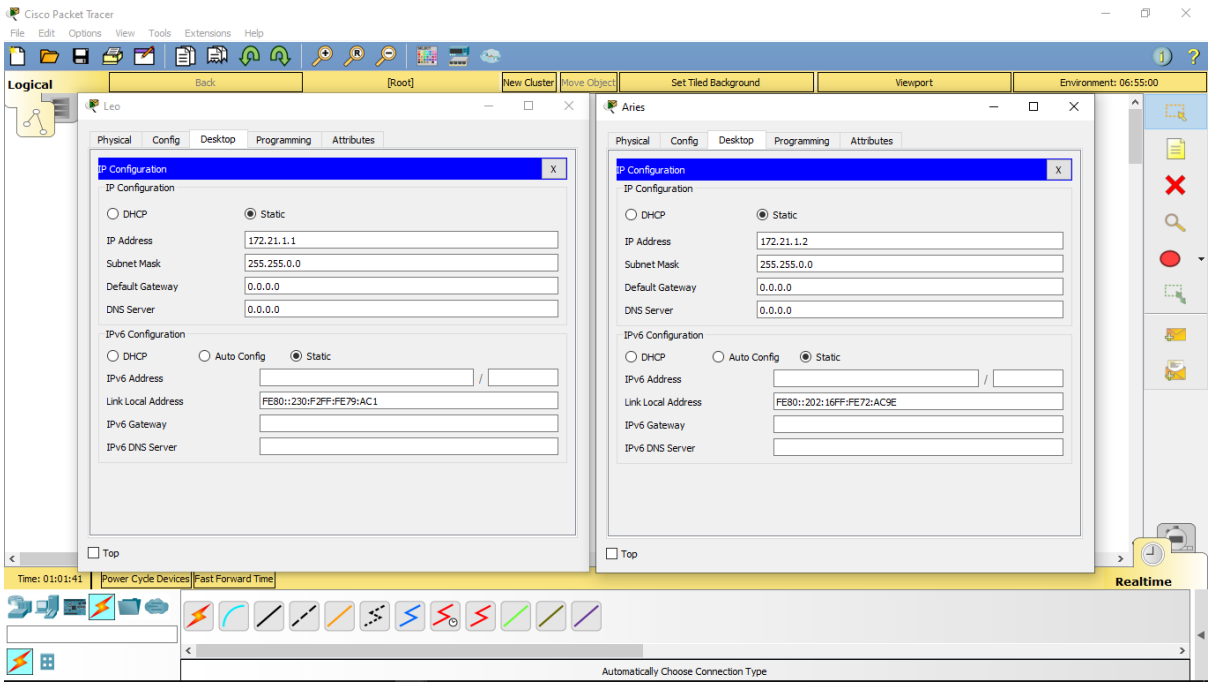
MODUL 4

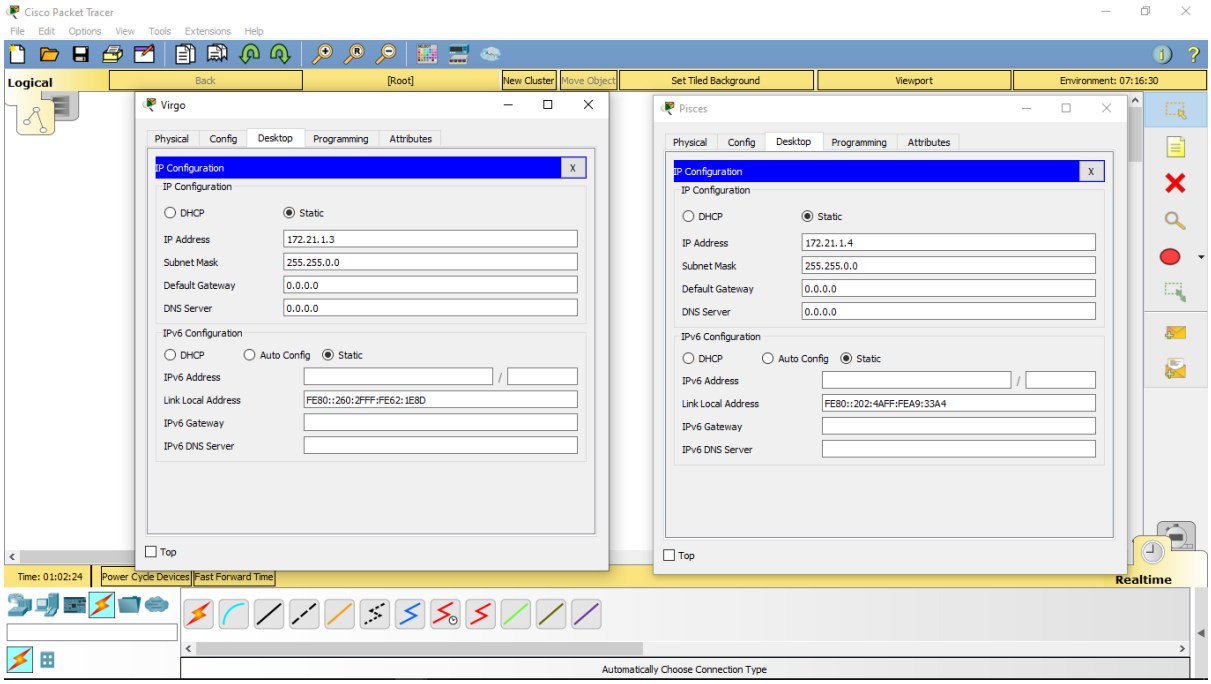
Kegiatan 1

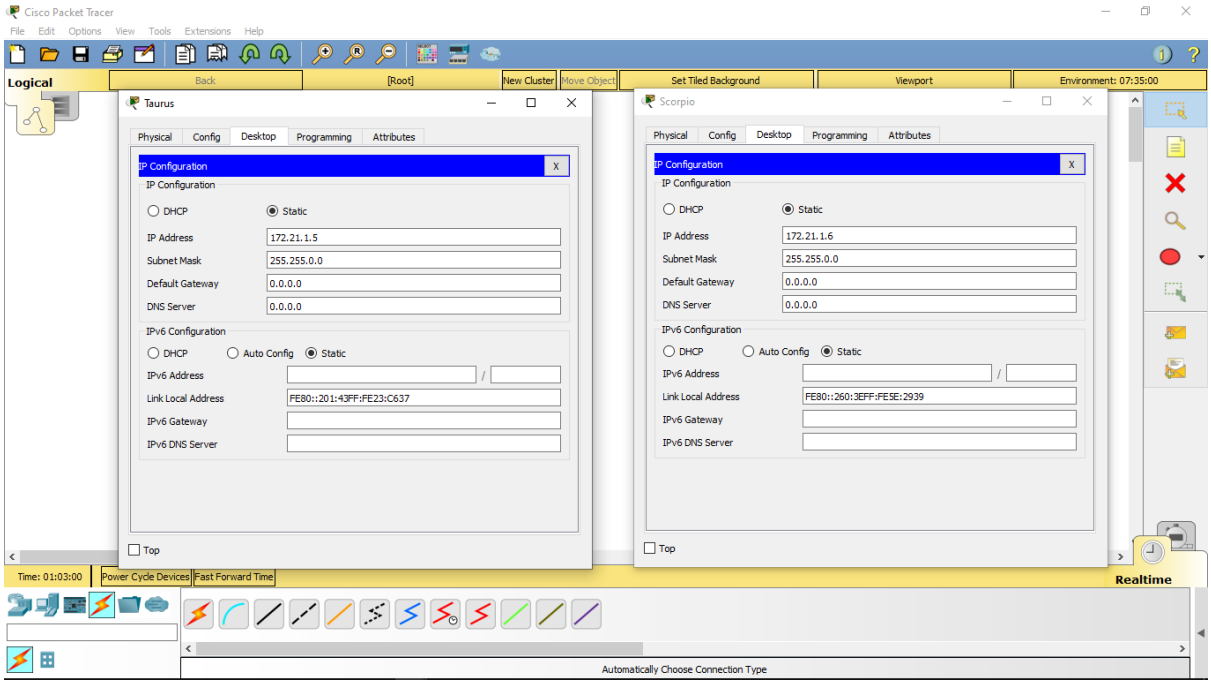
Membuat Topologi



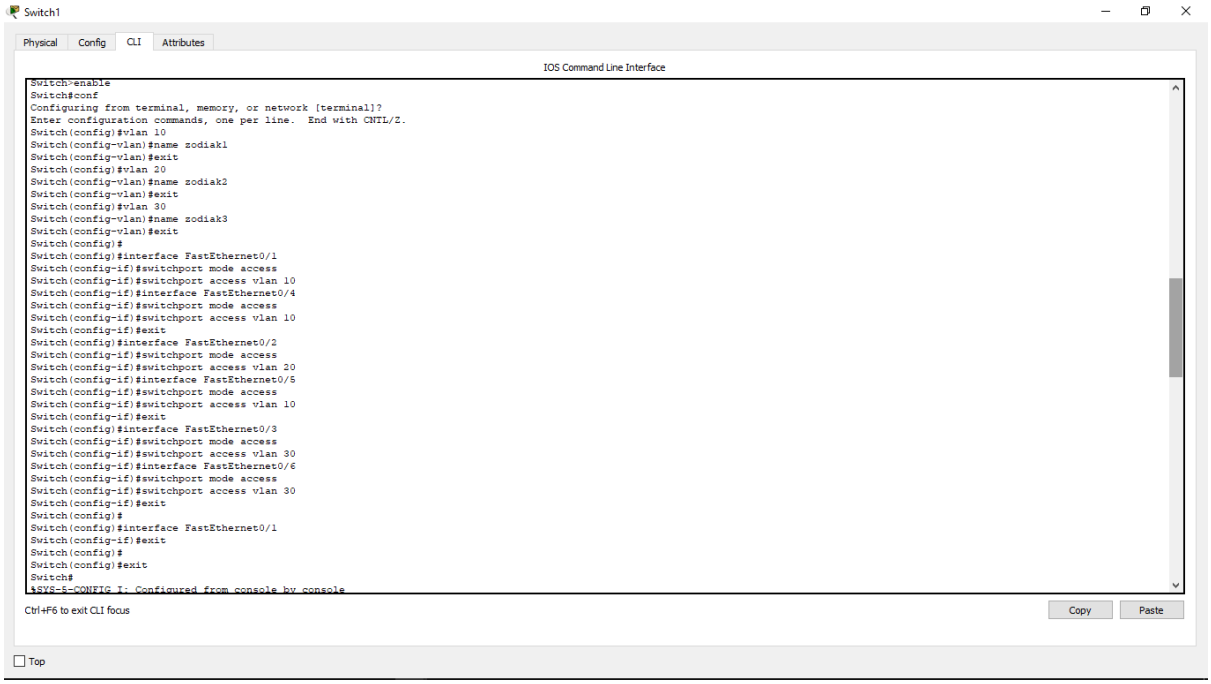
Konfigurasi masing masing PC



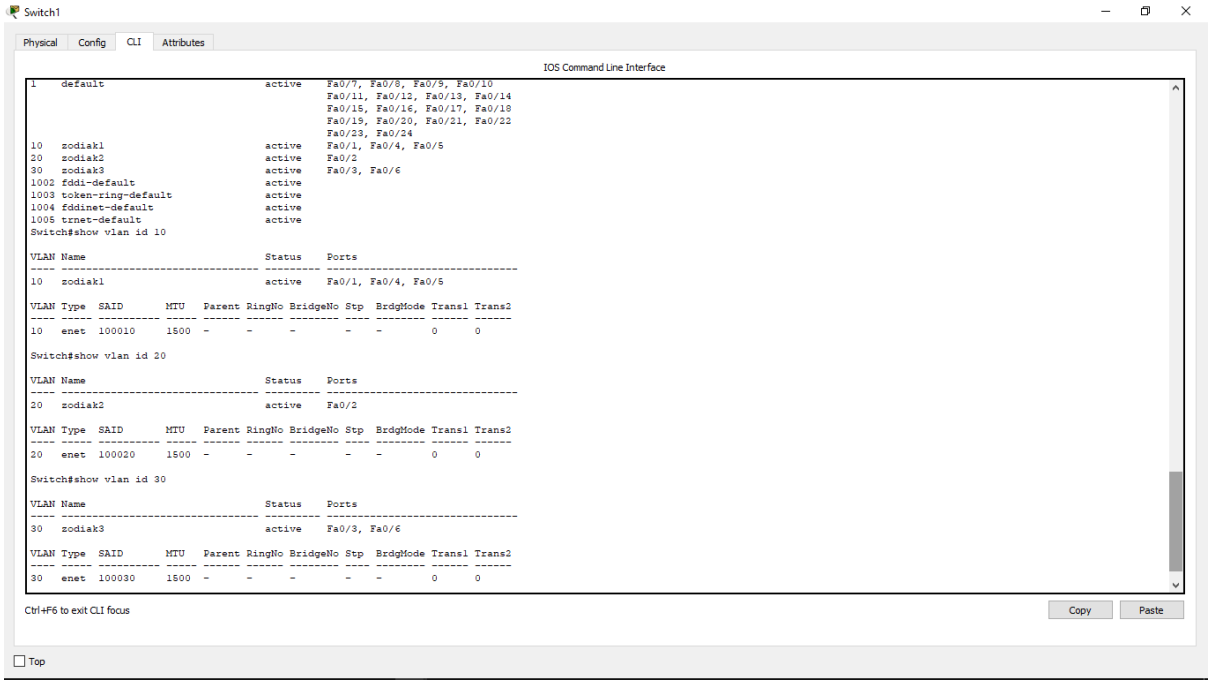

Cisco Packet Tracer
File Edit Options View Tools Extensions Help
Logical
Back
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
Environment: 07:16:30
Virgo
Physical Config Desktop Programming Attributes
IP Configuration
IP Configuration
DHCP
Static
IP Address 172.21.1.3
Subnet Mask 255.255.0.0
Default Gateway 0.0.0.0
DNS Server 0.0.0.0
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address FE80::260:2FFF:FE62:1E8D
IPv6 Gateway
IPv6 DNS Server
Top
Pisces
Physical Config Desktop Programming Attributes
IP Configuration
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
DHCP
Auto Config
Static
IPv6 Address
Link Local Address FE80::202:4AFF:FEA9:33A4
IPv6 Gateway
IPv6 DNS Server
Top
Time: 01:02:24
Power Cycle Devices
Fast Forward Time
Realtime
