Nama : Yarin Nanditya A

Kelas : D

Nim : L200170155

<u>Laporan Praktikum</u> <u>MODUL 4</u>

Kegiatan 1

- 1. Membuat topologi berikut ini menggunakan packet tracer
- 2. Memberi nama masing masing perangkat

a. Switch: SW

b. Pc1: Leo

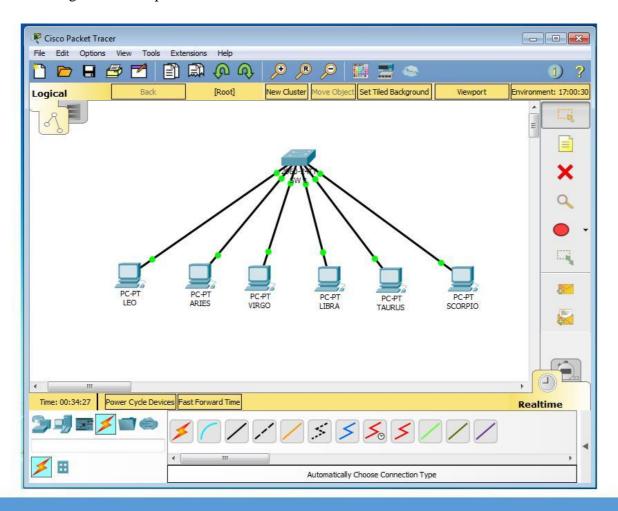
c. Pc2: Aries

d. Pc3: Virgo

e. Pc4: Libra

f. Pc5: Taurus

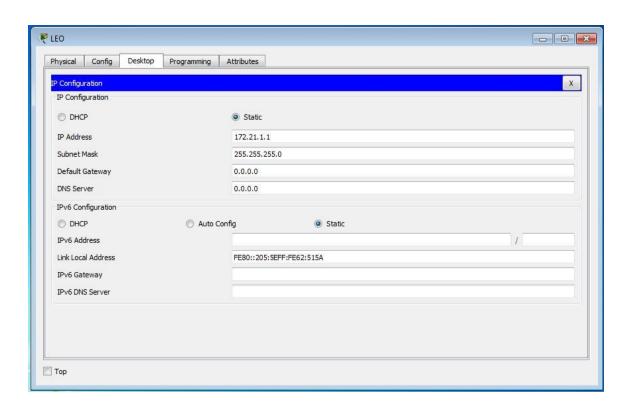
g. Pc6: Scorpio



3. Merubah konfigurasi tiap PC

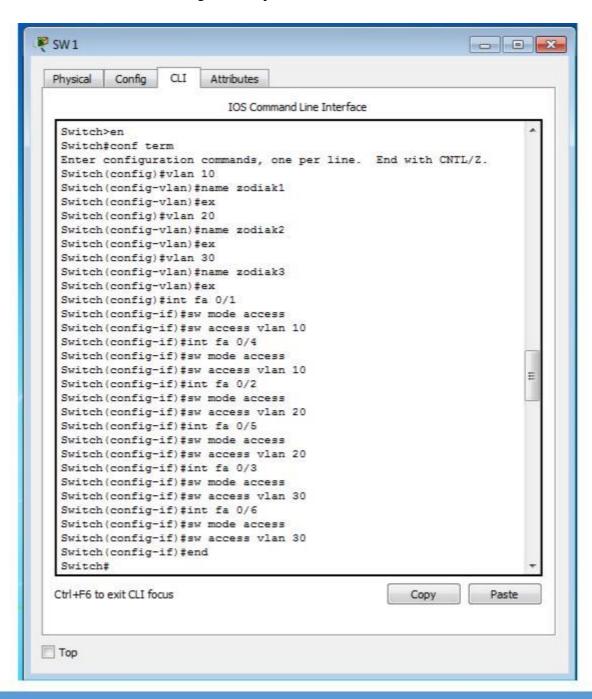
a. Leo : 172.21.1.1/24 b. Aries : 172.21.1.2/24 c. Virgo : 172.21.1.3/24 d. Libra : 172.21.1.4/24 e. Taurus : 172.21.1.5/24 f. Scorpio : 172.21.1.6/24

