PRAKTIKUM JARINGAN KOMPUTER MODUL 4

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Kelas : D

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Kegiatan 2:1. Topologi 1

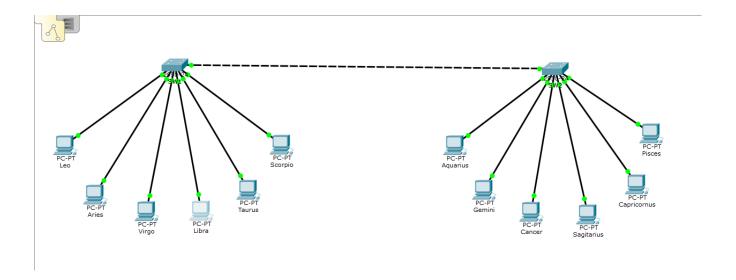
n. Pc11

1. Membuat topologi berikut ini menggunakan packet tracer

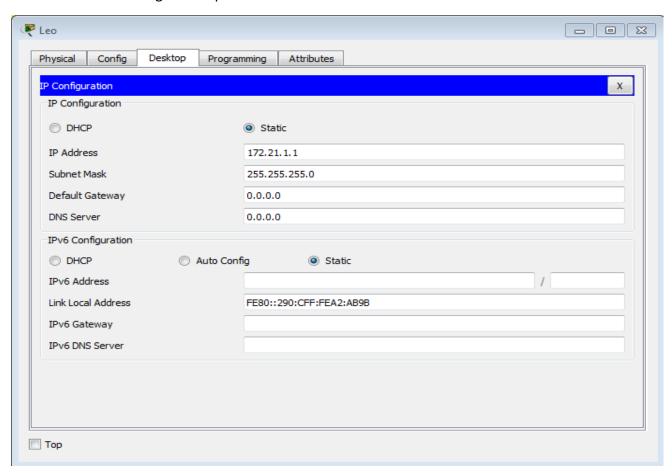
: Pisces

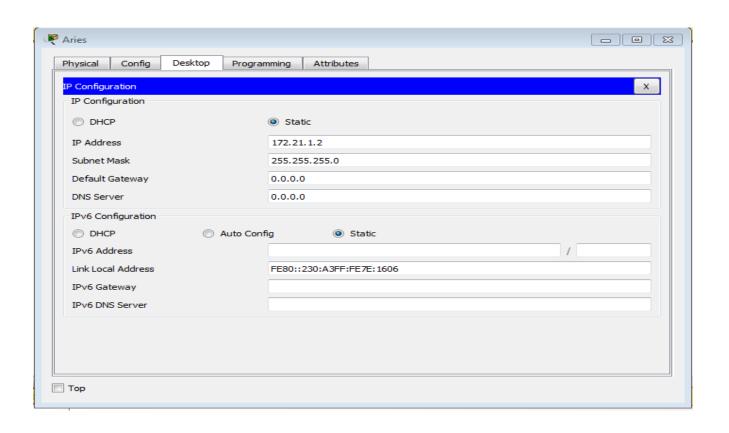
2. Memberi nama masing masing perangkat

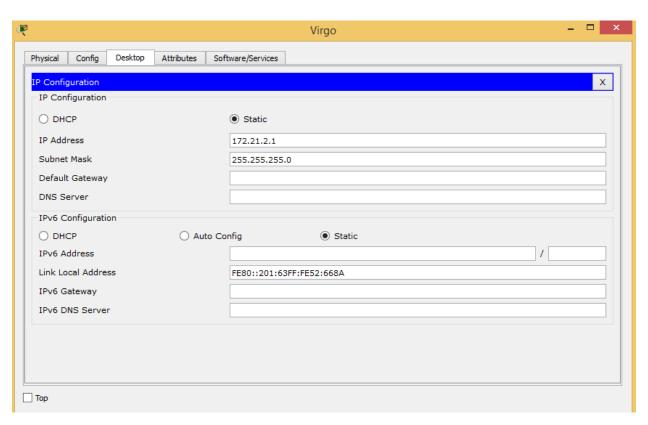
a. Switch1 : SW1 b. Switch1 : SW2 c. Pc0 : Leo d. Pc1 : Aries e. Pc2 : Virgo f. Pc3 : Libra g. Pc4 : Taurus h. Pc5 : Scorpio i. Pc6 : Aquarius j. Pc7 : Gemini k. Pc8 : Cancer I. Pc9 : Sagitarius m. Pc10 : Capcicorn