Automatically Choose Connection Type


Cisco Packet Tracer
File Edit Options View Tools Extensions Help
Logical
Back
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
Environment: 07:35:00
Taurus
Physical Config Desktop Programming Attributes
IP Configuration
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
DHCP
Auto Config
Static
IPv6 Address
Link Local Address FE80::201:43FF:FE23:C637
IPv6 Gateway
IPv6 DNS Server
Top
Scorpio
Physical Config Desktop Programming Attributes
IP Configuration
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
DHCP
Auto Config
Static
IPv6 Address
Link Local Address FE80::260:3EFF:FE5E:2939
IPv6 Gateway
IPv6 DNS Server
Top
Time: 01:03:00
Power Cycle Devices
Fast Forward Time
Realtime
Automatically Choose Connection Type

Konfigurasi pada switch dan konfigurasi port-port switch



Melihat Konfigurasi VLAN yang telah dibuat



Tugas 6a

No	Variabel	Nilai
1.	Nomor Vlan	10
2.	Nama Vlan	Zodiak1
3.	Port	Fa0/1, Fa0/4
4.	Status	Active

No	Variabel	Nilai
1.	Nomor Vlan	20
2.	Nama Vlan	Zodiak2
3.	Port	Fa0/2, Fa0/5
4.	Status	Active