/24 maksudnya adalah masuk kelas c

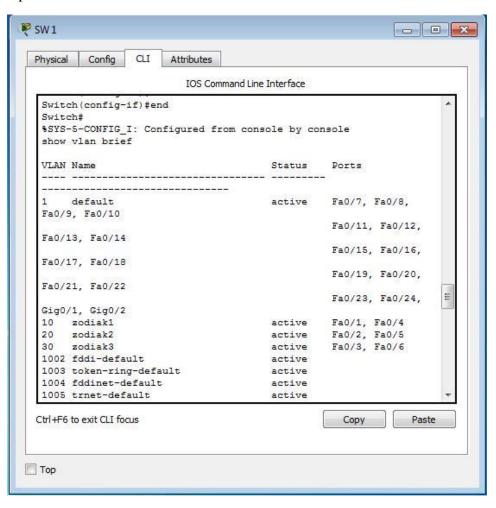


- 4. Membuat 3 buahVLAN dengan nama zodiak1, zodiak2, dan zodiak3
- 5. Selanjutnya pada mode konfigurasi, kelompokkan port-port switch kedalam VLAN zodiak1, zodiak2, dan zodiak3. Pengaturannya sebagai berikut :

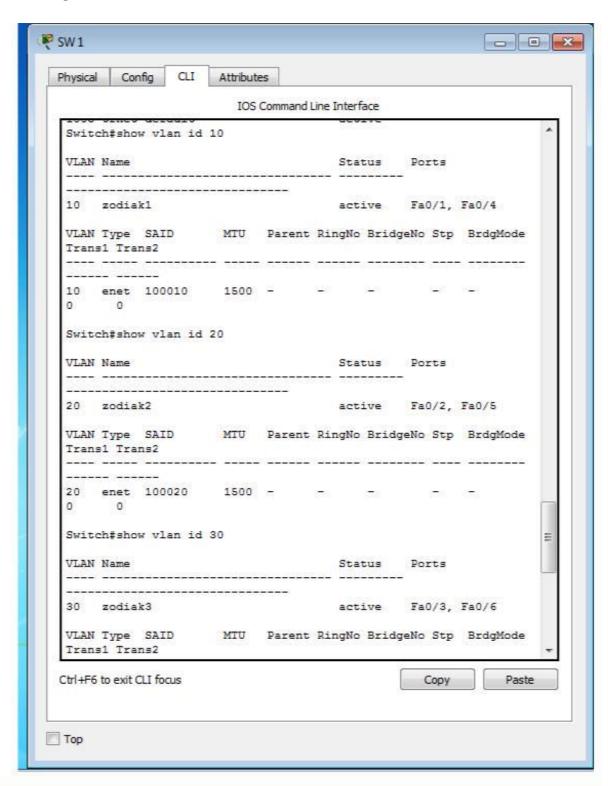
Zodiak1 : leo dan libraZodiak2 : ariesdan TaurusZodiak3 : virgodanscorpio



6. Menampilkan informasi VLAN secara keseluruhan



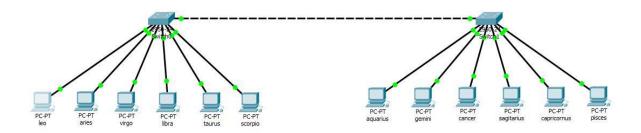
7. Menampilkan informasi VLAN 10, 20,dan 30



