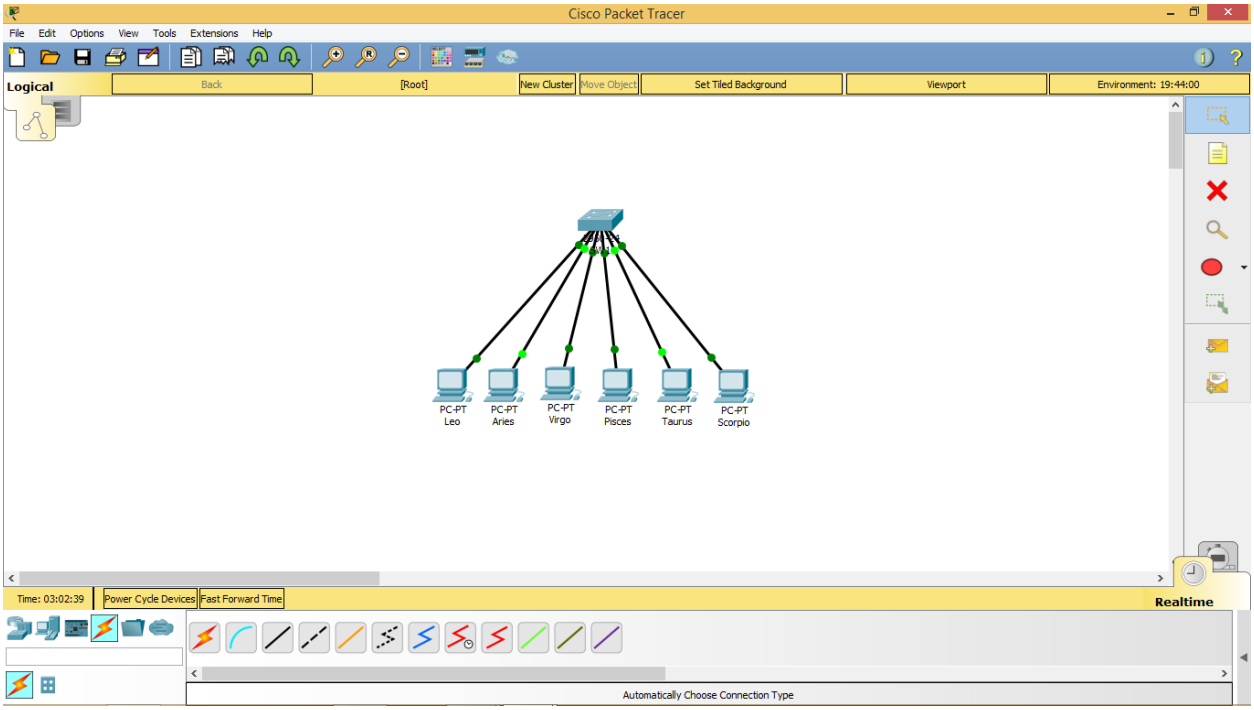
Nama : Anggit Astriani

NIM : L200180111

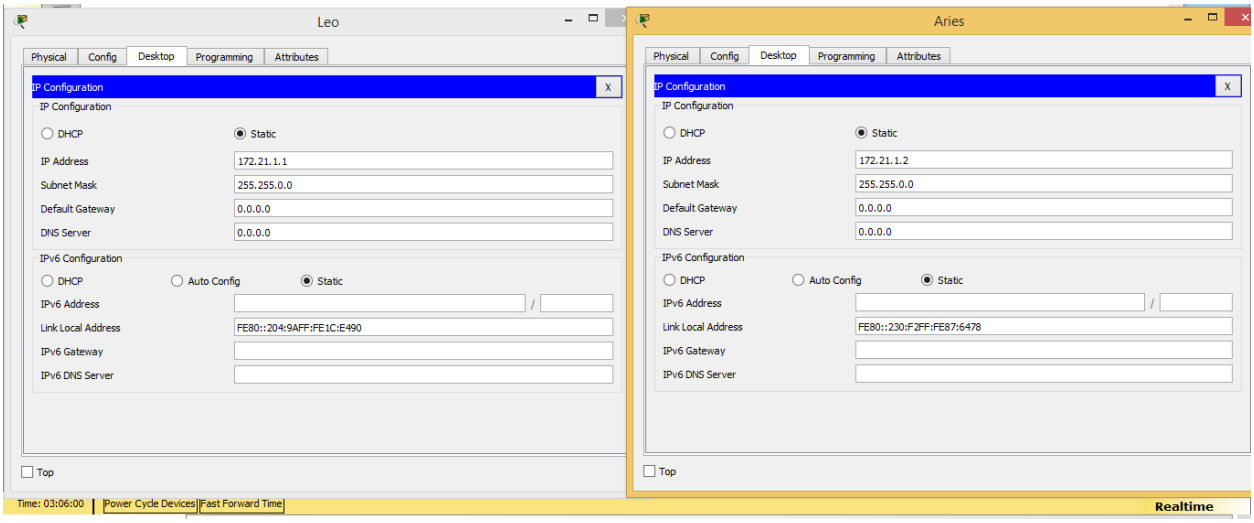
MODUL 4

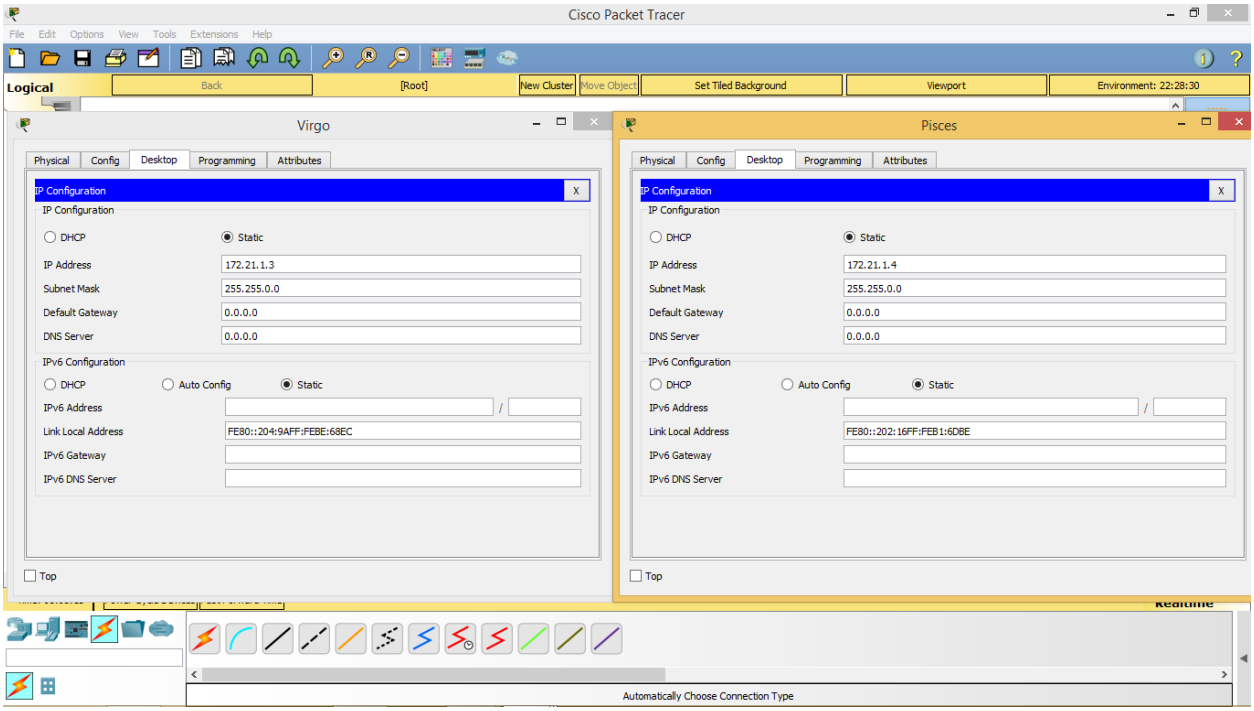
Kegiatan 1. Topologi 1

Membuat topologi



Konfigurasi masing-masing pc

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File Edit Options View Tools Extensions Help
Logical
Back
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
Environment: 22:28:30
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::204:9AFF:FEBE:68EC
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
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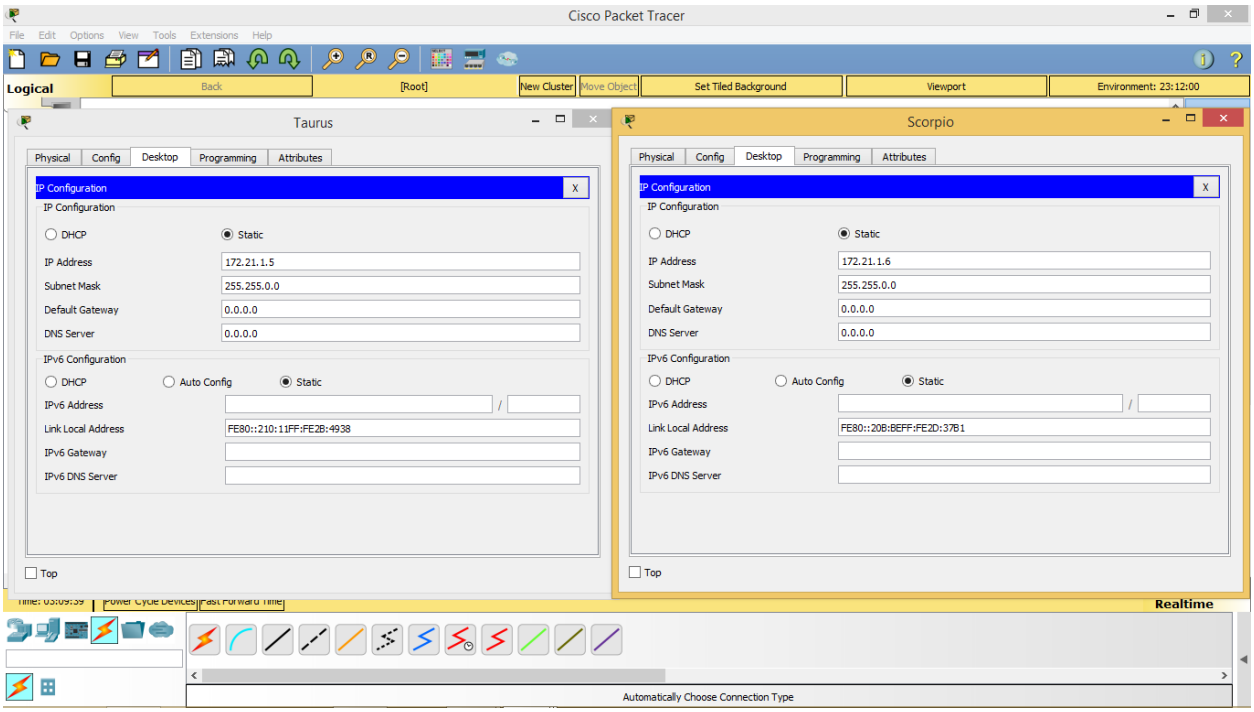
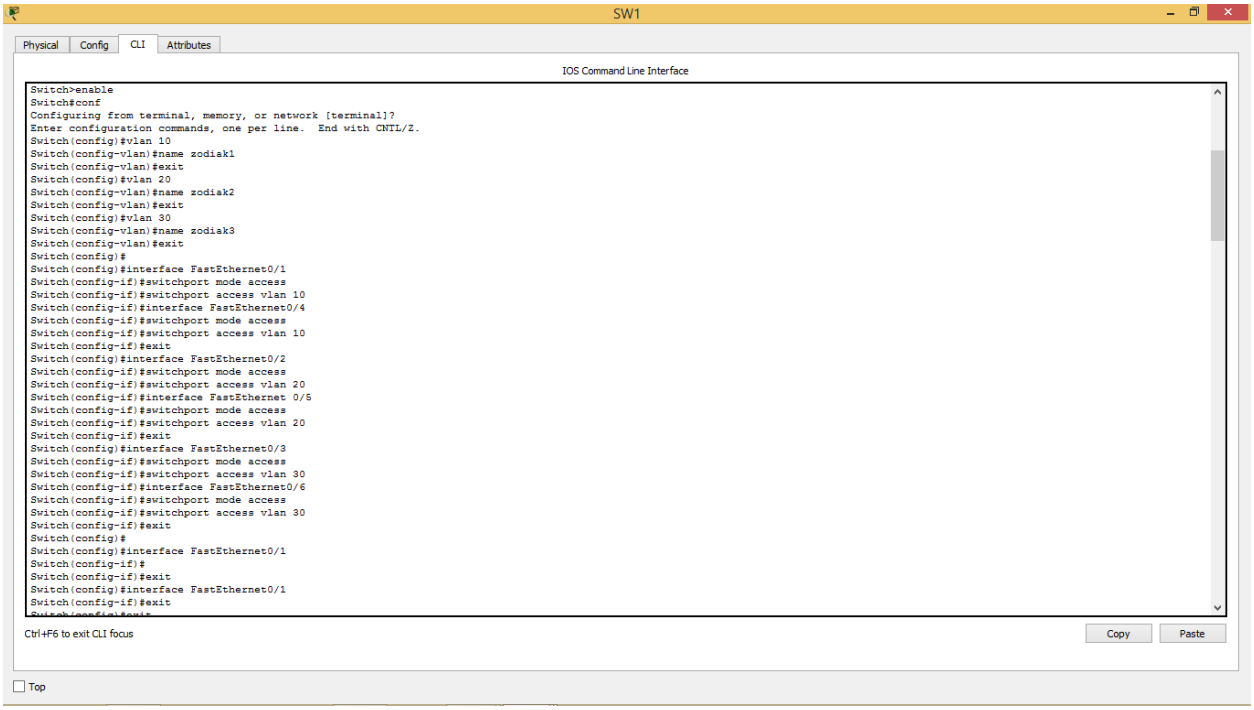
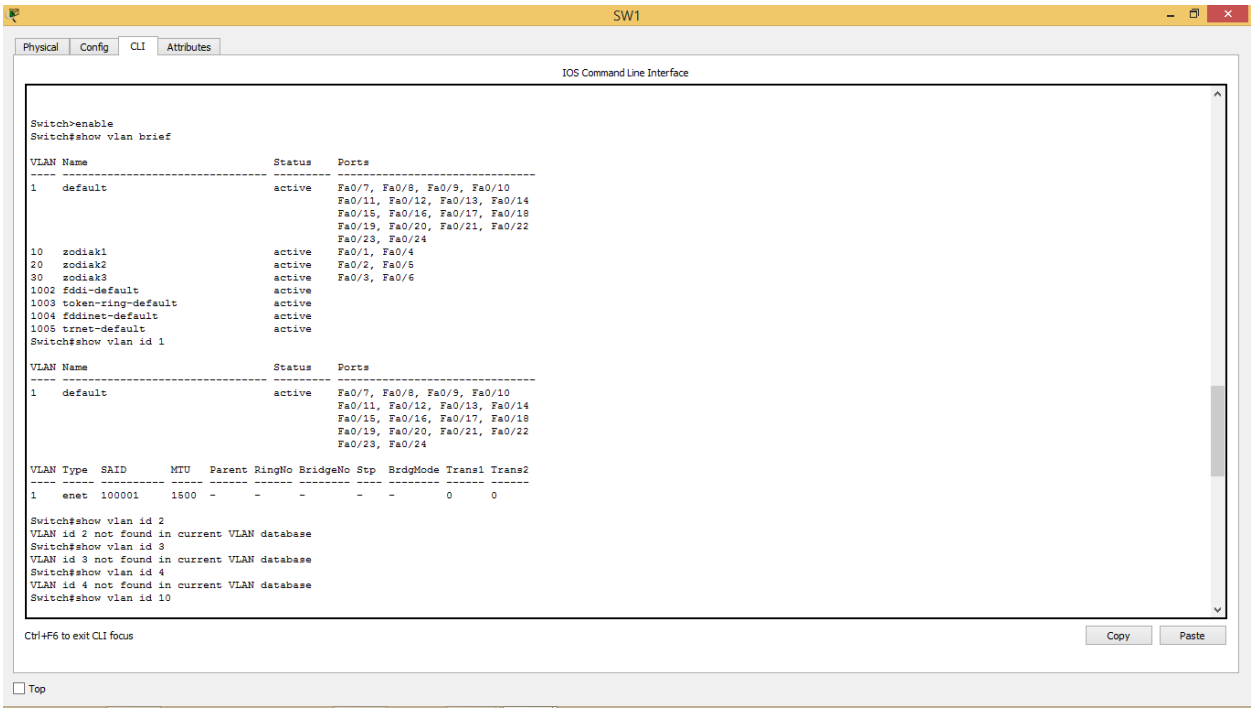
Link Local Address FE80::202:16FF:FEB1:6DBE
IPv6 Gateway
IPv6 DNS Server
Top
