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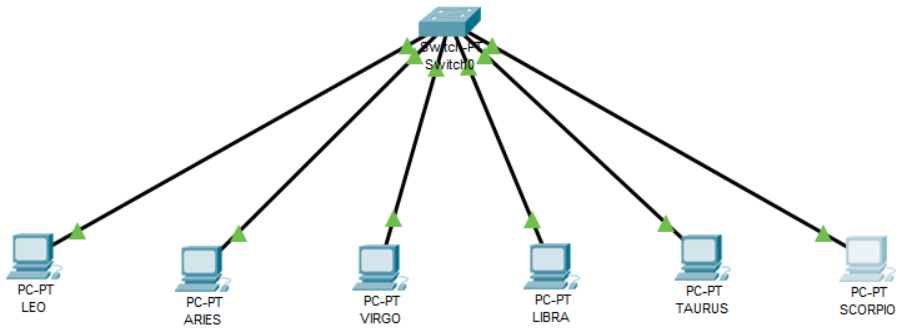
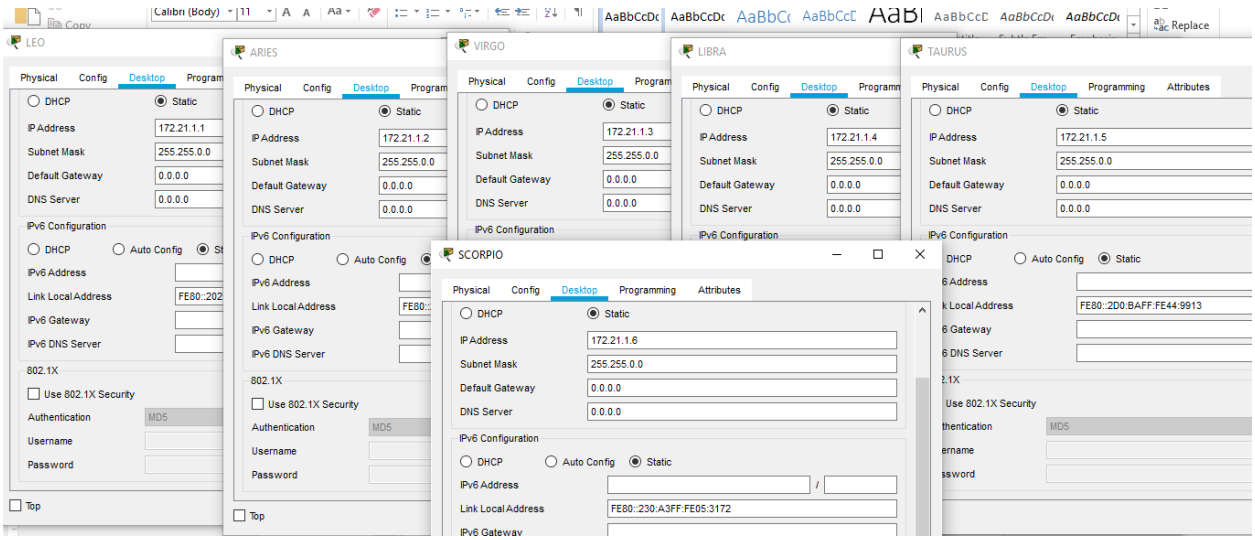
KELAS : D

MODUL 4

1. Kegiatan 1. Topologi 1
   a. Packet tracer dan menamai perangkat



   b. Konfigurasi masing masing pc



c. Membuat 3 vlan zodiak1, zodiak2, zodiak3

```
  as VLAN database mode is being deprecated. Please consult user
  documentation for configuring VTP/VLAN in config mode.

Switch(vlan)#vlan 10 name zodiak1
VLAN 10 added:
    Name: zodiak1
Switch(vlan)#vlan 20 name zodiak2
VLAN 20 added:
    Name: zodiak2
Switch(vlan)#vlan 30 name zodiak3
VLAN 30 added:
    Name: zodiak3
Switch(vlan)#ex
APPLY completed.
Exiting....
Switch#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#int fa0/1
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#int fa0/4
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#int fa0/2
Switch(config-if)#switchport mode access
```

```
Exiting....
Switch#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#int fa0/1
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#int fa0/4
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#int fa0/2
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#int fa0/5
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#int fa0/3
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 30
Switch(config-if)#int fa0/6
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 30
Switch(config-if)#end
Switch#
%SYS-5-CONFIG_I: Configured from console by console
```

```
%SYS-5-CONFIG_I: Configured from console by console

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,
Gig0/1, Gig0/2
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#
```

TUGAS 6A

1. **Informasi 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
```

2. **Informasi vlan id 20**