Kegiatan 2

Kegiatan 2

1. Topologi menggunakan switch Catalyst 2950

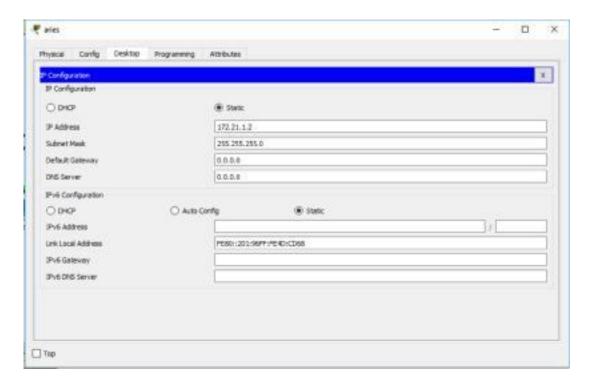


- Konfigurasi masing-masing pc

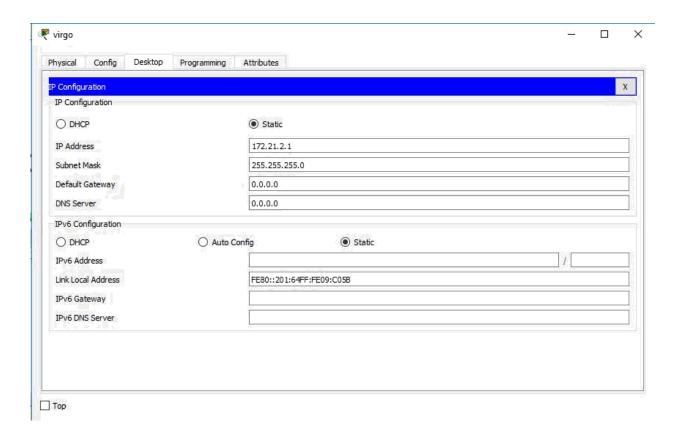
LEO

leo				- 0
Physical	Config Des	ktop Programming	Attributes	
IP Configurat	tion			х
IP Configur	ration			
ODHCP			Static	
IP Address			172.21.1.1	
Subnet Ma	sk		255.255.255.0	
Default Ga	teway		0.0.0.0	
DNS Server	r		0.0.0.0	
IPv6 Config	guration			
O DHCP		O Auto	Config Static	
IPv6 Addre	ess			/
Link Local A	Address		FE80::2E0:F7FF:FE92:D047	
IPv6 Gatev	way			
	Server			
IPv6 DNS S				
IPv6 DNS S				
IPv6 DNS S				
IPv6 DNS S				