Realtime
Automatically Choose Connection Type

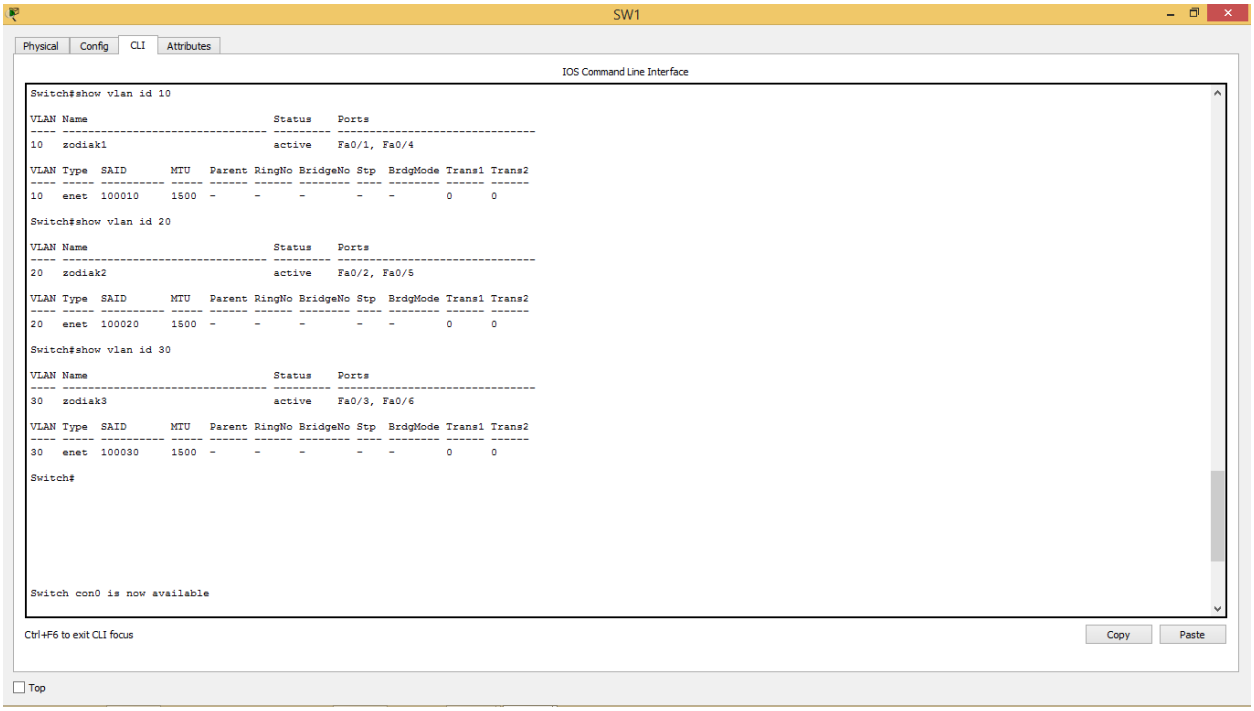

Cisco Packet Tracer
File Edit Options View Tools Extensions Help
Logical
Back
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
Environment: 23:12:00
Taurus
Physical Config Desktop Programming Attributes
IP Configuration
IP Configuration
DHCP
Static
IP Address 172.21.1.5
Subnet Mask 255.255.0.0
Default Gateway 0.0.0.0
DNS Server 0.0.0.0
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address FE80::210:11FF:FE2B:4938
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::20B:BEFF:FE2D:37B1
IPv6 Gateway
IPv6 DNS Server
Top
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

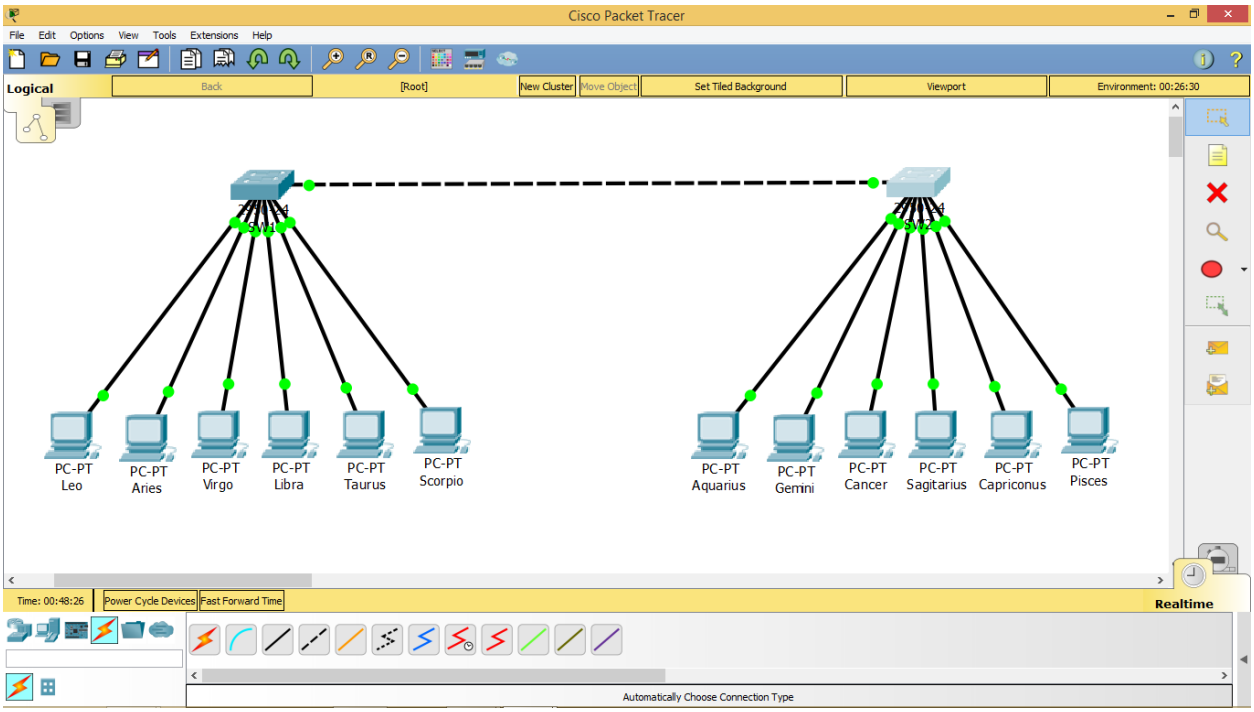
No	Variabel	Nilai
1.	Nomor VLAN	30
2.	Nama VLAN	zodiak3
3.	Port	Fa0/3, Fa0/6
4.	Status	active