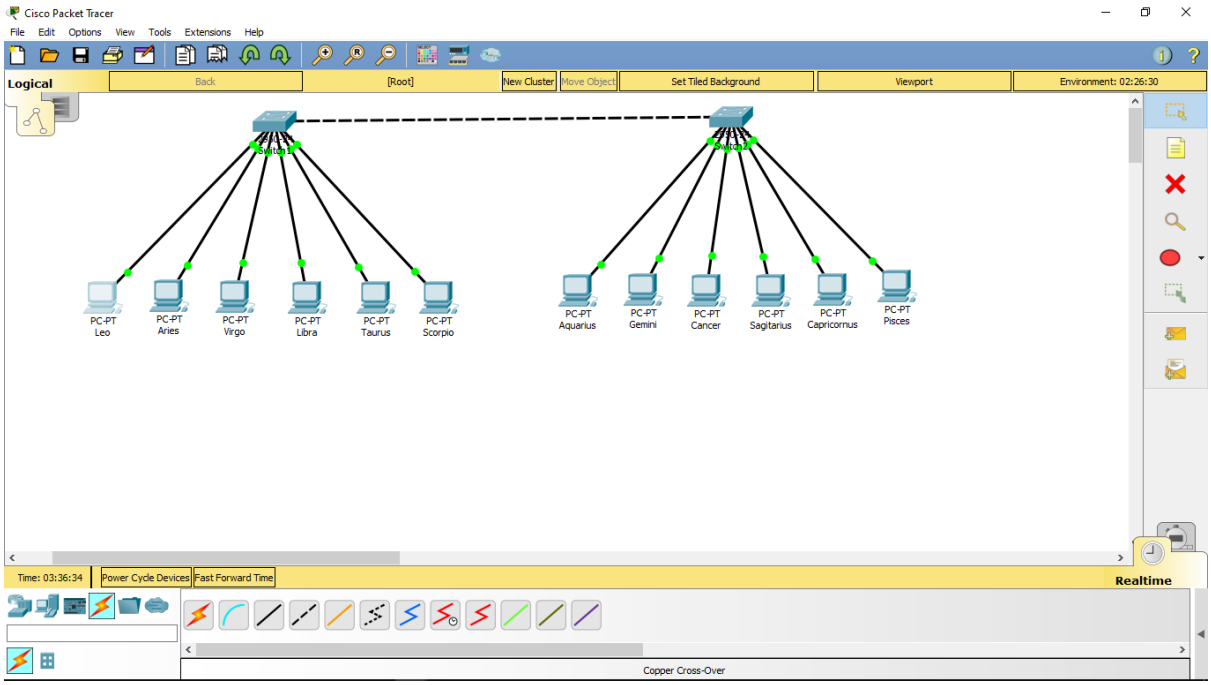
No	Variabel	Nilai
1.	Nomor Vlan	30
2.	Nama Vlan	Zodiak3
3.	Port	Fa0/3, Fa0/6
4.	Status	Active

Tugas 6b

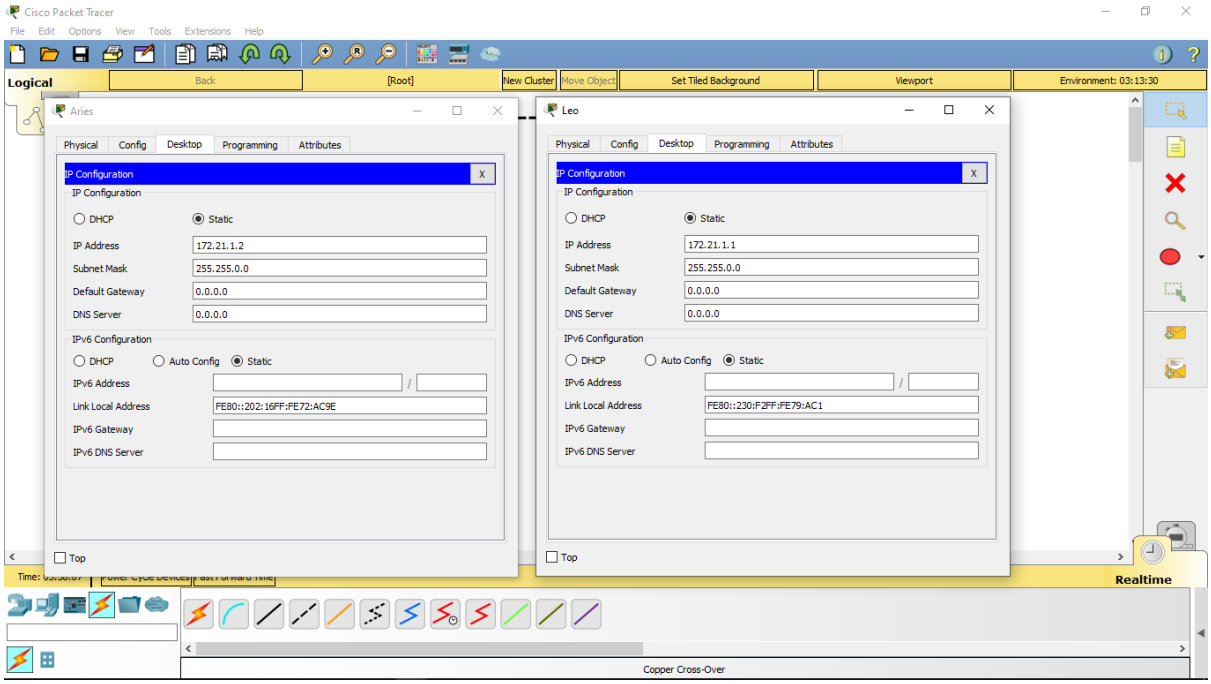
Hasil dari 6A yaitu configuration yang kita lakukan telah menjadikan 3 id vlan yang terdiri dari zodiak1(10), zodiak2(20), zodiak3(30) dan masing-masing id vlan diisi dengan 2 port (PC) dan semua vlan statusnya telah aktif.