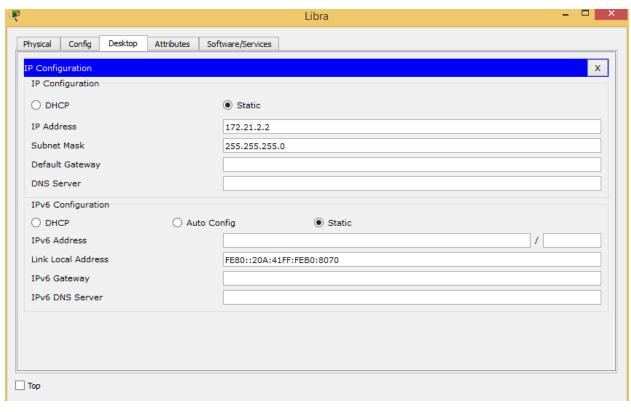


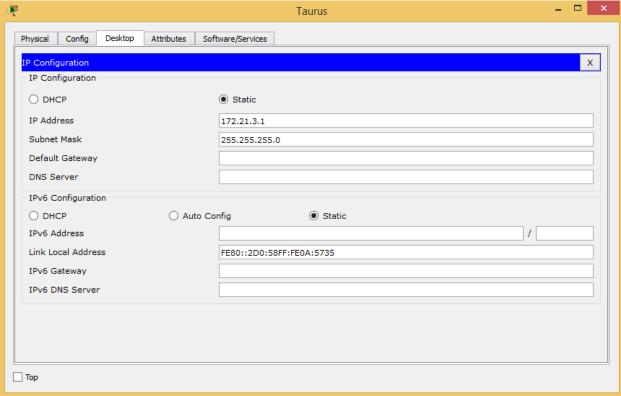
3. Merubah konfigurasi tiap PC

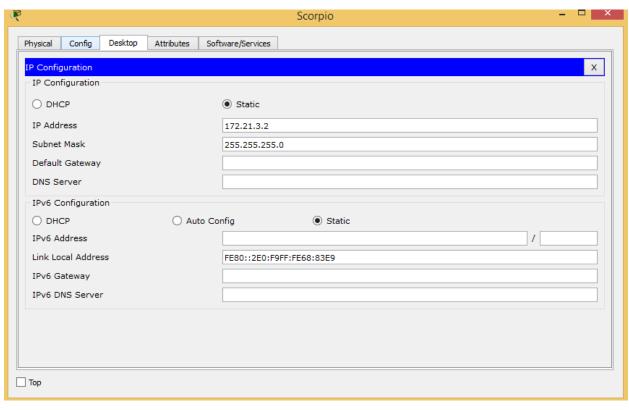


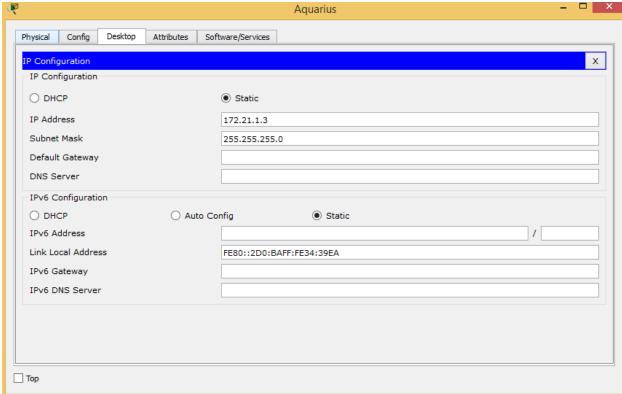


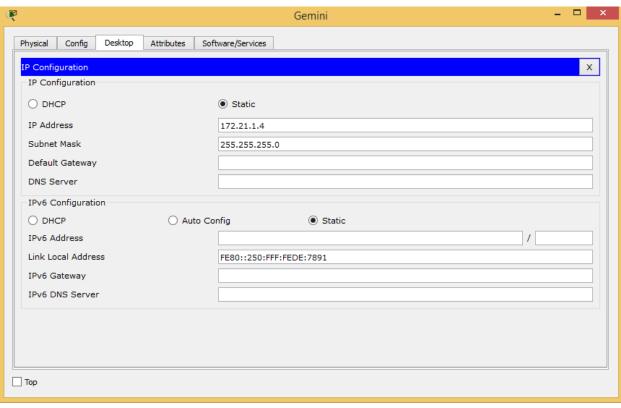


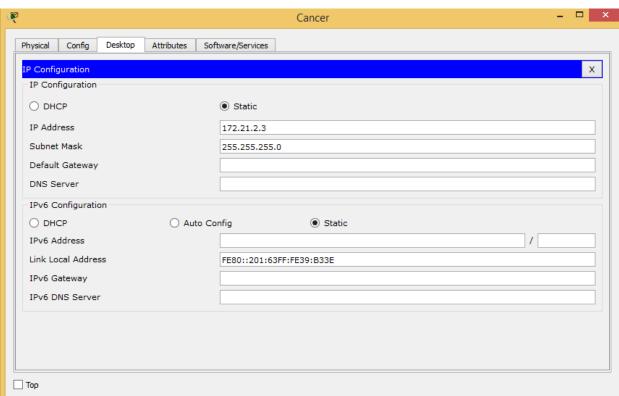