Tugas 6B :

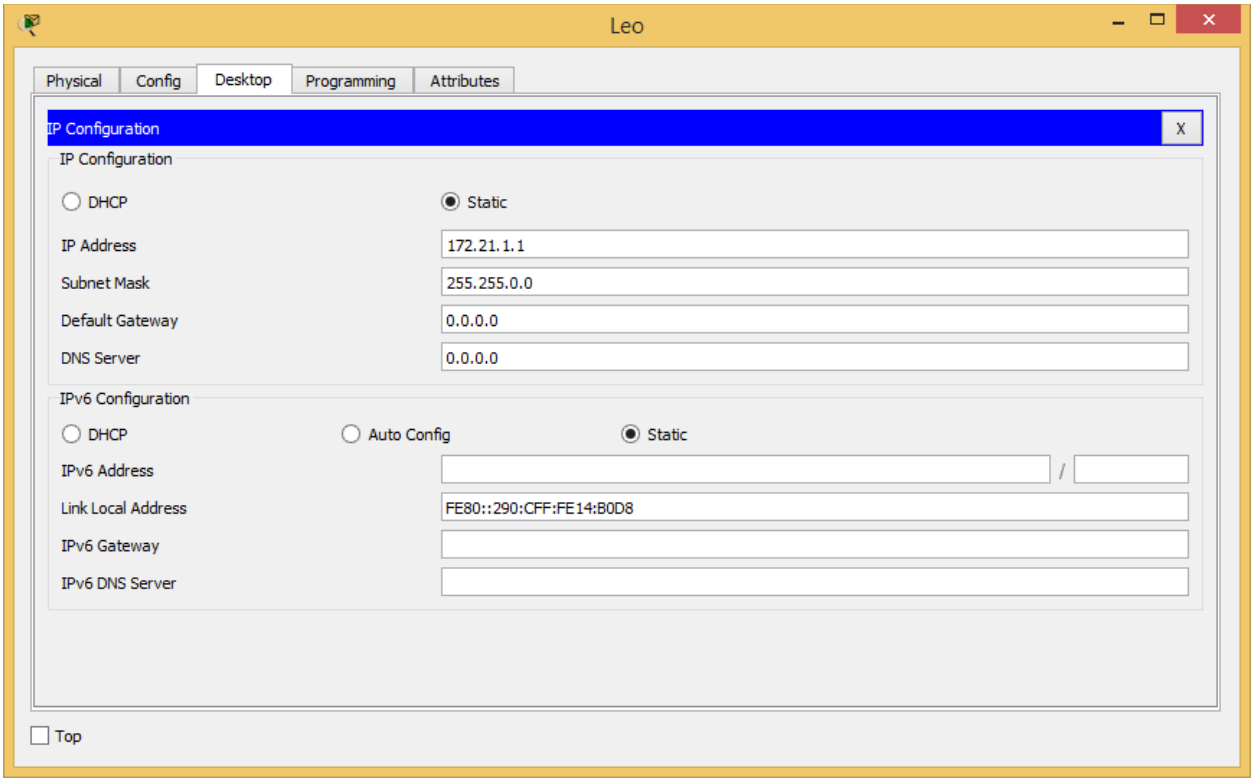
Hasil dari 6A yaitu configuration yang kita lakukan telah menjadikan 3 id vlan yang terdiri dari zodiak1(10), zodiak2(20), zodiak3(30) dan masing-masing id vlan diisi dengan 2 port (PC) dan semua vlan statusnya telah aktif.

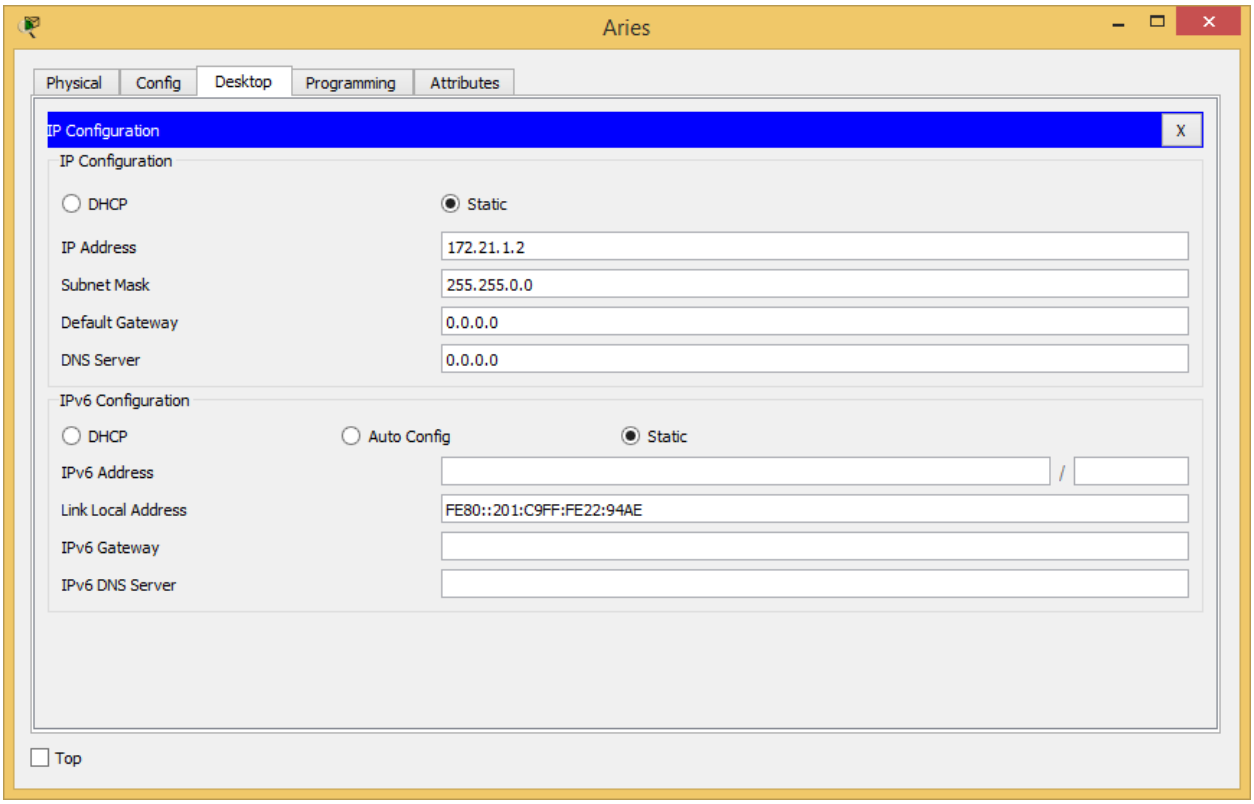
Kegiatan 2. Topologi 2

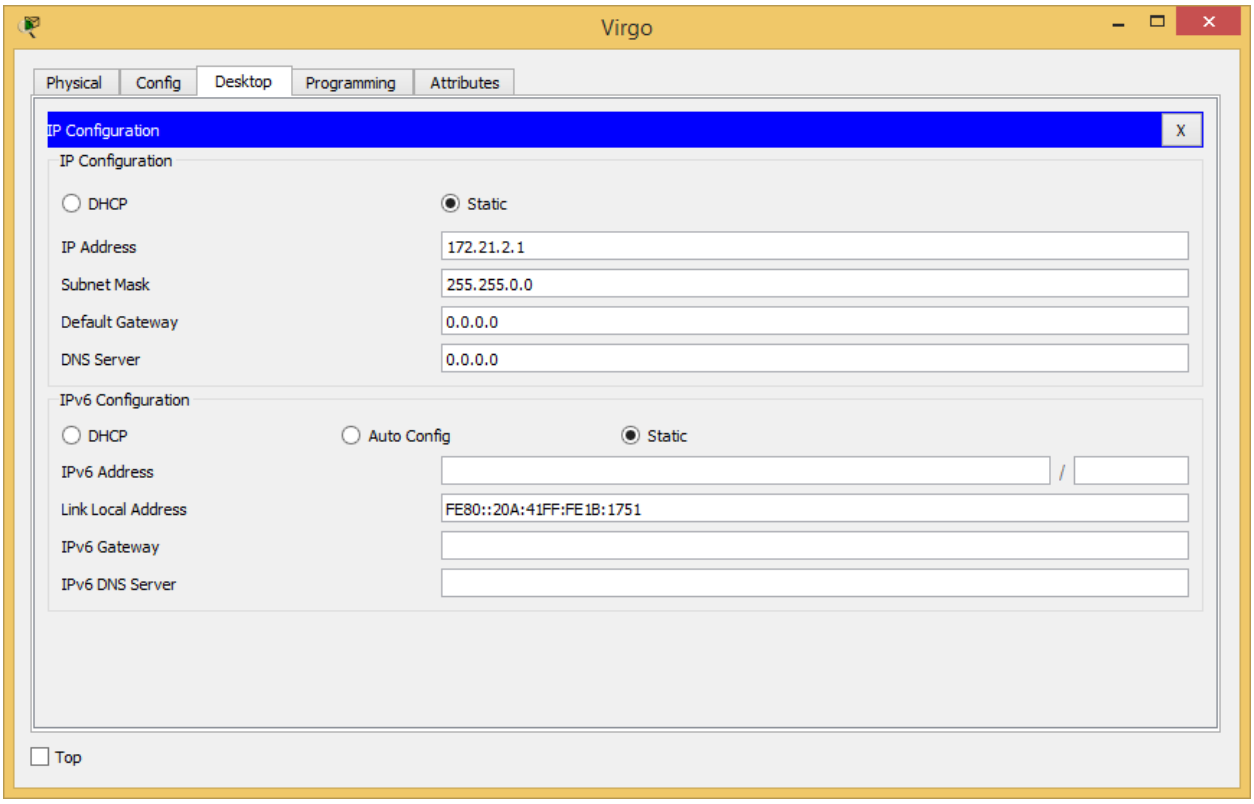
Membuat topologi dan memberi penamaan



Konfigurasi masing-masing pc (Memasukkan IP)