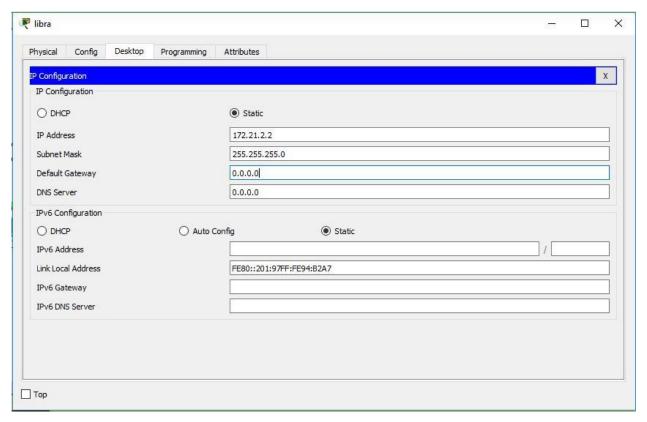
• ARIES



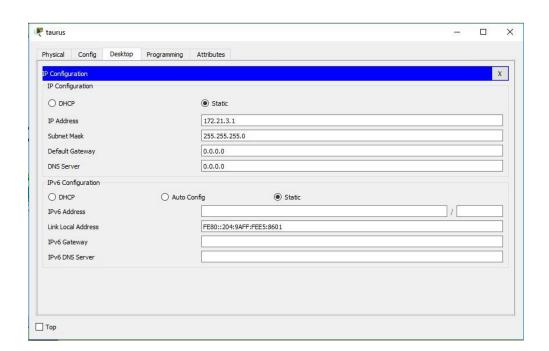
• VIRGO



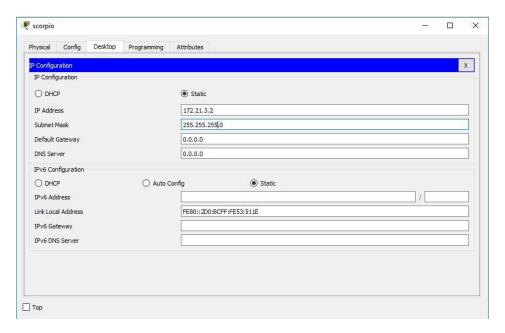
• LIBRA



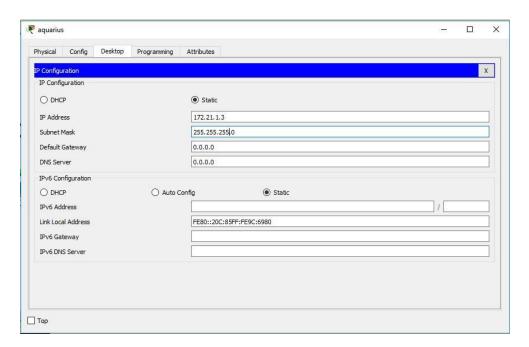
• TAURUS



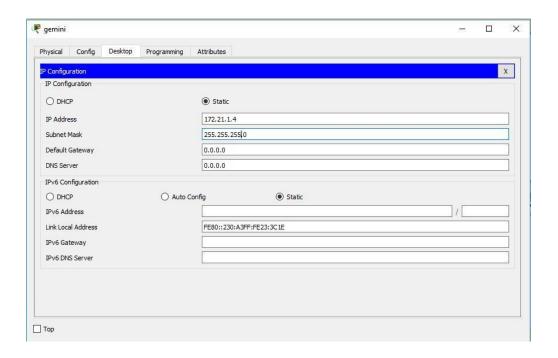
• SCORPIO



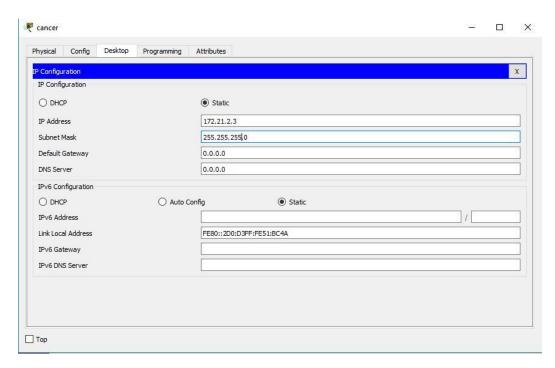
• AQUARIUS



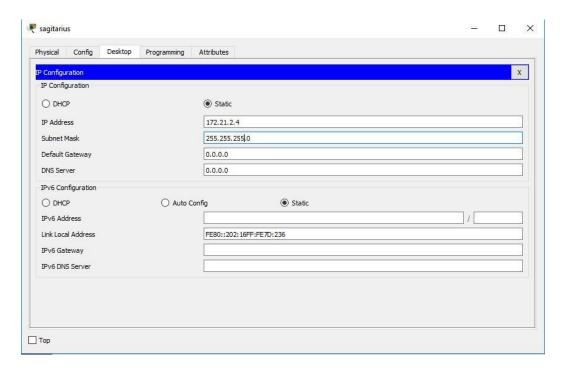
• GEMINI



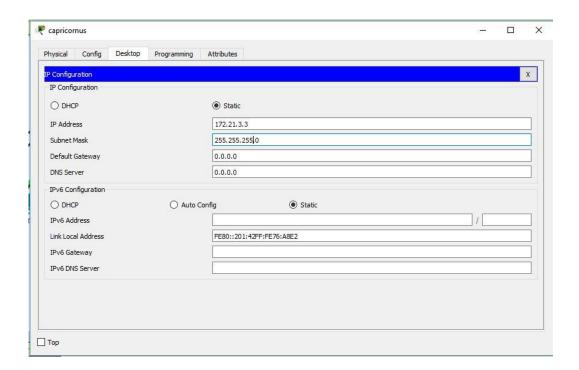
• CANCER



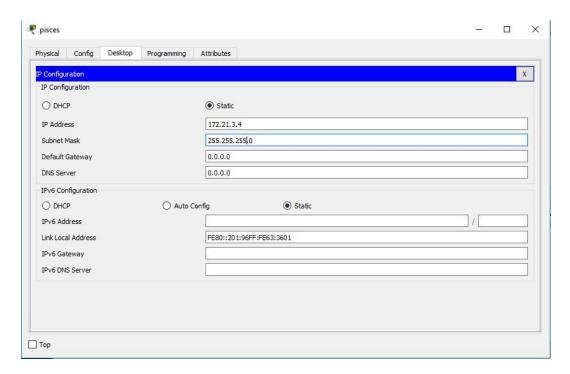
• SAGITARIUS



CAPRICONUS



PISCES



3. Langkah 4 & 5

```
Switch enable
Switch conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch (config) #vlan 10
Switch (config-vlan) #name zodiakl
Switch (config-vlan) #exit
Switch (config) #vlan 20
Switch (config-vlan) #name zodiak2
Switch (config-vlan) #exit
Switch (config-vlan) #exit
Switch (config-vlan) #exit
Switch (config-vlan) #name zodiak3
Switch (config-vlan) #name zodiak3
Switch (config-vlan) #exit
```

```
Switch(config) #int fa 0/1
Switch(config-if) #sw mode access
Switch(config-if) #sw access vlan 10
Switch(config-if) #exit%SPANTREE-2-RECV PVID ERR: Received 802.1Q
BPDU on non trunk FastEthernet0/1 VLAN1.
SPANTREE-2-BLOCK PVID LOCAL: Blocking FastEthernet0/1 on
VLAN0001. Inconsistent port type.
%CDP-4-NATIVE VLAN MISMATCH: Native VLAN mismatch discovered on
FastEthernet0/1 (10), with Switch FastEthernet0/1 (1).
Switch(config) #int fa 0/4
Switch(config-if) #sw mod
%CDP-4-NATIVE VLAN MISMATCH: Native VLAN mismatch discovered on
FastEthernet0/1 (10), with Switch FastEthernet0/1 (1).
e access
Switch(config-if) #int fa 0/4
Switch(config-if) #sw mode access
Switch(config-if) #sw access vlan 10