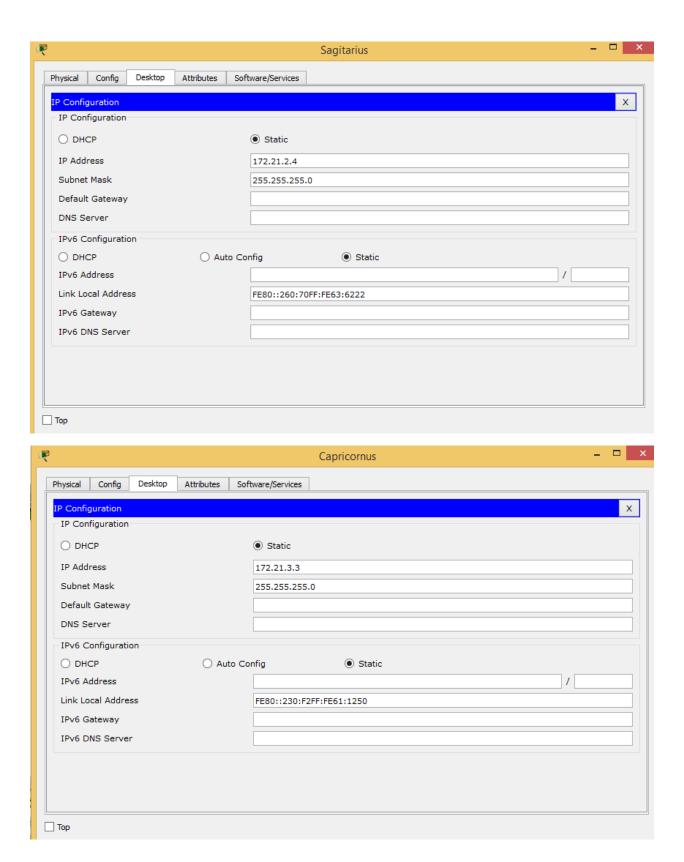


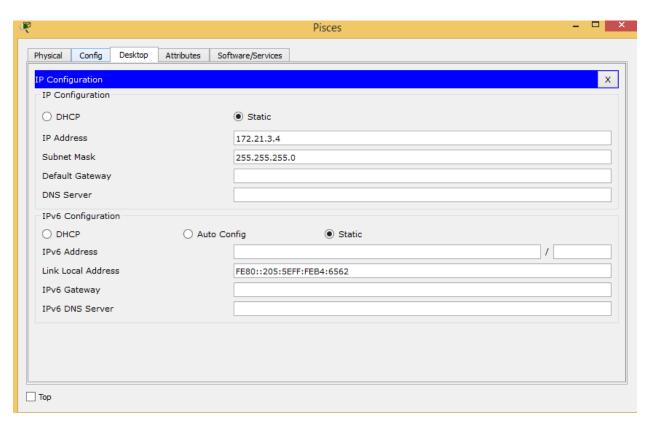












- 4. Membuat 3 buah Vlan dengan nama zodiak1, zodiak2, dan zodiak3
- 5. Selanjutnya pada mode konfigurasi, kelompokkan port-port switch ke dalam VLAN zodiak1, zodiak2, dan zodiak3. Pengaturannya sebagai berikut :