Virgo
Physical
Config
Desktop
Programming
Attributes
IP Configuration
X
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
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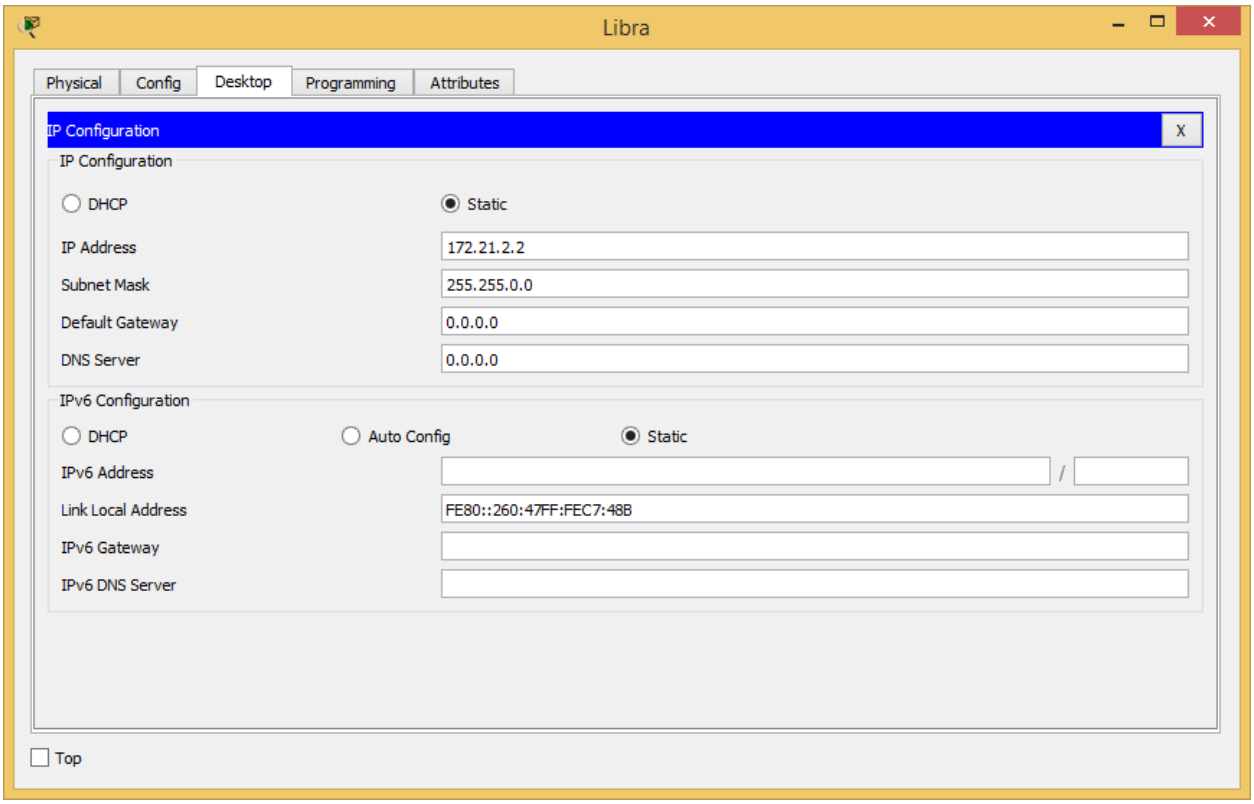
IPv6 Gateway
IPv6 DNS Server
Top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Programming
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Static
IP Address
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Subnet Mask
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Default Gateway
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DNS Server
0.0.0.0
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DHCP
Auto Config
Static
IPv6 Address
Link Local Address
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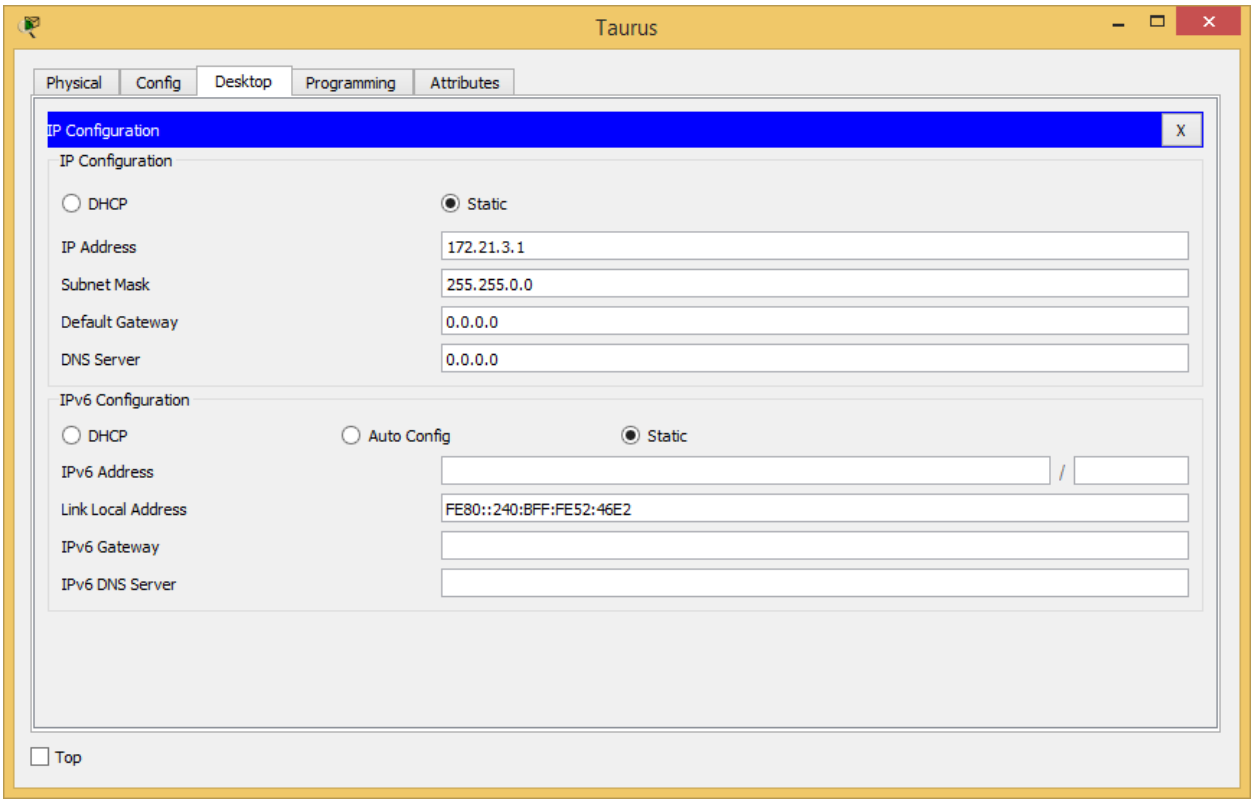
IPv6 Gateway
IPv6 DNS Server
Top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Programming
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IP Configuration
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DHCP
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Subnet Mask
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DNS Server
0.0.0.0
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Auto Config
Static
IPv6 Address
Link Local Address
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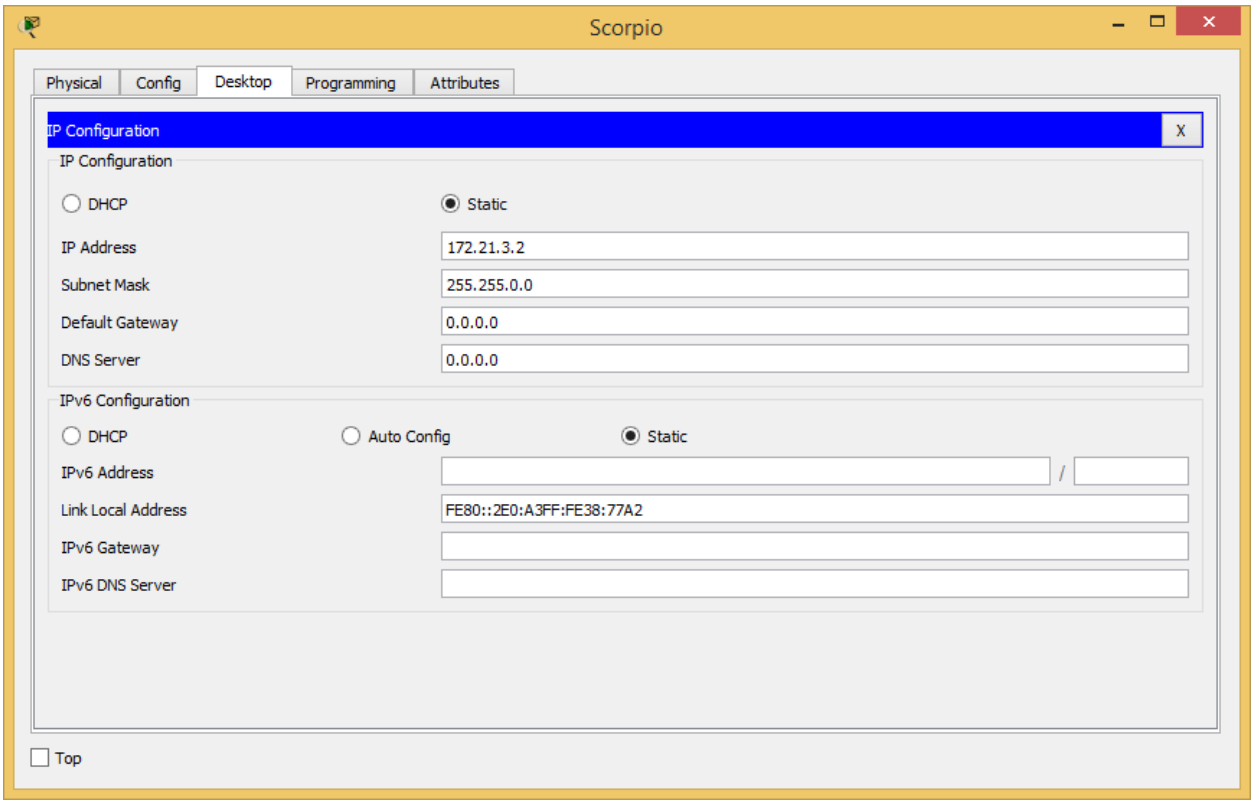
IPv6 Gateway
IPv6 DNS Server
Top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Programming
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DNS Server
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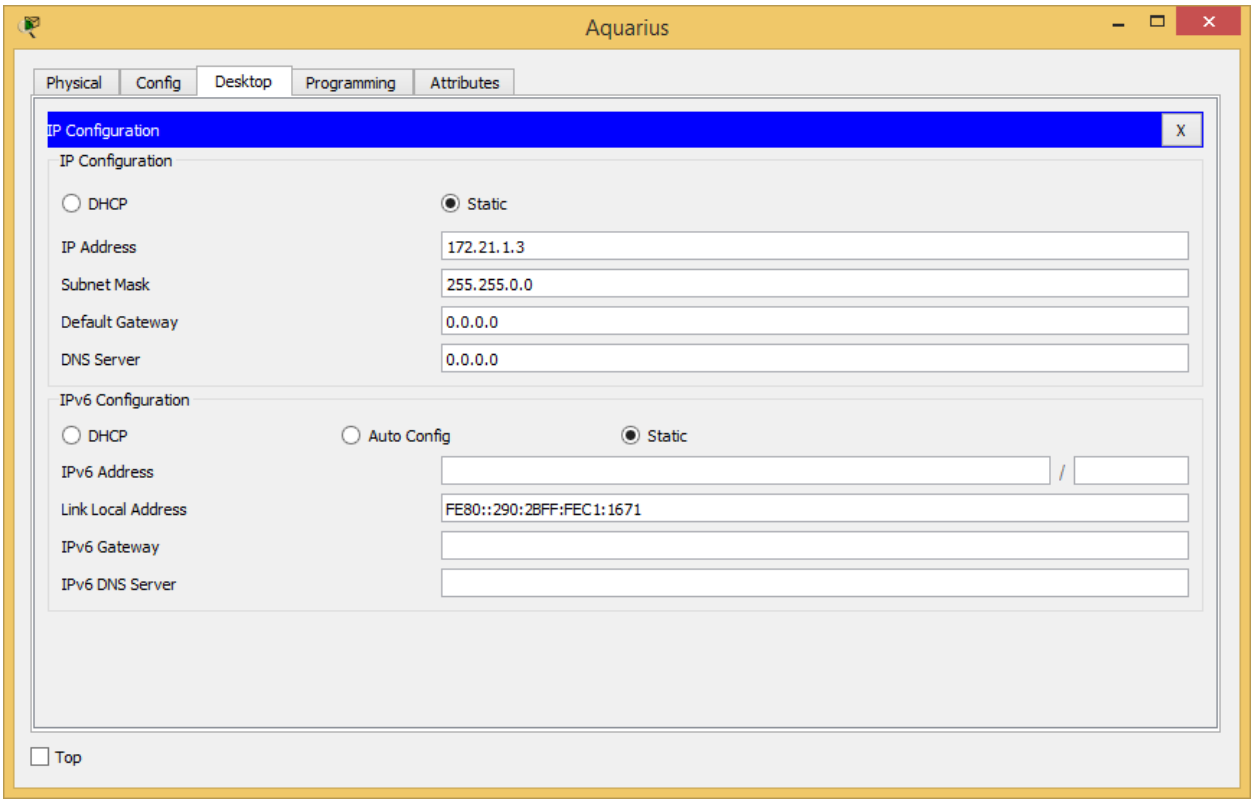
IPv6 Gateway
IPv6 DNS Server
Top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Desktop
Programming
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IP Configuration
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DNS Server
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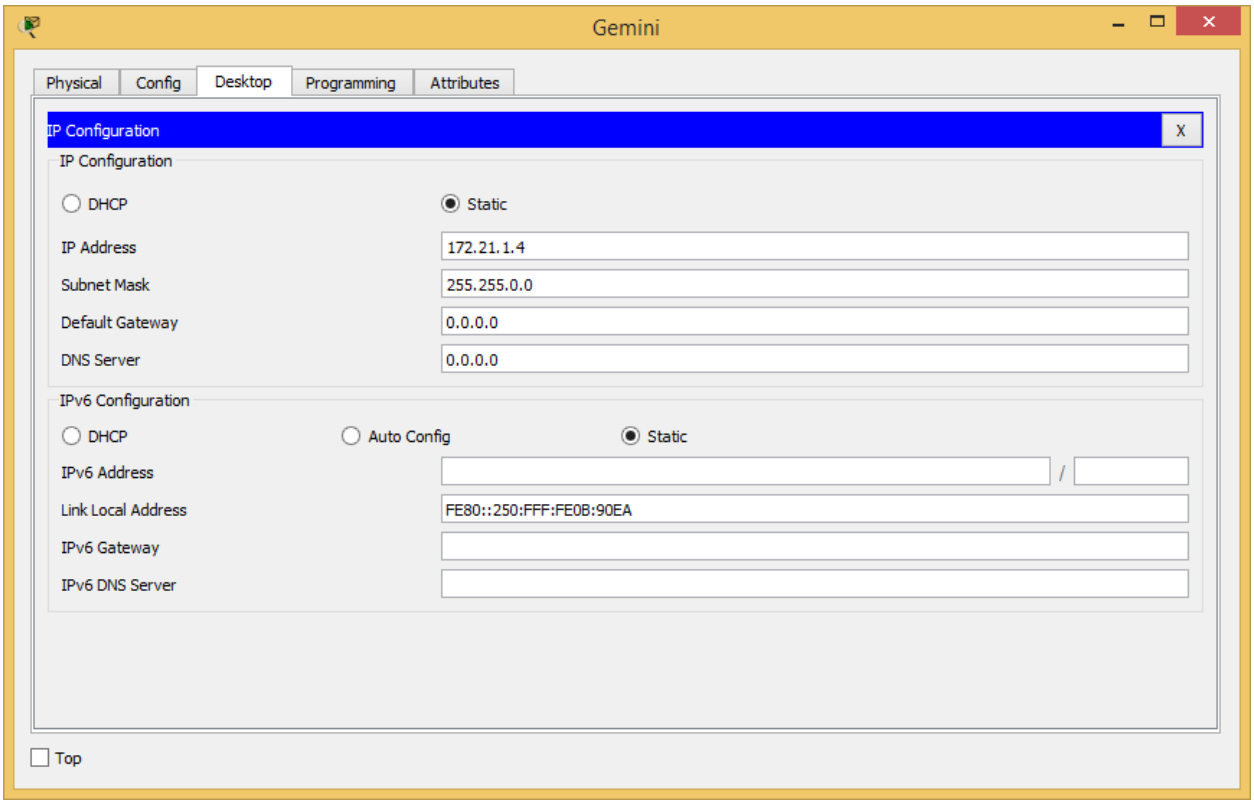
IPv6 DNS Server
Top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Desktop
Programming
Attributes
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IP Configuration
DHCP