Switch (config-if) #exit
Switch(config) #int fa 0/2
Switch(config-if) #sw mode access
                                                           Activate W
Switch(config-if) #int fa 0/3
Switch(config-if) #sw mode access
Switch(config-if) #sw access vlan 30
Switch(config-if) #exit
Switch(config) #int fa 0/5
Switch(config-if) #sw mode access
Switch(config-if) #sw access vlan 20
Switch(config-if) #sw mode ac
%CDP-4-NATIVE VLAN MISMATCH: Native VLAN mismatch discovered on
FastEthernet0/1 (10), with Switch FastEthernet0/1 (1).
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
```

4. Konfigurasi vlan trunking pada switch 1

```
Switch#conf term
  Enter configuration commands, one per line. End with CNTL/Z.
  Switch (config) #int fa 0/1
  Switch(config-if) #sw mode trunk
  Switch (config-if) #
  %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1,
  changed state to down
  *LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1,
  changed state to up
  Switch (config-if) #exit
5. Pada mode user dan mode privileged lihat komfigurasi trunking switch 1 yang
  telah dibuat
  Switch#show interface fastethernet 0/1 switchport
  Name: Fa0/1
  Switchport: Enabled
  Administrative Mode: trunk
  Operational Mode: trunk
  Administrative Trunking Encapsulation: dotlg
  Operational Trunking Encapsulation: dotlg
  Negotiation of Trunking: Off
  Access Mode VLAN: 10 (zodiakl)
  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: dotlg
  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
  Capture Mode Disabled
  Capture VLANs Allowed: ALL
  Protected: false
  Appliance trust: none
```