Zodiak1 : leo dan libraZodiak2 : aries dan TaurusZodiak3 : virgo dan scorpio

6. Menampilkan informasi Vlan secara keseluruhan

```
Physical Config CLI Attributes
                                                                                                                                                       IOS Com
    Switch>enable
   Switch#conf 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)#int fa 0/1
Switch(config-if)#sw mode access
Switch(config-if)#sw access vlan 10
Switch(config-if)#int fa 0/4
   Switch(config-if) #sw mode access
Switch(config-if) #sw access vlan 10
   Switch(config-if)#int fa 0/2
Switch(config-if)#sw mode access
   Switch(config-if) #sw access vlan 20
   Switch(config-if)#int fa 0/3
Switch(config-if)#sw mode access
   Switch(config-if) #sw access vlan 30
Switch(config-if) #int fa 0/5
   Switch(config-if) #sw mode access
Switch(config-if) #sw access vlan 20
Switch(config-if) #sw mode access
Switch(config-if) #sw access vlan 30
   Switch(config-if) #end
Switch
*SYS-5-CONFIG_I: Configured from console by console
   Switch#show vlan brief
   VLAN Name
```

7. Mode privileged

| | | | | | | | | | | | IOS Command Line Interf |
|-------------------------|-----------------------------------|---------------------------------|-----------------------|------------|--------|--------------|-------------------------------|---|-------------------------------|------------------|-------------------------|
| Swite | h#sho | w vlan bri | ef | | | | | | | | |
| VLAN | N Name | | | | | Status Ports | | | | | |
| 1 | defau | lt | | | act: | ive | Fa0/10, Fa0/14, Fa0/18, | Fa0/7, Fa Fa0/11, Fa0/15, Fa0/19, Fa0/23, | Fa0/12, Fa0/16, Fa0/20, | Fa0/13 Fa0/17 | |
| 10 | zodia | k1 | | | act: | ive | Fa0/1, | | | | |
| 20 | zodia | k2 | | | | | Fa0/2 | | | | |
| 30 | zodia | k3 | | | act | ive | Fa0/3, | Fa0/5 | | | |
| 1002 | fddi- | default | | | act: | ive | | | | | |
| 1003 | token | -ring-defa | ult | | act: | ive | | | | | |
| 1004 | fddin | et-default | | | act | ive | | | | | |
| 1005 | trnet | -default | | | act: | ive | | | | | |
| Swite | h#sho | w vlan id | 10 | | | | | | | | |
| WI.AN | Name | | | | Stat | tila | _ | | | | |
| | | | | | | ous | Ports | | | | |
| | | k1 | | | | | Ports Fa0/1, | | | | |
| 10 VLAN | zodia Type | k1 SAID | MTU | Parent | act: | ive Bridg | Fa0/1, | Fa0/4 BrdgMode | Trans1 | Trans2 | |
| 10 VLAN | zodia Type | k1 | MTU | Parent | act: | ive Bridg | Fa0/1, eNo Stp | Fa0/4 BrdgMode | Trans1 | Trans2 | |
| 10 VLAN | zodia Type enet | k1 SAID | MTU 1500 | Parent | act: | ive Bridg | Fa0/1, eNo Stp | Fa0/4 BrdgMode | Trans1 | Trans2 | |
| VLAN 10 Swite | zodia Type enet ch#sho | SAID 100010 w vlan id | MTU 1500 20 | Parent | RingNo | ive Bridg | Fa0/1, eNo Stp | Fa0/4 BrdgMode | Trans1 | Trans2 | |
| VLAN 10 Swite | zodia Type enet ch#sho | SAID 100010 w vlan id | MTU 1500 20 | Parent | RingNo | ive Bridg | Fa0/1, eNo Stp | Fa0/4 BrdgMode | Trans1 | Trans2 | |
| ULAN Swite | zodia Type enet ch#sho Name zodia | SAID 100010 w vlan id | MTU 1500 20 | Parent | RingNo | bridg | Fa0/1, eNo Stp Ports Fa0/2 | Fa0/4 BrdgMode | 0 Trans1 | Trans2 | |