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Default Gateway
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DNS Server
0.0.0.0
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Auto Config
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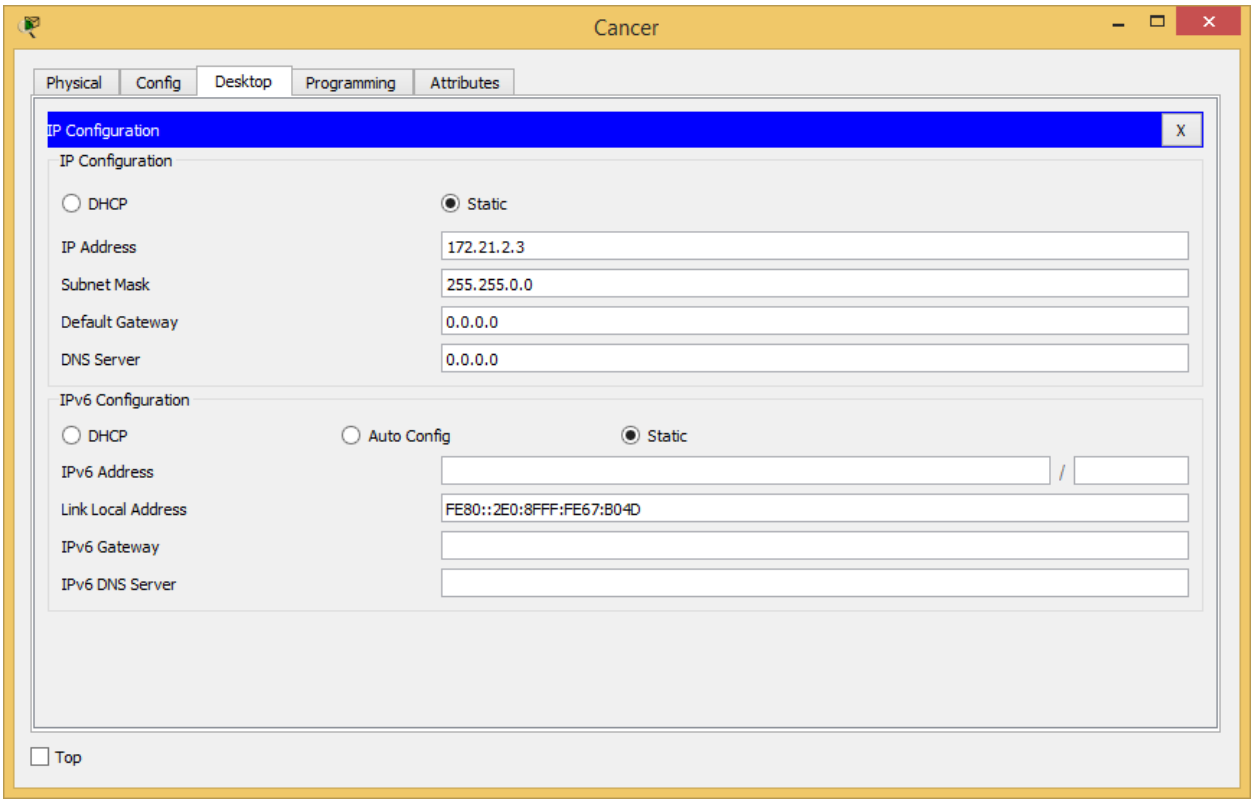
Link Local Address
FE80::250:FFF:FE0B:90EA
IPv6 Gateway
IPv6 DNS Server
Top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DHCP
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Subnet Mask
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Default Gateway
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DNS Server
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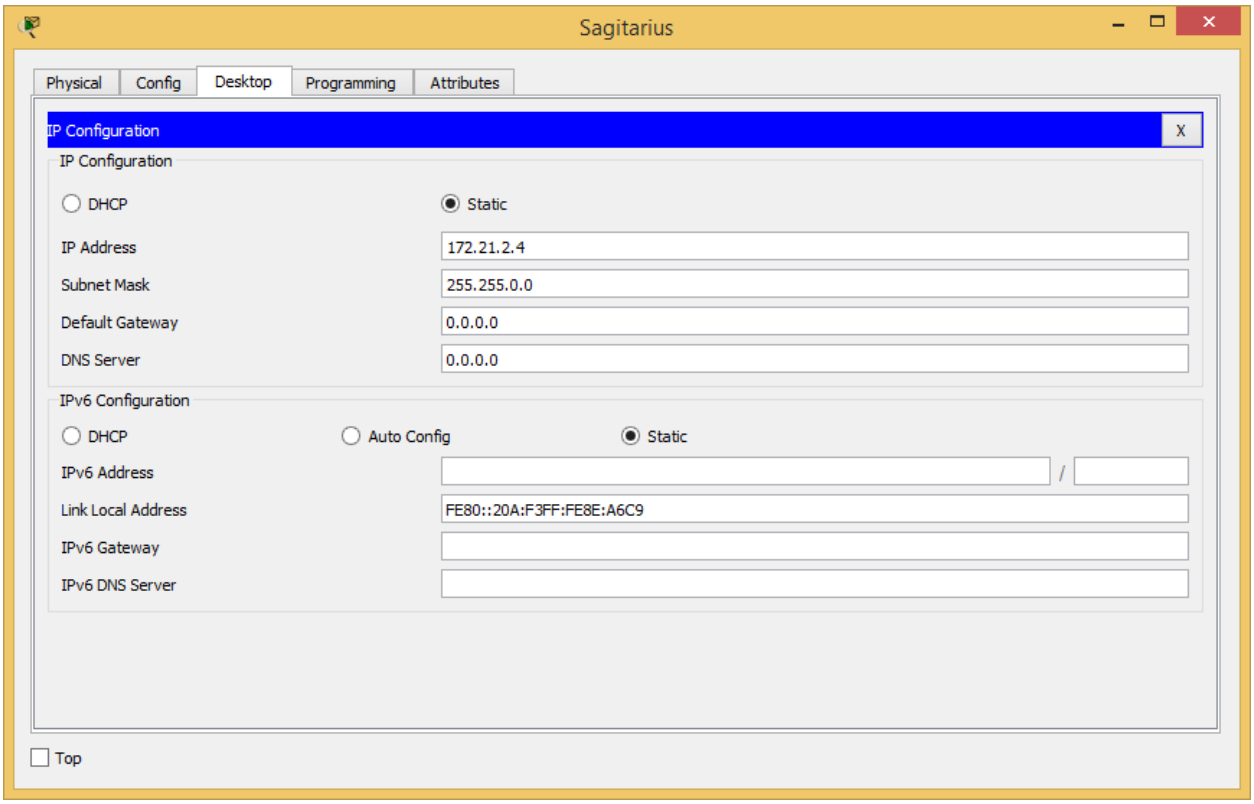
IPv6 Gateway
IPv6 DNS Server
Top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Desktop
Programming
Attributes
IP Configuration
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IP Configuration
DHCP
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IP Address
172.21.2.4
Subnet Mask
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Default Gateway
0.0.0.0
DNS Server
0.0.0.0
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address
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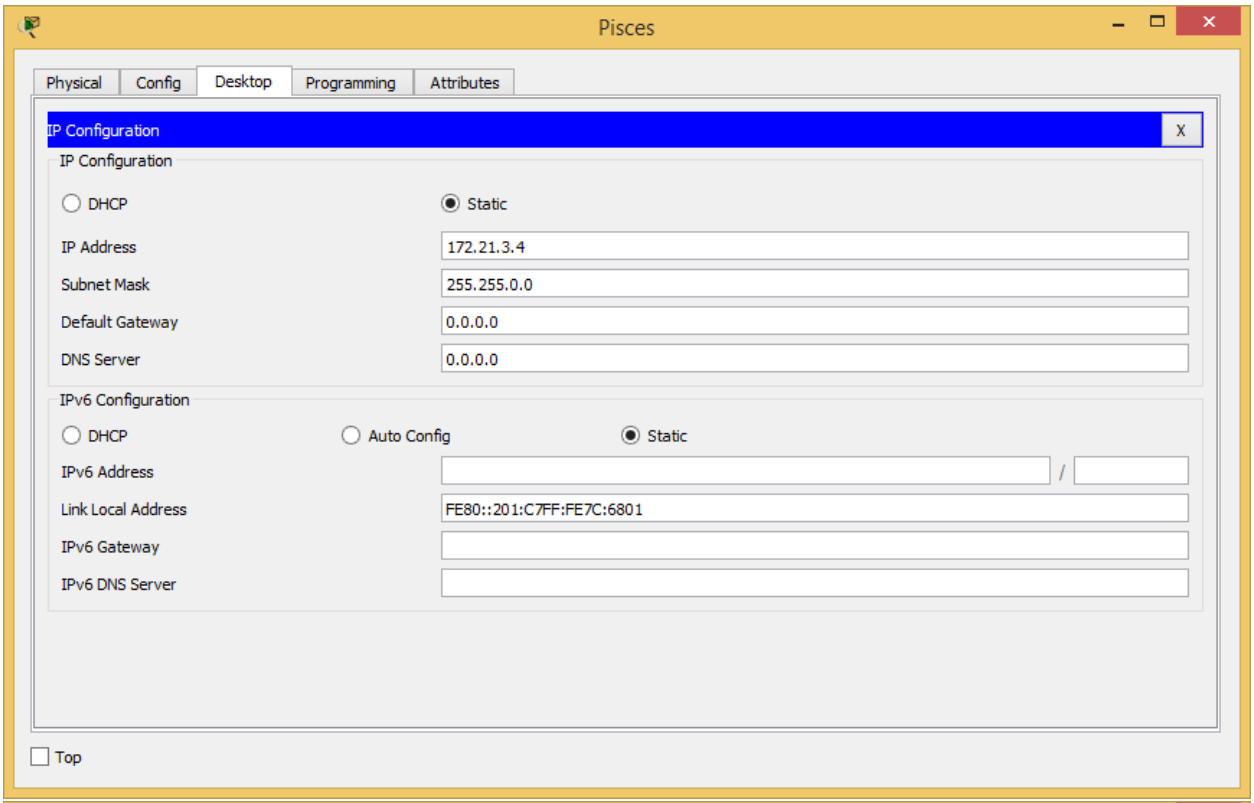
IPv6 Gateway
IPv6 DNS Server
Top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Desktop
Programming
Attributes
IP Configuration
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IP Configuration
DHCP
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IP Address
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Subnet Mask
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Default Gateway
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DNS Server
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IPv6 Configuration
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Auto Config
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IPv6 Address
Link Local Address
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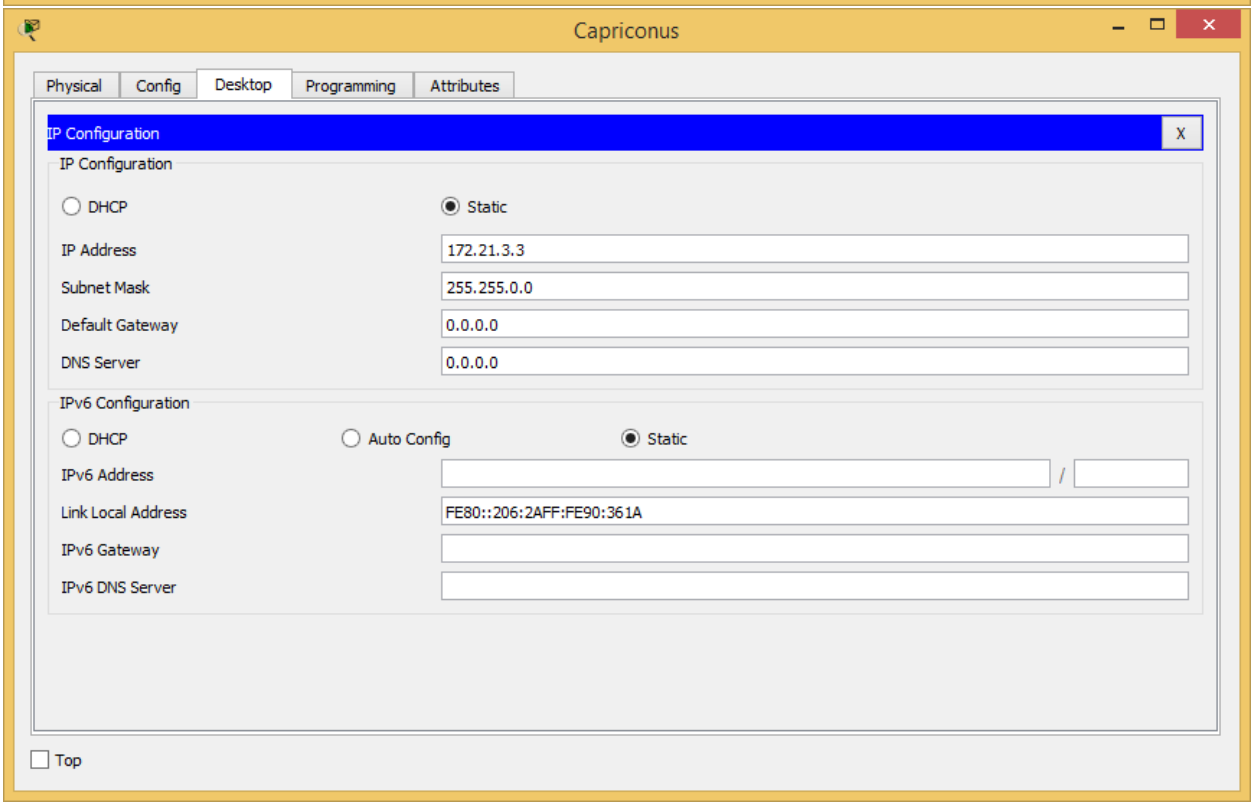
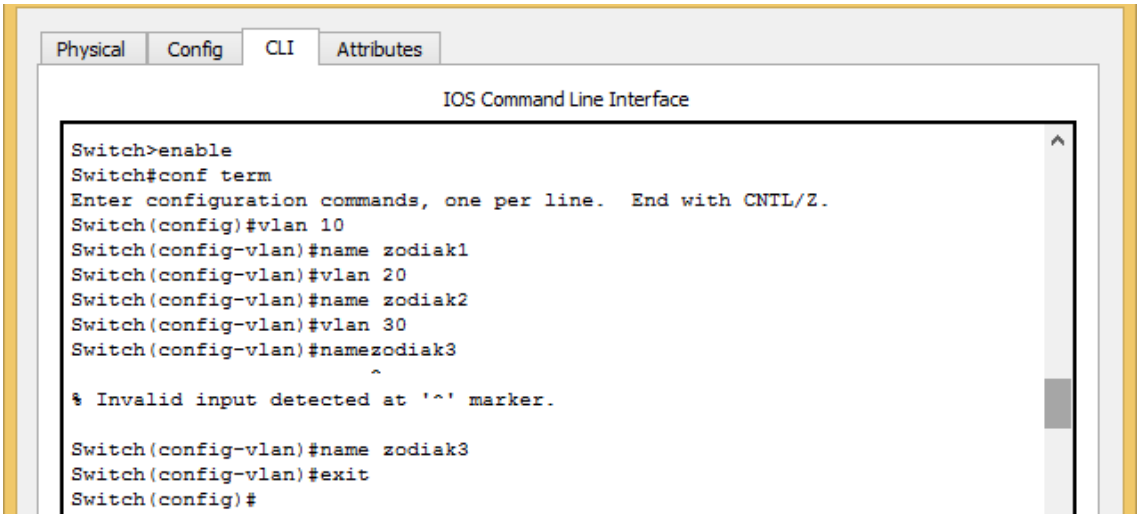
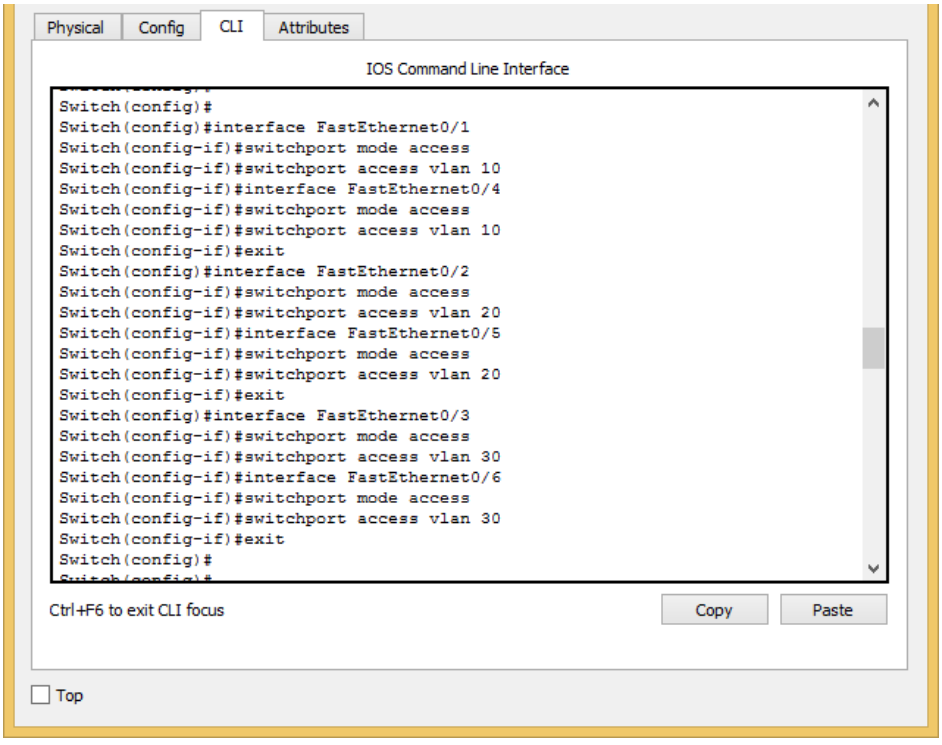
IPv6 Gateway
IPv6 DNS Server
Top