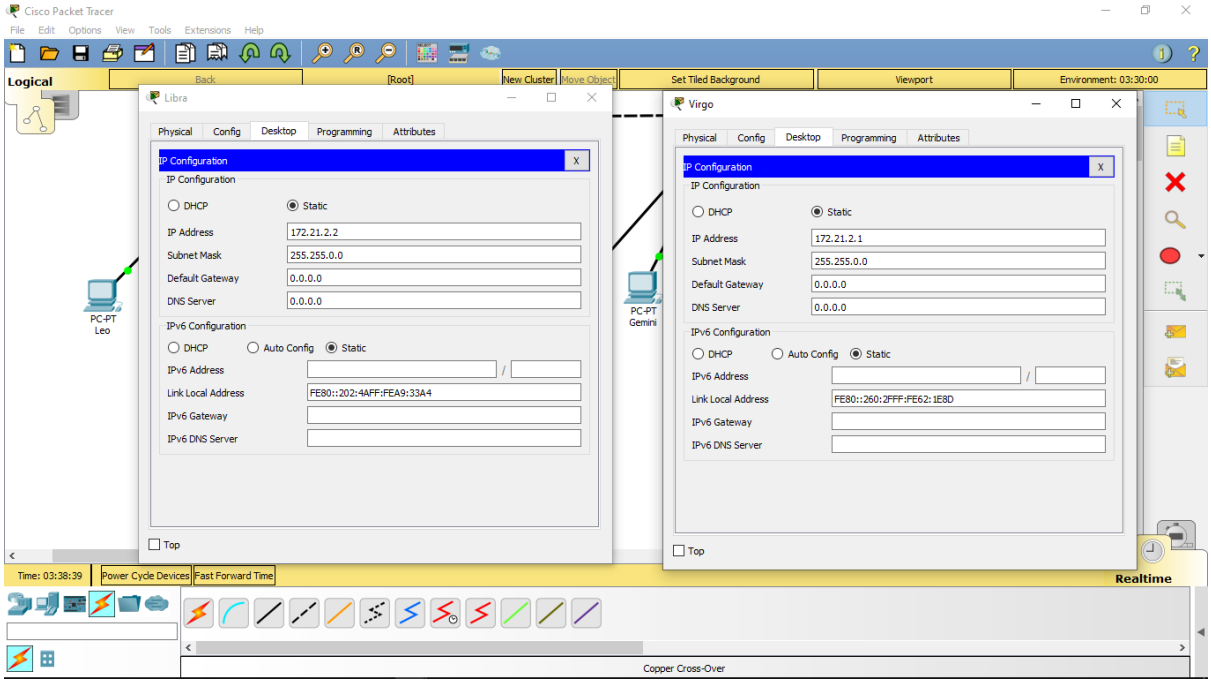
Kegiatan 2

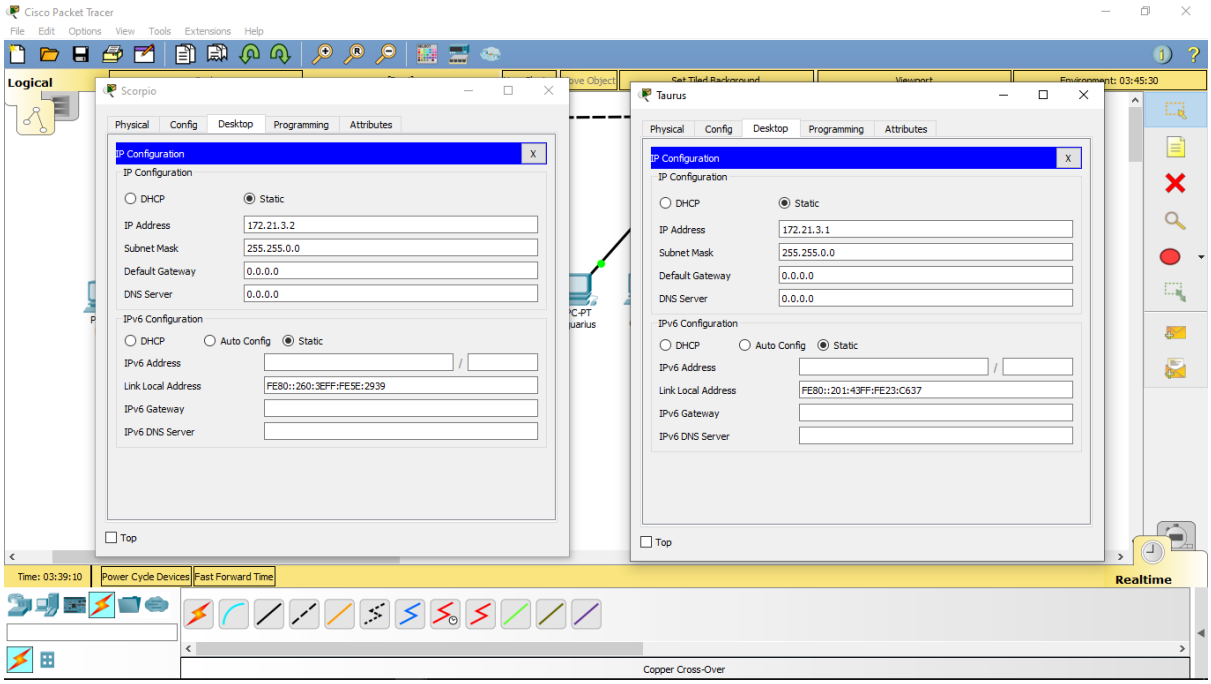
Membuat Topologi

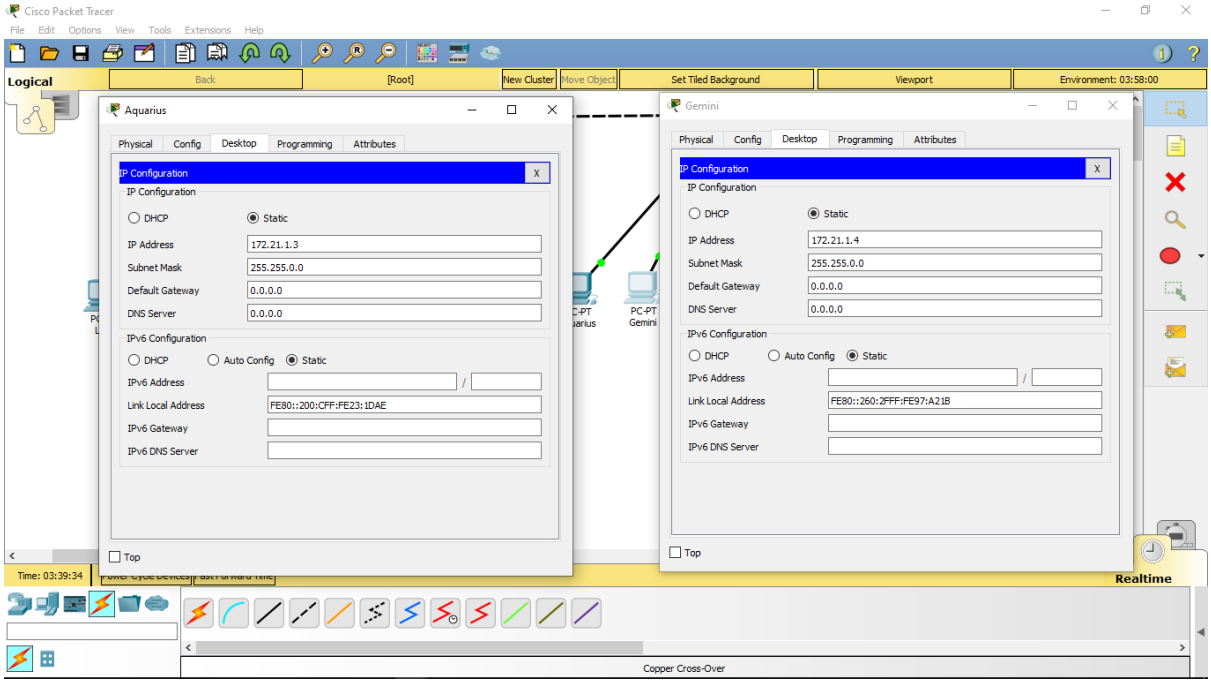


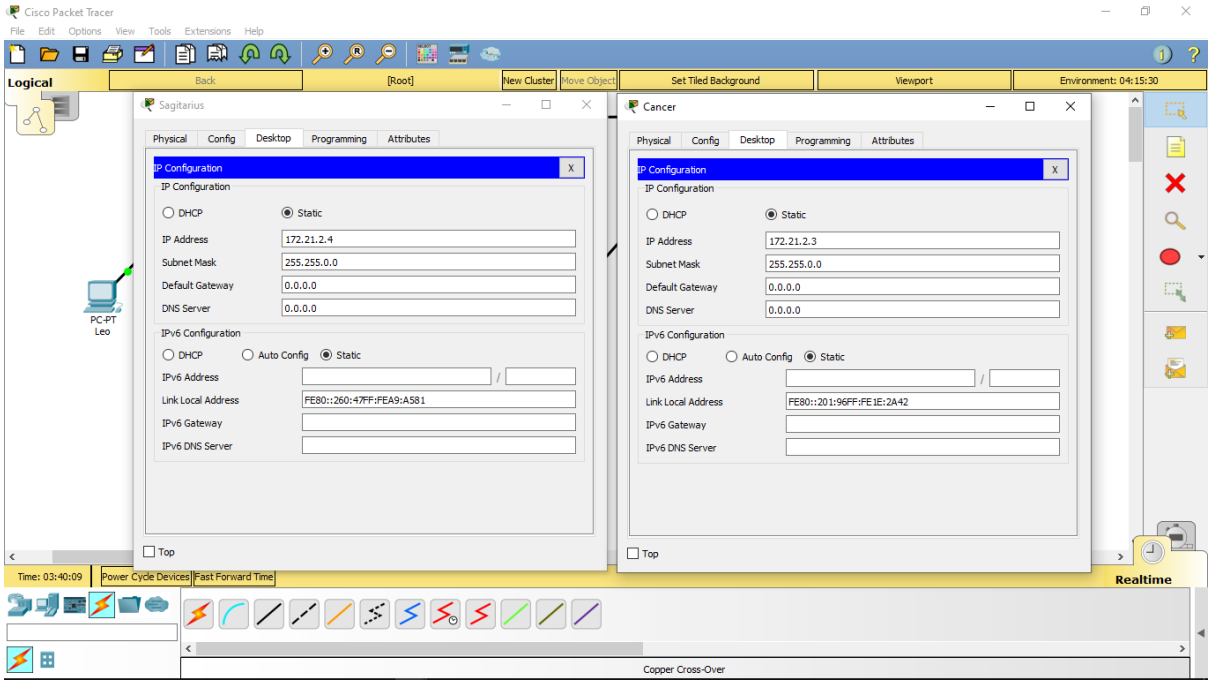
Konfigurasi Masing Masing PC

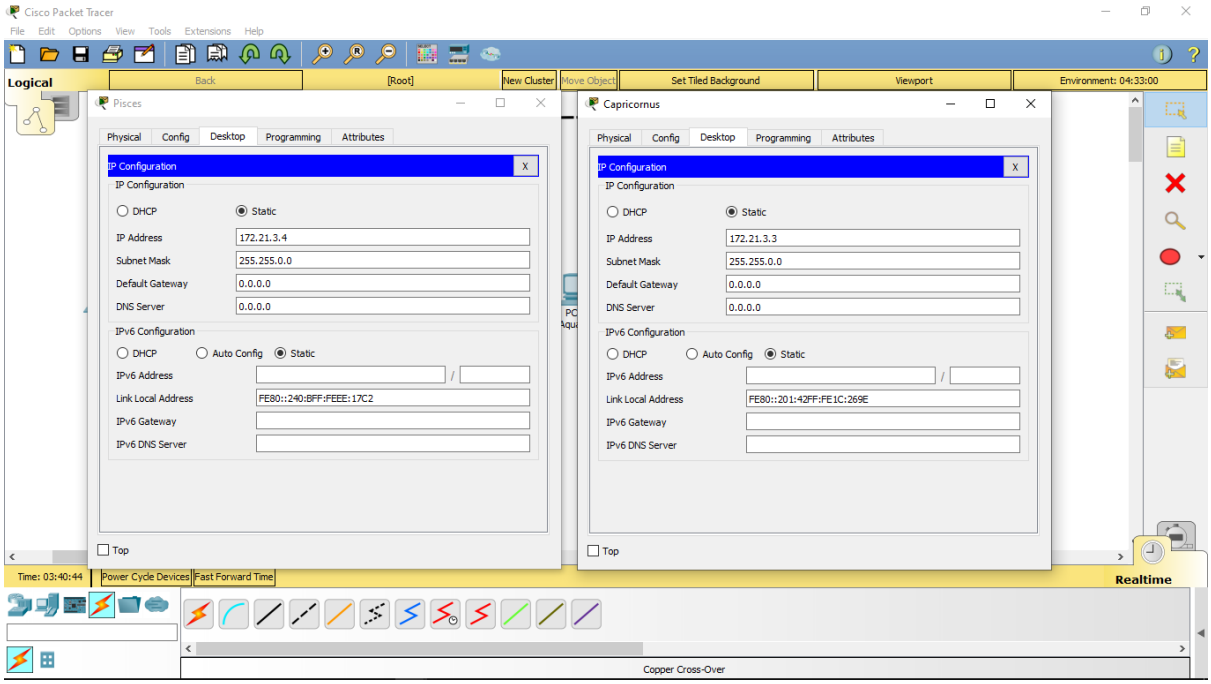

Cisco Packet Tracer
File Edit Options View Tools Extensions Help
Logical
Back
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
Environment: 03:13:30
Aries
Physical Config Desktop Programming Attributes
IP Configuration
IP Configuration
DHCP
Static
IP Address 172.21.1.2
Subnet Mask 255.255.0.0
Default Gateway 0.0.0.0
DNS Server 0.0.0.0
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address FE80::202:16FF:FE72:AC9E
IPv6 Gateway
IPv6 DNS Server
Top
Leo
Physical Config Desktop Programming Attributes
IP Configuration
IP Configuration
DHCP
Static
IP Address 172.21.1.1
Subnet Mask 255.255.0.0
Default Gateway 0.0.0.0
DNS Server 0.0.0.0
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address FE80::230:F2FF:FE79:AC1
IPv6 Gateway
IPv6 DNS Server
Top
Realtime
Copper Cross-Over


Cisco Packet Tracer
File Edit Options View Tools Extensions Help
Logical
Back
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
Environment: 03:30:00
Libra
Physical Config Desktop Programming Attributes
IP Configuration
IP Configuration
DHCP
Static
IP Address 172.21.2.2
Subnet Mask 255.255.0.0
Default Gateway 0.0.0.0