Physical Config CLI Attributes

IOS Command Line Interface

Switch#conf term Enter configuration commands, one per line. End with CNTL/Z. Switch(config) #interface fa 0/24 Switch(config-if) #witchport mode trunk % Invalid input detected at '^' marker. Switch(config-if) #switchport 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) #ex Switch(config)#ex Switch# %SYS-5-CONFIG I: Configured from console by console Switch#show interface fastethernet 0/24 switchport Name: Fa0/24 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

101003

IOS Command Line In

| Cool + a | ah#aha | w interfac | o trunk | | | | | | | | | | |
|----------|--------|------------|---|----------|---------|--------------|--------|---------------------|---------|--------|--|--|--|
| | | W Intellac | | | ion S | Status | N | ative vla | n | | | | |
| | | on | | | | | | | - | | | | |
| | | | | | | | | | | | | | |
| | | Vlans al | lowed o | n trunk | | | | | | | | | |
| Fa0/2 | 24 | 1-1005 | | | | | | | | | | | |
| Port | | Vlans al | lowed a | nd activ | re in r | nanagemen | t doma | in | | | | | |
| | | 1,10,20, | | | | | | | | | | | |
| Down | | 777 i- | | | £ | | + | | 1 | | | | |
| Fa0/2 | 24 | 1.10.20. | Vlans in spanning tree forwarding state and not pruned 1,10,20,30 | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Swite | ch#sho | w vlan | | | | | | | | | | | |
| VI.AN | Name | | | | Sta | Status Ports | | | | | | | |
| | | | | | | | | | | | | | |
| 1 | defau | lt | | | act | | | Fa0/7, Fa | | | | | |
| | | | | | | | | Fa0/11, | | | | | |
| | | | | | | | | Fa0/15, 1 | | | | | |
| | | | | | | | | Fa0/19, 1 Fa0/23 | tau/20, | Fa0/21 | | | |
| 10 | zodia | b-1 | | | 201 | ive F | | | | | | | |
| | zodia | | | | | ive F | | 140/1 | | | | | |
| | zodia | | | | | ive F | | Fa0/5 | | | | | |
| 1002 | fddi- | default | | | act | | | , | | | | | |
| 1003 | token | -ring-defa | ult | | act | ive | | | | | | | |
| 1004 | fddin | et-default | ; | | act | ive | | | | | | | |
| 1005 | trnet | -default | | | act | ive | | | | | | | |
| VLAN | Туре | SAID | MTU | Parent | RingNo | BridgeN | o Stp | BrdgMode | Trans1 | Trans2 | | | |
| | | | | | | | | | | | | | |
| 1 | enet | 100001 | 1500 | - | - | - | | - | 0 | | | | |
| T0 | enet | 100010 | 1500 | _ | _ | _ | _ | | 0 | | | | |
| 20 | enet | 100020 | 1500 | _ | _ | _ | _ | _ | 0 | | | | |
| | | 1010030 | | | | | _ | _ | 0 | - | | | |
| 1002 | | 101002 | 1000 | | | | | | - | - | | | |