Capriconus
Physical
Config
Desktop
Programming
Attributes
IP Configuration
X
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::206:2AFF:FE90:361A
IPv6 Gateway
IPv6 DNS Server
Top

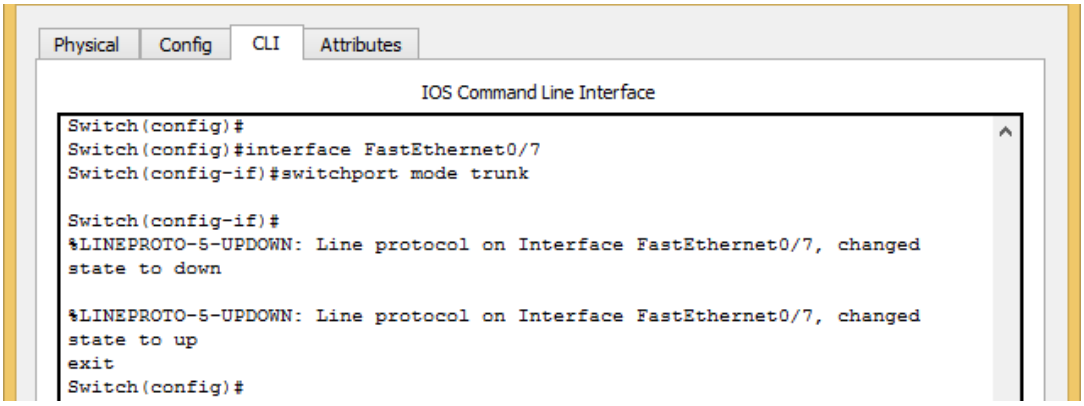
Configurasi pada switch untuk membuat 3 Vlan dengan nama zodiak1, zodiak2, zodiak3