```
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
---- ----- ---------- ----- ------ ------ -------- ---- --------
------ ------
20   enet  100020     1500  -      -      -        -    -        0
0
```

3. **Informasi vlan id 30**

```
Switch#show vlan id 30

VLAN Name                             Status    Ports
---- -------------------------------- ---------
-------------------------------
30   zodiak3                          active    Fa0/3, Fa0/6

VLAN Type  SAID       MTU   Parent RingNo BridgeNo Stp  BrdgMode
Trans1 Trans2
---- ----- ---------- ----- ------ ------ -------- ---- --------
------ ------
30   enet  100030     1500  -      -      -        -    -        0
0
```

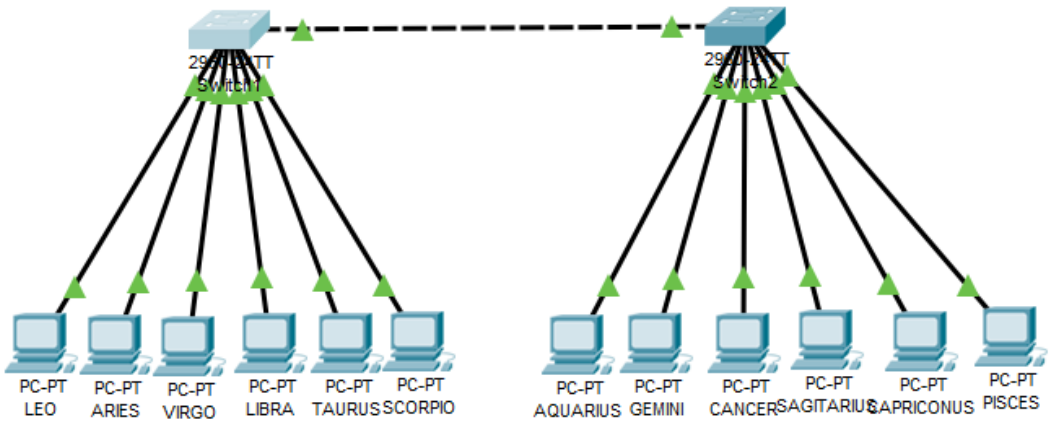