DNS Server 0.0.0.0
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address FE80::202:4AFF:FEA9:33A4
IPv6 Gateway
IPv6 DNS Server
Top
PC-PT Leo
Virgo
Physical Config Desktop Programming Attributes
IP Configuration
IP Configuration
DHCP
Static
IP Address 172.21.2.1
Subnet Mask 255.255.0.0
Default Gateway 0.0.0.0
DNS Server 0.0.0.0
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address FE80::260:2FFF:FE62:1E8D
IPv6 Gateway
IPv6 DNS Server
Top
PC-PT Gemini
Time: 03:38:39
Power Cycle Devices
Fast Forward Time
Realtime
Copper Cross-Over

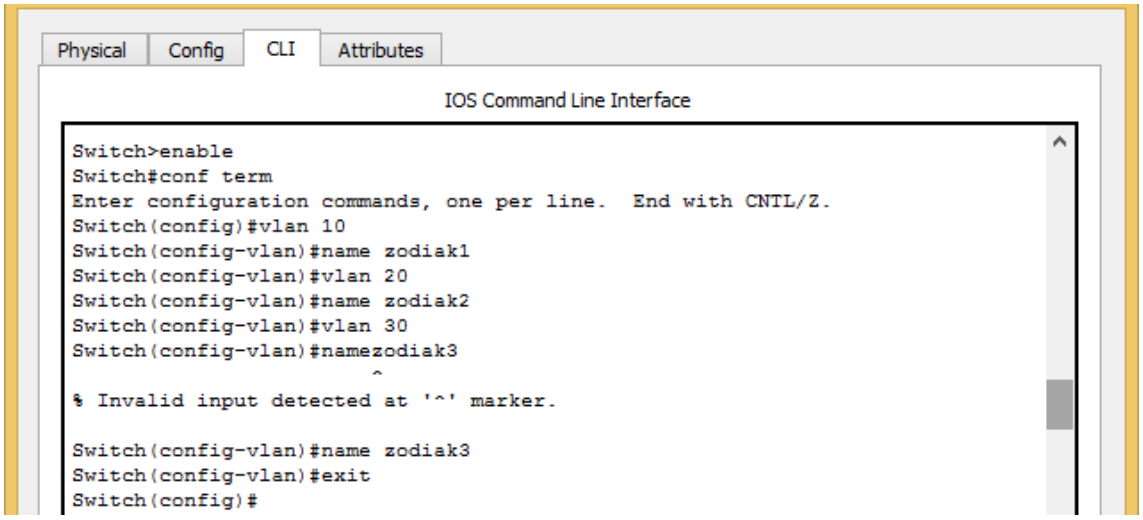

Cisco Packet Tracer
File Edit Options View Tools Extensions Help
Logical
Scorpio
Physical Config Desktop Programming Attributes
IP Configuration
IP Configuration
DHCP Static
IP Address 172.21.3.2
Subnet Mask 255.255.0.0
Default Gateway 0.0.0.0
DNS Server 0.0.0.0
IPv6 Configuration
DHCP Auto Config Static
IPv6 Address
Link Local Address FE80::260:3EFF:FE5E:2939
IPv6 Gateway
IPv6 DNS Server
Top
Taurus
Physical Config Desktop Programming Attributes
IP Configuration
IP Configuration
DHCP Static
IP Address 172.21.3.1
Subnet Mask 255.255.0.0
Default Gateway 0.0.0.0
DNS Server 0.0.0.0
IPv6 Configuration
DHCP Auto Config Static
IPv6 Address
Link Local Address FE80::201:43FF:FE23:C637
IPv6 Gateway
IPv6 DNS Server
Top
Time: 03:39:10
Power Cycle Devices
Fast Forward Time
Realtime
Copper Cross-Over