Switch#show vlan

VLAN Name	Status	Ports
1 default Fa0/8, Fa0/9	active	Fa0/6, Fa0/7,
Fa0/12, Fa0/13		Fa0/10, Fa0/11,
Fa0/16, Fa0/17		Fa0/14, Fa0/15,
Fa0/20, Fa0/21		Fa0/18, Fa0/19,
Fa0/24		Fa0/22, Fa0/23,
10 zodiakl	active	Fa0/4
20 zodiak2	active	
30 zodiak3	active	Fa0/3, Fa0/5
1002 fddi-default	act/unsup	
1003 token-ring-default	act/unsup	
1004 fddinet-default	act/unsup	
1005 trnet-default	act/unsup	

VLAN Type SAID MTU Parent RingNo BridgeNo Stp BrdgMode

6. Lakukan ping dari pc leo ke pc pisces

```
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),
```

7. Lakukan konfigurasi vlan trunking pada switch 2

Switch>enable
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface fa 0/1
Switch(config-if)#switchport mode trunk
Switch(config-if)#exit
Switch(config)#

8. Pada mode user dan mode privileged lihat komfigurasi trunking switch 2 yang telah dibuat

Switch#show vlan

VLAN Name	Status Ports
1 default	active 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	F-0/10 F-0/10
E-0/20 E-0/21	Fa0/18, Fa0/19,
Fa0/20, Fa0/21	Fa0/22, Fa0/23,
Fa0/24	Fa0/22, Fa0/23,
1002 fddi-default	act/unsup
1003 token-ring-default	act/unsup
1004 fddinet-default	act/unsup
1005 trnet-default	act/unsup
VLAN Type SAID MTU I	Parent RingNo BridgeNo Stp BrdgMode
Transl Trans2	

VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode
Transl Trans2								
1	enet	100001	1500	-	-	-	-	-
0	0							
1002	fddi	101002	1500	-	-	-	-	-
0	0							
1003	tr	101003	1500	-	-	-	-	-
0	0							
1004	fdnet	101004	1500	-	-	-	ieee	-
0	0							
1005	trnet	101005	1500	-	-	-	ibm	-
0	0							
VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode
Transl Trans2								
Remote SPAN VLANs								

9. Konfigurasi port-port switch kedalam VLAN zodiak1, zodiak2,

zodiak3 Zodiak1 = aquarius & gemini

Zodiak2 = cancer & sagitarius

Zodiak3 = capricornus & pisces

Switch(config) #int fa 0/1
Switch(config-if) #sw mode access
Switch(config-if) #%SPANTREE-2-RECV_PVID_ERR: Received 802.1Q BPDU
on non trunk FastEthernet0/1 VLAN1.

%SPANTREE-2-BLOCK_PVID_LOCAL: Blocking FastEthernet0/1 on VLAN0001. Inconsistent port type.

sw access

% Incomplete command.
Switch(config-if) #sw access vlan 10
Switch(config-if) #exit
Switch(config) #int fa 0/4
Switch(config-if) #sw mode access
Switch(config-if) #sw access vlan 10
Switch(config-if) #sw access vlan 10
Switch(config-if) #exit
Switch(config-if) #sw mode access
Switch(config-if) #sw mode access
Switch(config-if) #sw access vlan 20
Switch(config-if) #exit
Switch(config) #

 $CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/1 (10), with Switch FastEthernet0/1 (1).$

10. Lakukan ping

Ping PC leo ke PC aries

```
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),
```

Ping PC leo ke PC aquarius

```
C:\>ping 172.21.1.3

Pinging 172.21.1.3 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 172.21.1.3:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

Ping PC leo ke PC pisces

```
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),
```

Ping PC libra ke PC cancer

```
Packet Tracer PC Command Line 1.0
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),
```

Ping PC libra ke PC leo

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

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