| VLAN | Name | | | | Stat | tus Po | Ports | | | | |
|-------|---------|---------------|------|--------|--------|------------------|-------|------------|---------|--------|--|
| | | | | | | | | | | | |
| 1 | defau. | lt | | | act: | | | Fa0/7, Fa0 | | | |
| | | | | | | | | Fa0/11, 1 | | | |
| | | | | | | | | Fa0/15, 1 | | | |
| | | | | | | | | Fa0/19, 1 | fa0/20, | FaU/21 | |
| 10 | | -1 | | | | | | Fa0/23 | | | |
| | zodial | | | | | ive Fa ive Fa | | rau/4 | | | |
| | zodia | | | | | ive Fa | | F-0/E | | | |
| | | ko default | | | act: | | 10/0, | 20/0 | | | |
| | | -ring-def | ault | | act: | | | | | | |
| | | et-defaul | | | | active | | | | | |
| | | -default | | | | active | | | | | |
| | | | | | | | | | | | |
| VLAN | Type | SAID | MTU | Parent | RingNo | BridgeNo | Stp | BrdgMode | Trans1 | Trans2 | |
| | | 100001 | | | - | - | _ | - | 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 | |
| | | 101003 | | | - | - | - | | 0 | 0 | |
| | | 101004 | | | | | ieee | | 0 | 0 | |
| 1005 | trnet | 101005 | 1500 | - | - | - | ibm | - | 0 | 0 | |
| n | CD31 | T TIT 731- | | | | | | | | | |
| Kemot | LE SPAI | N VLANs | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

8. Ping dari PC leo ke pisces

```
C:\>ping 172.21.1.1 with 32 bytes of data:

Reply from 172.21.1.1: bytes=32 time=22ms TTL=128
Reply from 172.21.1.1: bytes=32 time=18ms TTL=128
Reply from 172.21.1.1: bytes=32 time=10ms TTL=128

Ping statistics for 172.21.1.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 10ms, Maximum = 22ms, Average = 17ms

C:\>
C:\>
C:\>ping 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:

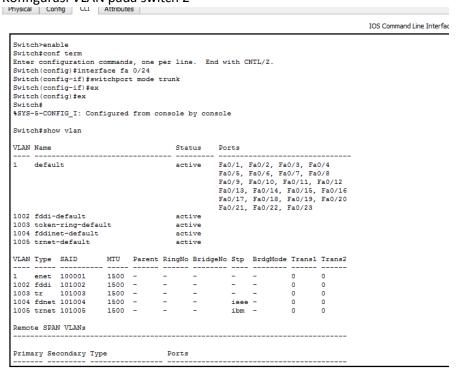
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 172.21.2.1 with 32 bytes of data:

Request timed out.
```

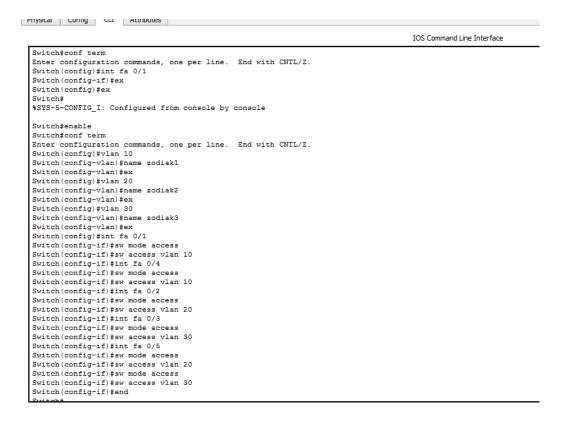
```
Physical Config Desktop Attributes Software/Services
  Command Prompt
 Request timed out.
 Ping statistics for 172.21.1.4:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
 C:\>ping 172.21.2.3
 Pinging 172.21.2.3 with 32 bytes of data:
 Request timed out.
 Request timed out.
Request timed out.
Request timed out.
 Ping statistics for 172.21.2.3:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
 C:\>ping 172.21.2.4
 Pinging 172.21.2.4 with 32 bytes of data:
 Request timed out.
Request timed out.
Request timed out.
Request timed out.
 Ping statistics for 172.21.2.4:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
 C:\>ping 172.21.3.3
 Pinging 172.21.3.3 with 32 bytes of data:
 Request timed out.
Request timed out.
Request timed out.
Request timed out.
 Ping statistics for 172.21.3.3:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

9. Konfigurasi VLAN pada switch 2



10. Ubah mode privileged

11. Mode configuration



```
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),
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
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:\>
```

```
Pinging 172.21.2.3 with 32 bytes of data:

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),

C:\>ping 172.21.1.1

Pinging 172.21.1.1 with 32 bytes of data:

Request timed out.
Ping statistics for 172.21.1.1:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```