Cisco Packet Tracer
File Edit Options View Tools Extensions Help
Logical
Back
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
Environment: 03:58:00
Aquarius
Physical Config Desktop Programming Attributes
IP Configuration
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
DHCP Auto Config Static
IPv6 Address
Link Local Address FE80::200:CFF:FE23:1DAE
IPv6 Gateway
IPv6 DNS Server
Top
Gemini
Physical Config Desktop Programming Attributes
IP Configuration
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
DHCP Auto Config Static
IPv6 Address
Link Local Address FE80::260:2FFF:FE97:A21B
IPv6 Gateway
IPv6 DNS Server
Top
PC-PT Gemini
Time: 03:39:34
Realtime
Copper Cross-Over

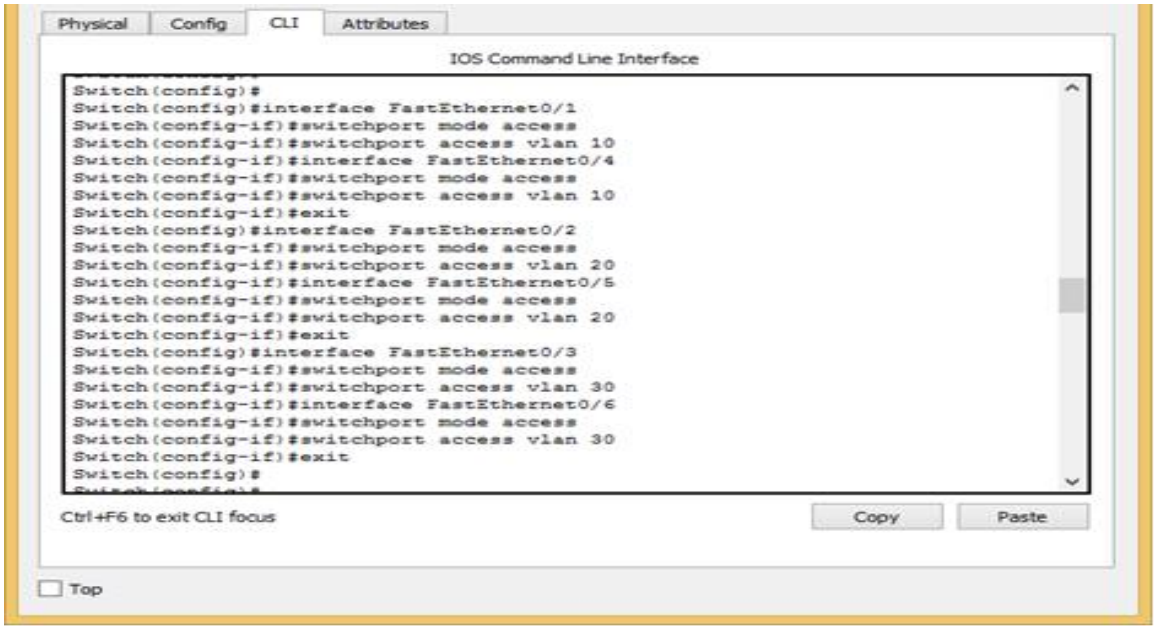

Cisco Packet Tracer
File Edit Options View Tools Extensions Help
Logical
Back
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
Environment: 04:15:30
Sagitarius
Physical Config Desktop Programming Attributes
IP Configuration
IP Configuration
DHCP
Static
IP Address 172.21.2.4
Subnet Mask 255.255.0.0
Default Gateway 0.0.0.0
DNS Server 0.0.0.0
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address FE80::260:47FF:FEA9:A581
IPv6 Gateway
IPv6 DNS Server
Top
PC-PT Leo
Cancer
Physical Config Desktop Programming Attributes
IP Configuration
IP Configuration
DHCP
Static
IP Address 172.21.2.3
Subnet Mask 255.255.0.0
Default Gateway 0.0.0.0
DNS Server 0.0.0.0
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address FE80::201:96FF:FE1E:2A42
IPv6 Gateway
IPv6 DNS Server
Top
Time: 03:40:09
Power Cycle Devices
Fast Forward Time
Realtime
Copper Cross-Over


Cisco Packet Tracer
File Edit Options View Tools Extensions Help
Logical
Back
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
Environment: 04:33:00
Pisces
Physical Config Desktop Programming Attributes
IP Configuration
IP Configuration
DHCP
Static
IP Address 172.21.3.4
Subnet Mask 255.255.0.0
Default Gateway 0.0.0.0
DNS Server 0.0.0.0
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address FE80::240:BFF:FEEE:17C2
IPv6 Gateway
IPv6 DNS Server
Top
Capricornus
Physical Config Desktop Programming Attributes
IP Configuration
IP Configuration
DHCP
Static
IP Address 172.21.3.3
Subnet Mask 255.255.0.0
Default Gateway 0.0.0.0
DNS Server 0.0.0.0
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address FE80::201:42FF:FE1C:269E
IPv6 Gateway
IPv6 DNS Server
Top
Time: 03:40:44
Power Cycle Devices
Fast Forward Time
Realtime
Copper Cross-Over

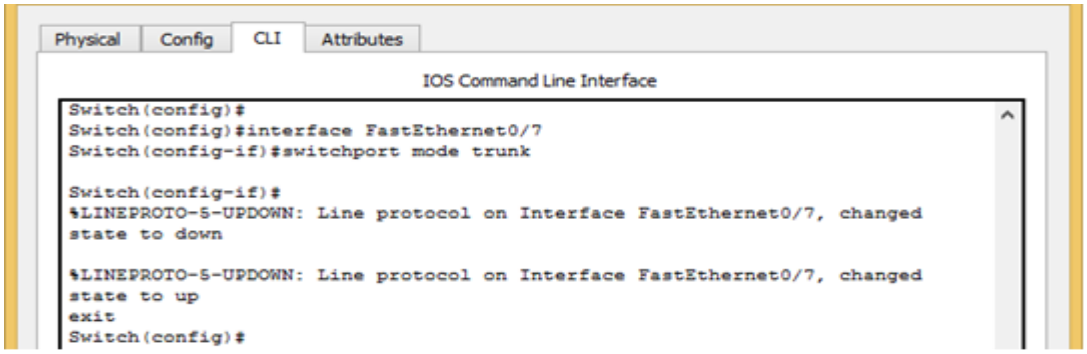
Configurasi pada switch untuk membuat 3 Vlan dengan nama zodiak1, zodiak2, zodiak3