No	Variabel	Nilai
1.	Nomor VLAN	10
2.	Nama VLAN	Zodiak1
3.	Port	0/1 dan 0/4
4.	Status	Active
1.	Nomor VLAN	20
2.	Nama VLAN	Zodiak2
3.	Port	0/2 dan 0/5
4.	Status	Active
1.	Nomor VLAN	30
2.	Nama VLAN	Zodiak3
3.	Port	0/3 dan 0/6
4.	Status	Active

TUGAS 6B

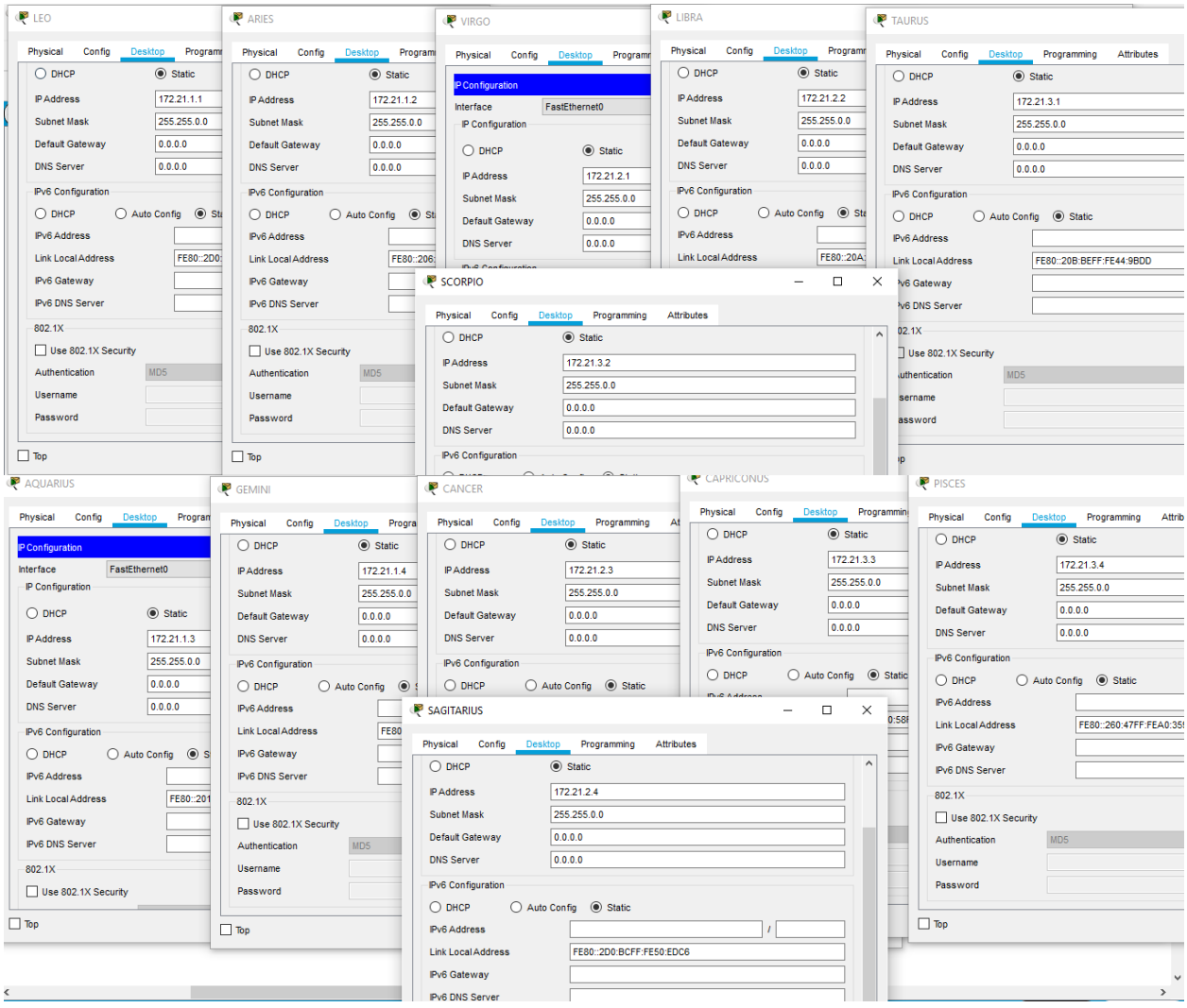
- Zodiak 1 mempunyai nomor vlan 10 mempunyai port 0/1 dan 0/4 berstatus aktif
- Zodiak 2 mempunyai nomor vlan 20 mempunyai port 0/2 dan 0/5 berstatus aktif
- Zodiak 3 mempunyai nomor vlan 30 mempunyai port 0/3 dan 0/6 berstatus aktif

2. Kegiatan 2. Topologi 2

a. Membuat topologi dan memberi nama pada SW 1 dan SW 2



b. Konfigurasi alamat ip pada PC SW 1 dan PC SW 2



c. lakukan langkh 4 dan 5 laboratorium 1