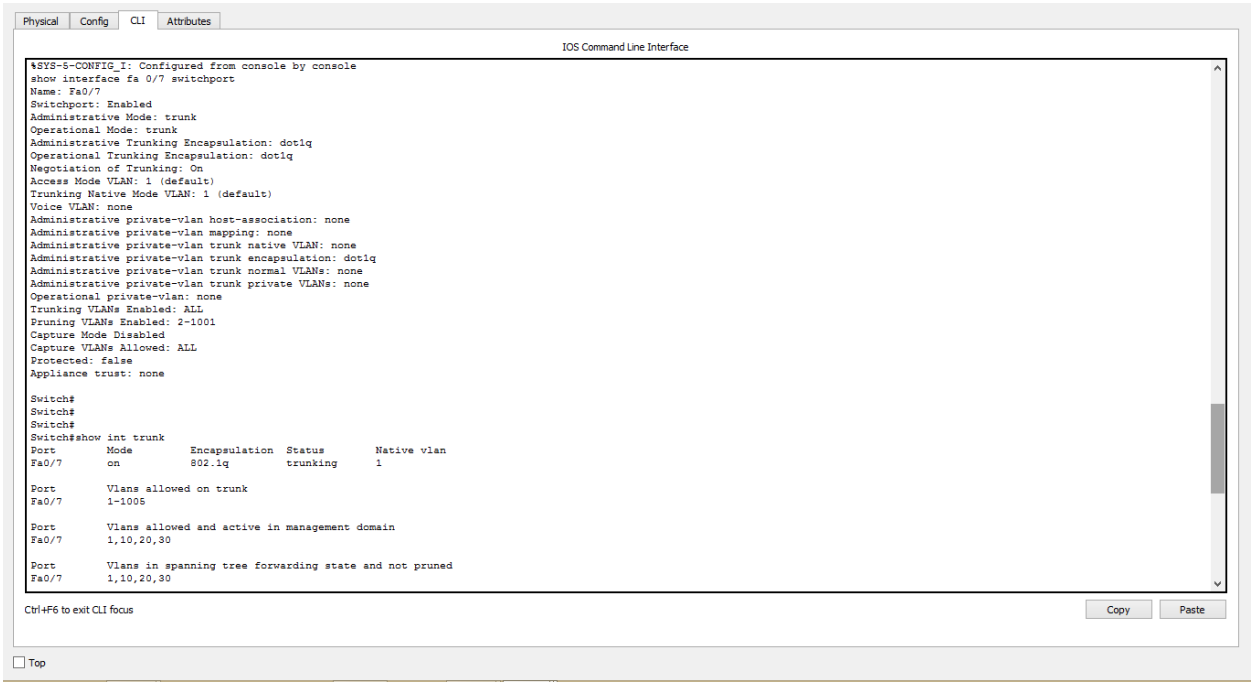
Melakukan konfigurasi port-port switch ke dalam Vlan zodiak1, zodiak2, dan zodiak3 pada switch 1

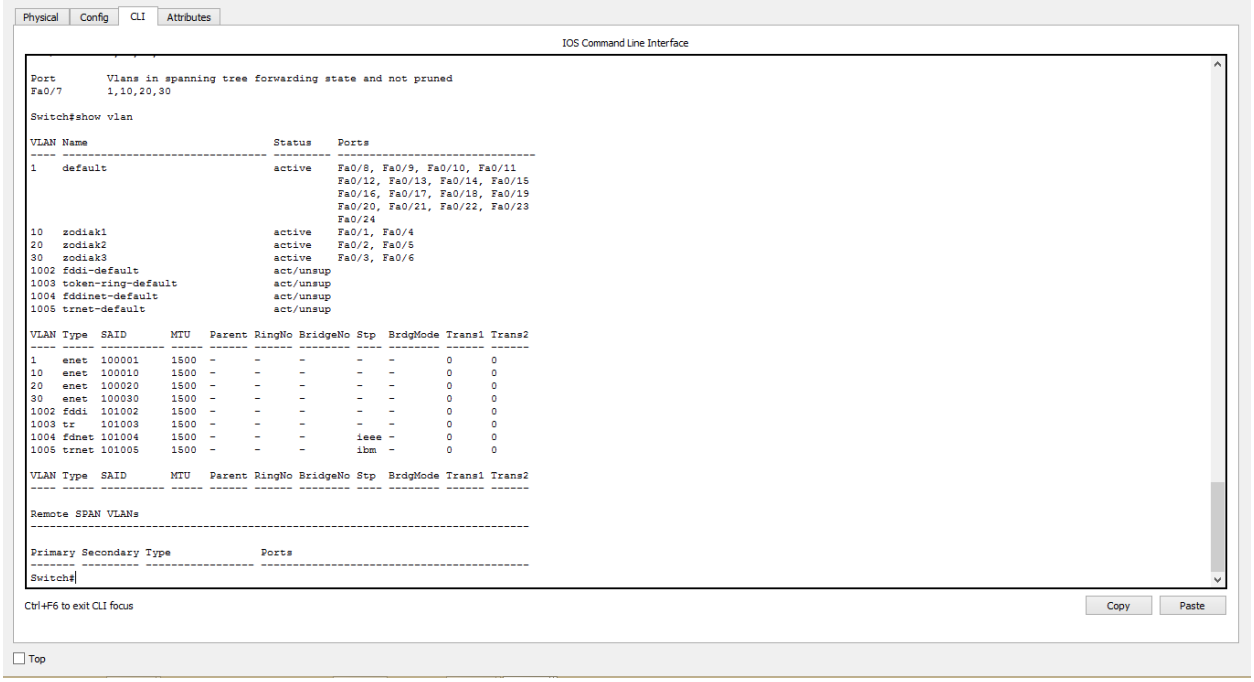


Konfigurasi Vlan trunking pada switch 1



Melihat konfigurasi trunking pada switch 1

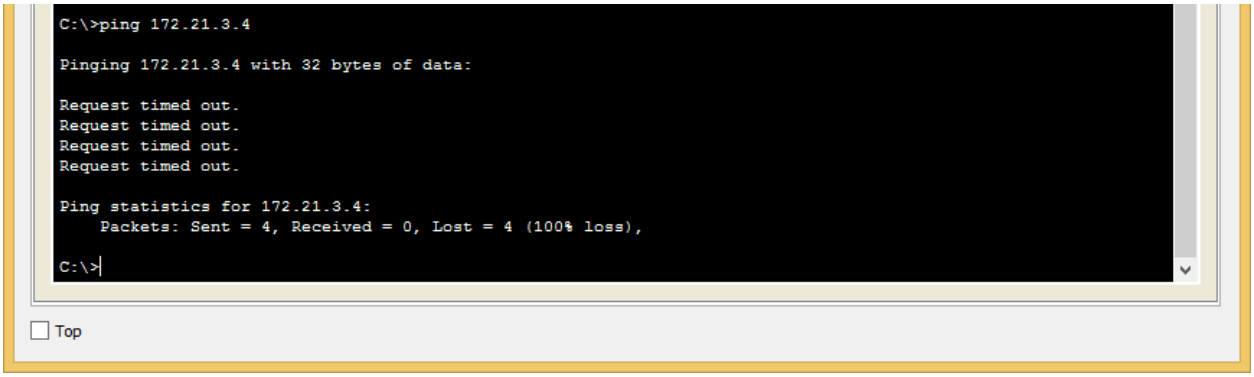




Tugas 7A : Hasil yang diperoleh dari langkah 7

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

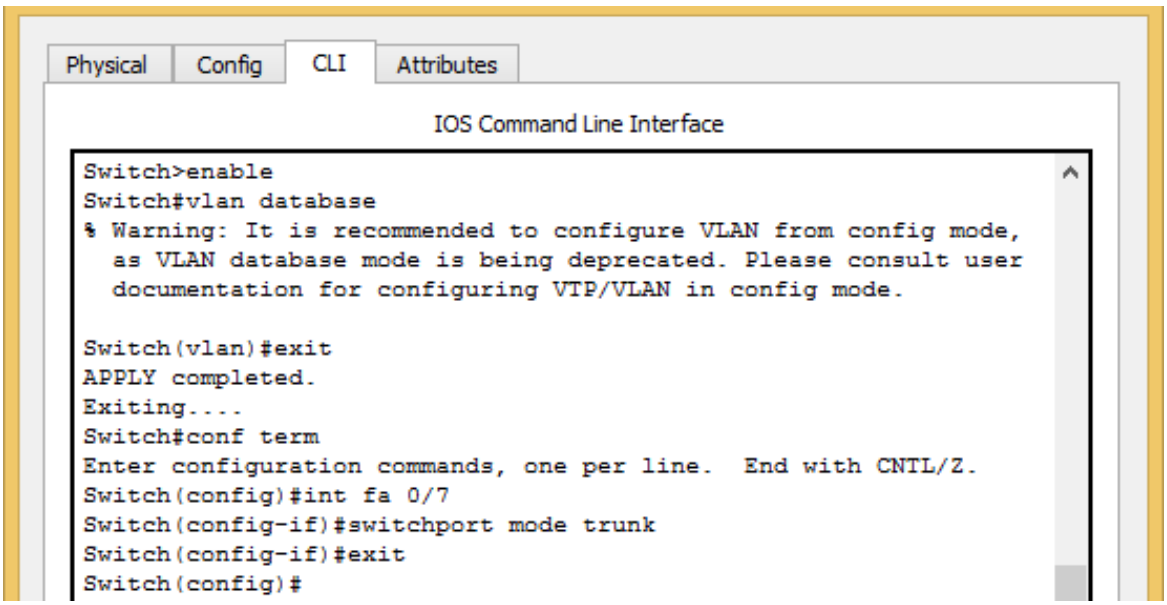
Melakukan ping dari PC leo ke PC Pisces



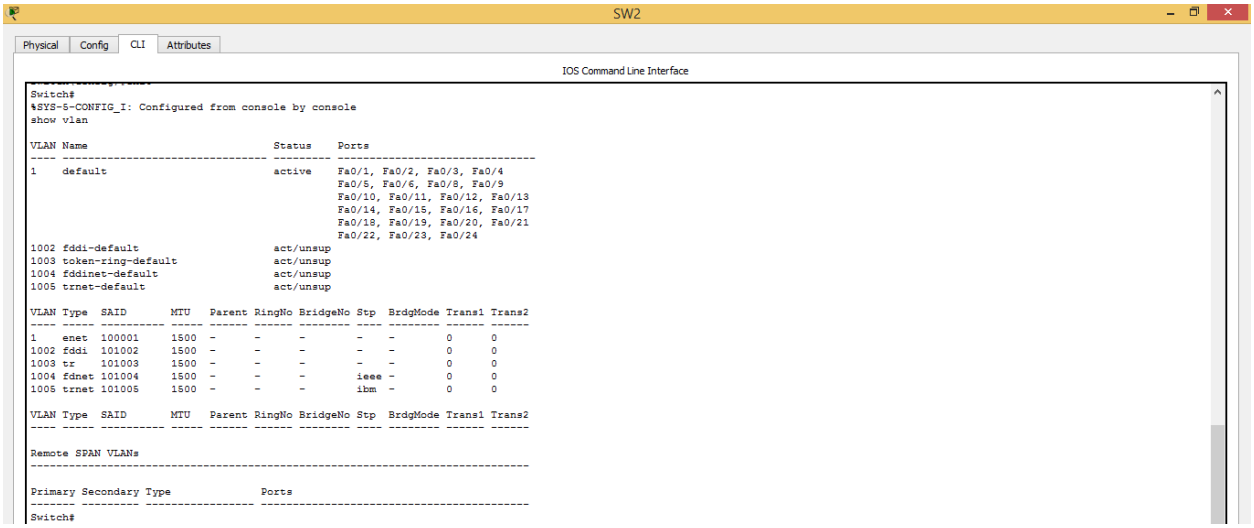
Tugas 8A : Jelaskan secara singkat mengapa hasil yang anda peroleh dari langkah 8 mendapatkan status "RTO"?