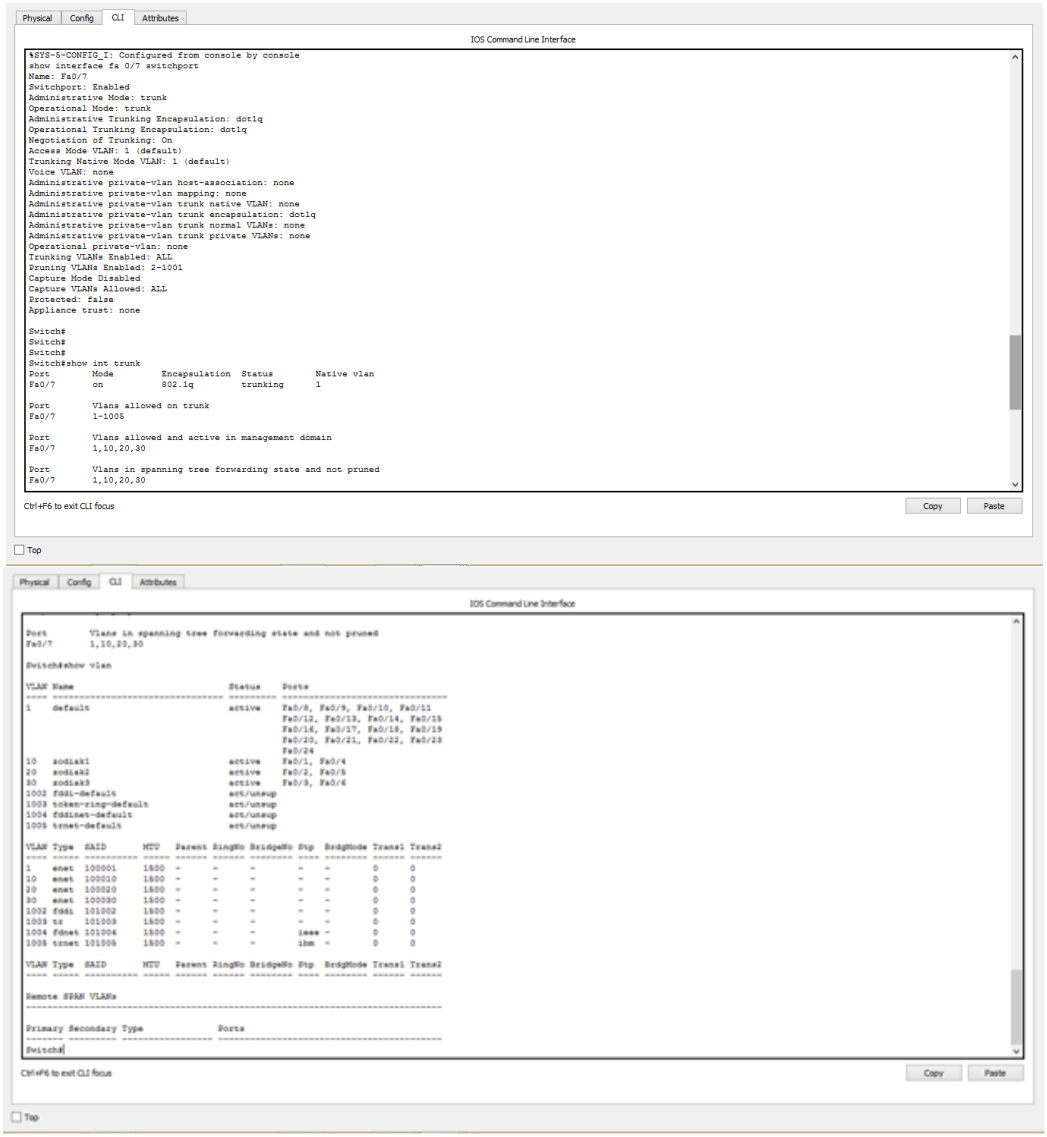
Melakukan konfigurasi port-port switch ke dalam Vlan zodiak1, zodiak2, dan zodiak3 pada switch1



Konfigurasi Vlan trunking pada switch 1

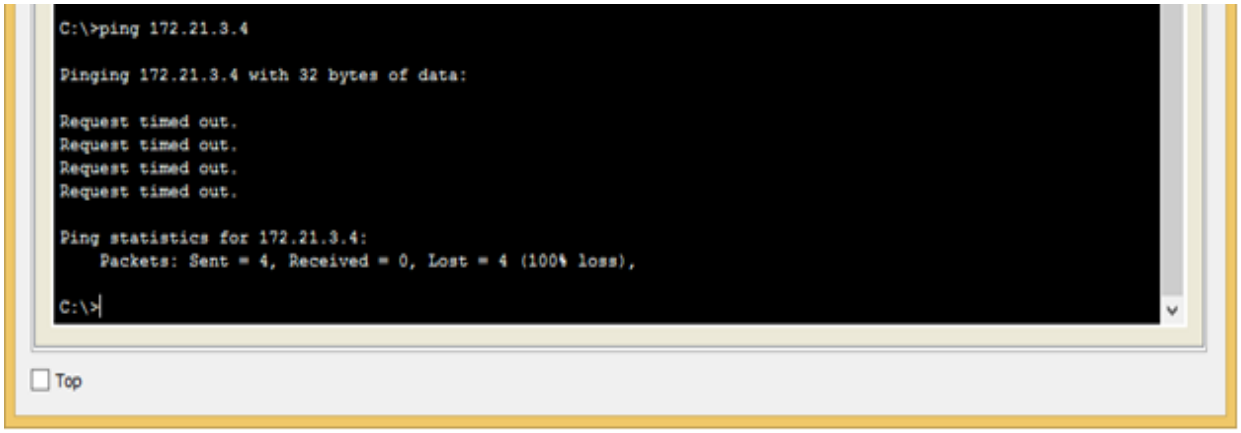


Melihat konfigurasi trunking pada switch 1

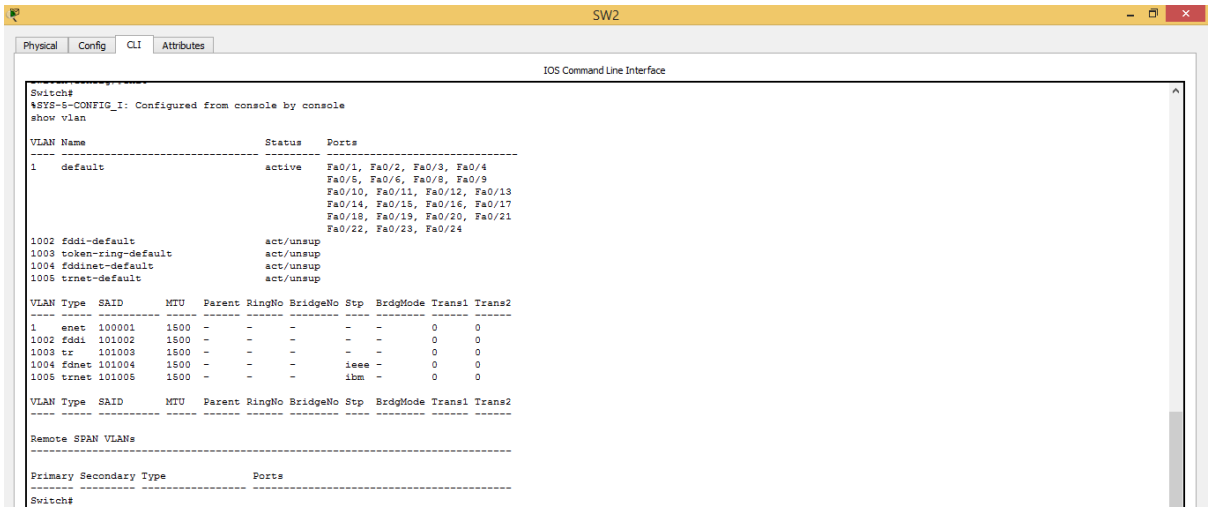


Tugas 7a

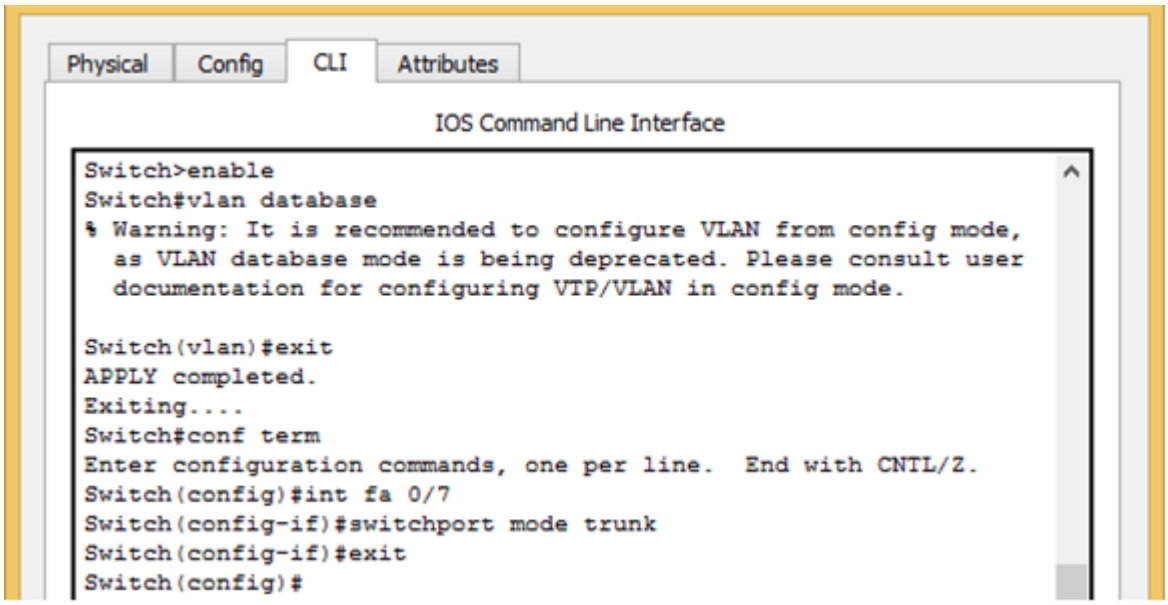
Mengaktifkan switch port Fa0/1(port yang digunakan untuk trunk), Administrative mode menjadi trunk dan juga Operational Mode trunk.



Tugas 8a

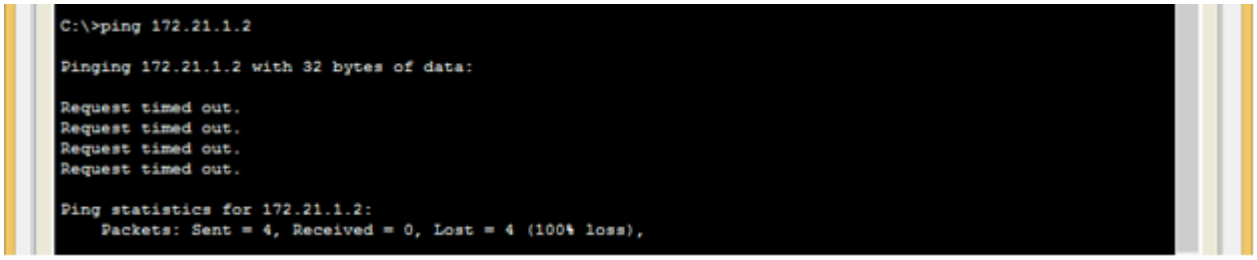


Konfigurasikan pada switch 2

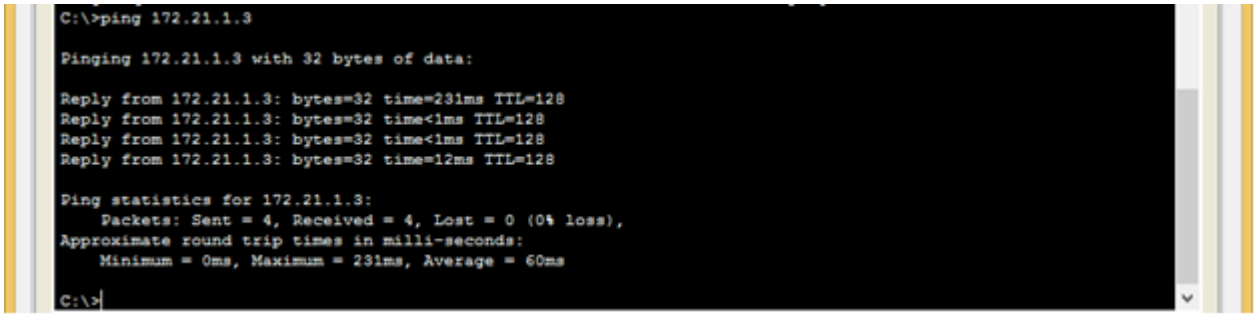


Tugas 10a

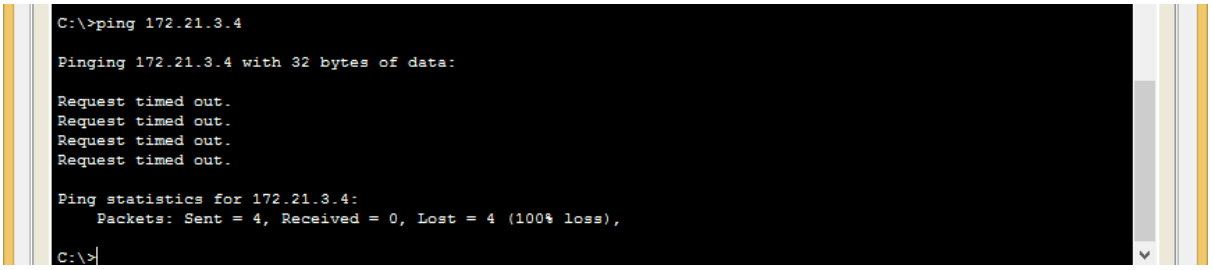
Leo ke Aries



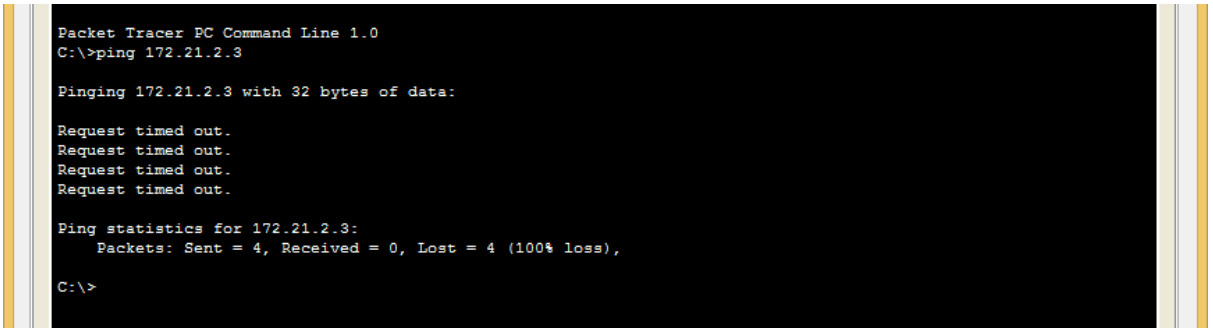
Leo ke Aquarius



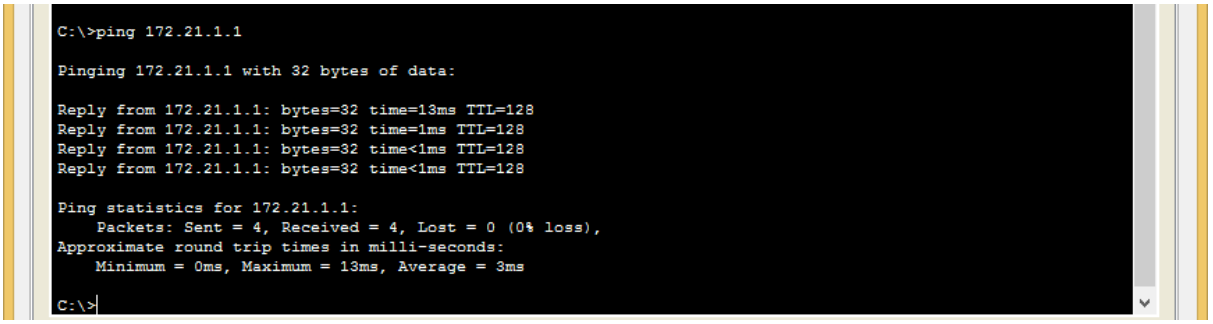
Leo ke Pisces



Libra ke cancer



Libra ke Leo



Tugas 12a

Dari beberapa hasil percobaan diatas, dapat disimpulkan apabila pc berada pada vlan sama, maka akan menghasilkan balasan atau reply dari IP tujuan pada saat melakukan pengujian Ping, seperti contohnya pc Leo ke Pc Aquarius dan Pc Libra ke Pc Leo.

Akan tetapi apabila berada pada vlan yang berbeda akan menghasilkan status RTO, seperti pada contoh pc Leo ke pc Aries, pc Leo ke Pc Psices, dan pc Libra ke Pc cancer.