Ping dari PC leo ke PC Pisces mendapatkan status RTO atau Request Time Out karena keduanya berada pada jaringan yang berbeda dan dalam kondisi VLAN keduanya berada dalam VLAN yang berbeda(VLAN zodiak1 dan VLAN zodiak2)

Konfigurasi trunking Vlan pada switch 2



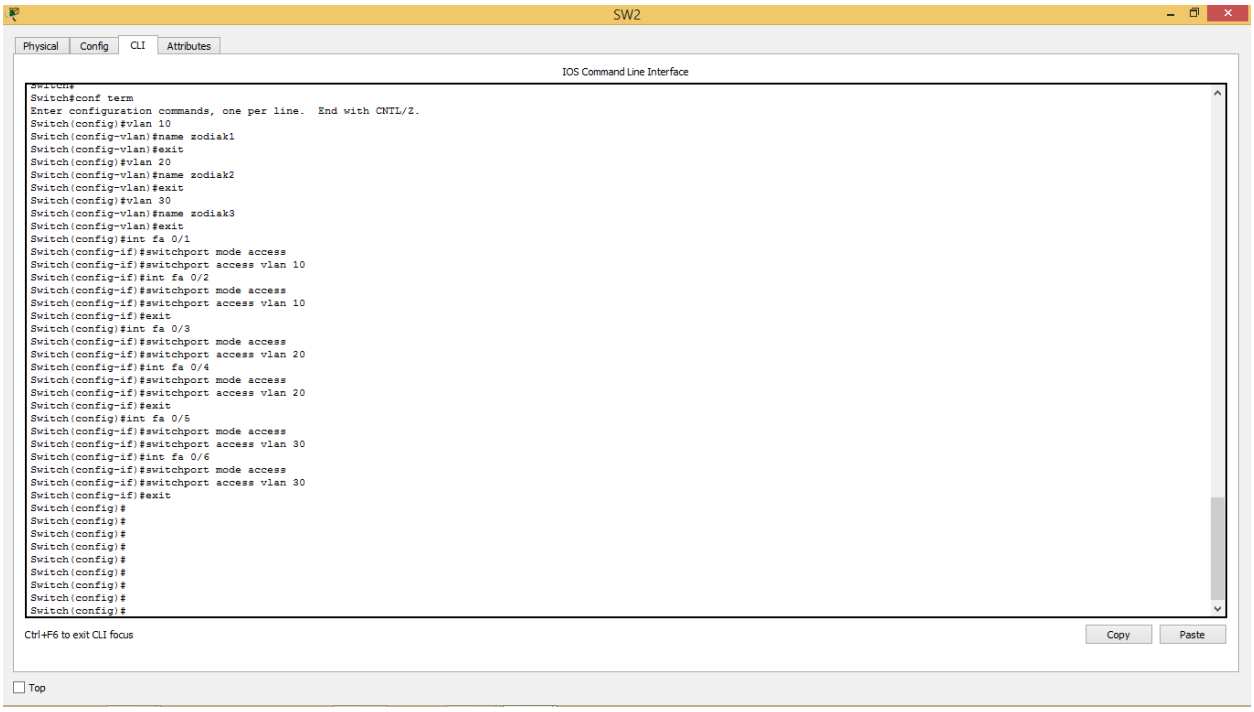
Melihat konfigurasi trunking pada switch 2



Tugas 10A : Jelaskan secara singkat hasil yang anda peroleh dari langkah 10.

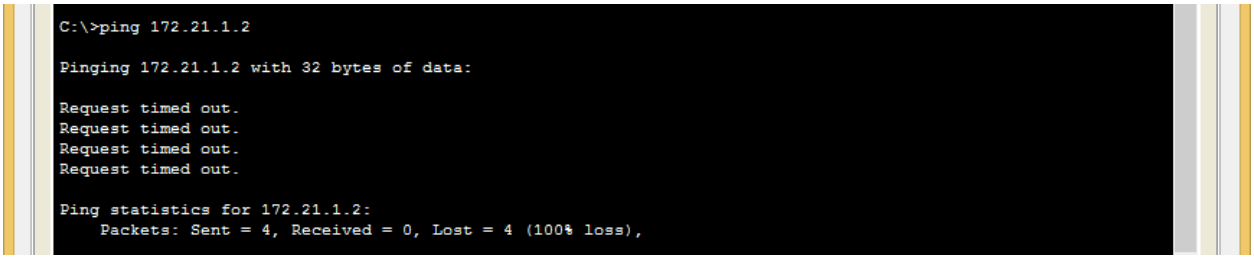
Dapat disimpulkan bahwa pada konfigurasi trunking sudah dilakukan dan dalam switch menunjukkan konfigurasi trunking sudah berjalan. Port yang telah didaftarkan dalam trunking memiliki kapasitas untuk memanaged beberapa hal yang berkaitan dengan domain(1, 10, 20, 30).

Konfigurasi port-port switch ke dalam Vlan zodiak1, zodiak2, zodiak3

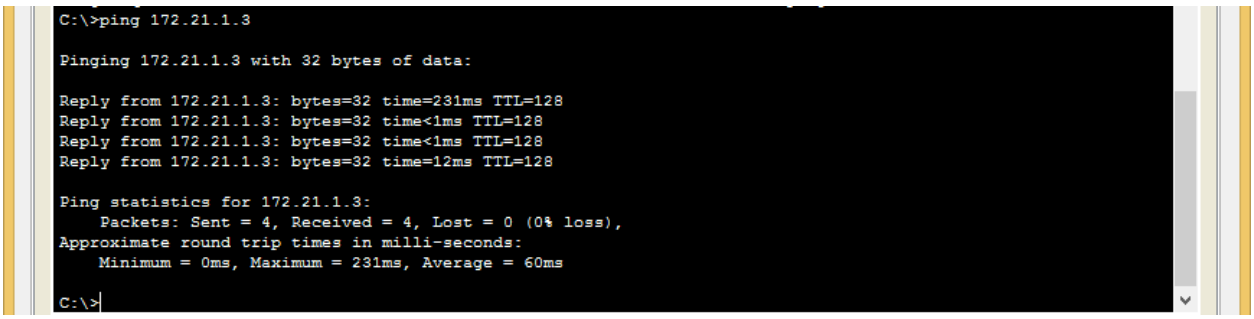


Uji Coba Ping

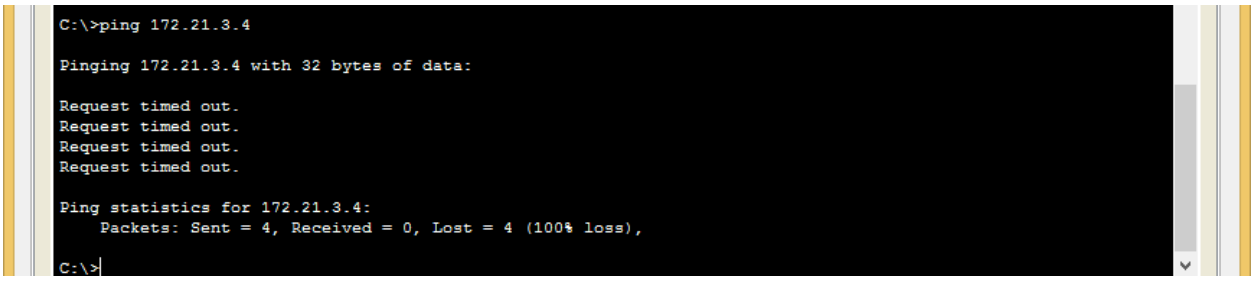
Leo ke Aries



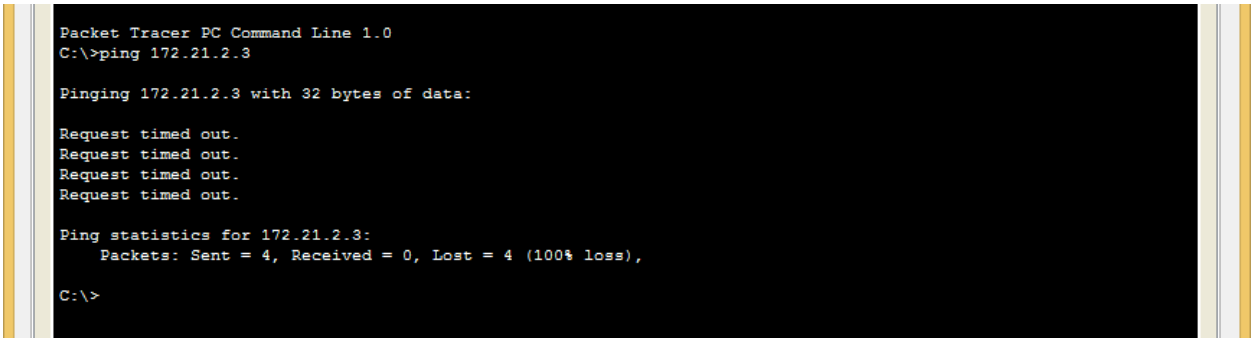
Leo ke Aquarius



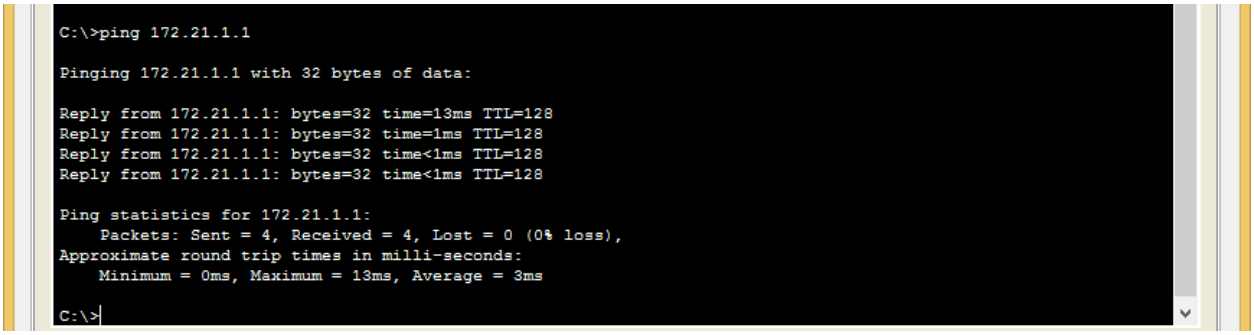
Leo ke Pisces



Libra ke Cancer



Libra ke Leo



Tugas 12 A :

Dari beberapa hasil percobaan diatas, dapat disimpulkan apabila pc berada pada vlan yang sama, maka akan meghasilkan 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 Pisces, dan pc Libra ke pc Cancer.