```
Switch(config)#vlan 10
Switch(config-vlan)#name zodiak1
Switch(config-vlan)#exit
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 fa0/1
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 fa0/3
Switch(config-if)#int fa 0/3
Switch(config-if)#sw mode access
Switch(config-if)#sw access vlan 20
Switch(config-if)#sw
% Incomplete command.
Switch(config-if)#sw mode access
```

d. Lakukan konfigurasi VLAN trunking pada switch 1

```
Switch(config-if)#int fa 0/3
Switch(config-if)#sw mode access
Switch(config-if)#sw access vlan 20
Switch(config-if)#sw
% Incomplete command.
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#conf t
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)#ex
Switch(config)#
```

```
Switch#conf t
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)#ex
Switch(config)#show int fa0/7 sw
                  ^
% Invalid input detected at '^' marker.

Switch(config)#ex
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#show interface fastethernet 0/7 switchport
Name: Fa0/7
Switchport: Enabled
Administrative Mode: dynamic auto
```

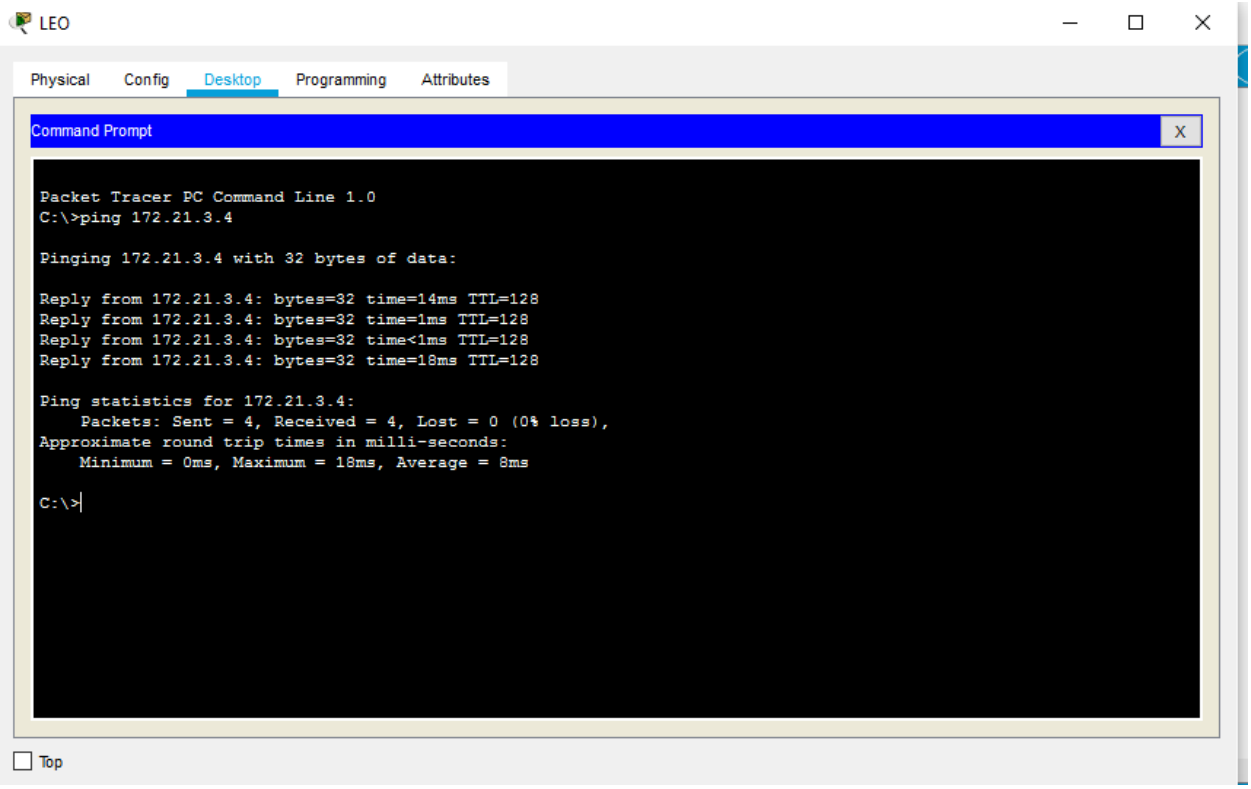
g. pada mode user atau mode privileged, lihat konfigurasi trunking yang telah dibuat

```
Switch#show interface fastethernet 0/7 switchport
Name: Fa0/7
Switchport: Enabled
Administrative Mode: dynamic auto
Operational Mode: static access
Administrative Trunking Encapsulation: dot1q
Operational Trunking Encapsulation: native
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
Capture Mode Disabled
Capture VLANs Allowed: ALL
Protected: false
 --More--
```

TUGAS 7A

- **Mengaktifkan switch port Fa0/7(Port yang digunakan trunk), Administrative mode menjadi trunk dan juga operasional mode trunk**

h. lakukan ping dari PC leo ke PC pisces



TUGAS 8A

Seharusnya berstatus RTO dikarenakan networknya berbeda jadi tidak bisa tehubung, tetapi saya tidak tau kenapa bisa mendapatkan status ‘reply’

i. Lakukan konfigurasi seperti langkah 6

```
%LINK-3-UPDOWN: Interface FastEthernet0/7, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/7,
changed state to down

%LINK-5-CHANGED: Interface FastEthernet0/7, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/7,
changed state to up

Switch(config)#interface fa 0/7
Switch(config-if)#switchport mode trunk

Switch(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/7,
changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/7,
changed state to up

Switch(config-if)#ex
```

j. pada mode user atau mode privileged, lihat konfigurasi vlan pada switch 2

```
VLAN Type  SAID       MTU   Parent RingNo BridgeNo Stp  BrdgMode
Trans1 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
 --More--
```

```
VLAN Name                             Status    Ports
---- -------------------------------- ---------
-------------------------------
1    default                          active    Fa0/1, Fa0/2, Fa0/3,
Fa0/4
                                               Fa0/5, Fa0/6, 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, Gig0/1
                                               Gig0/2
1002 fddi-default                     active
1003 token-ring-default               active
1004 fddinet-default                  active
1005 trnet-default                    active

VLAN Type  SAID       MTU   Parent RingNo BridgeNo Stp  BrdgMode
Trans1 Trans2
---- ----- ---------- ----- ------ ------ -------- ---- --------
------ ------
```

TUGAS 10A

pada langkah ini port port fast Ethernet belum terkonfigurasi ke dalam VLAN, dan VLANnya belum dibuat.

k.

– ping pc leo ke 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.

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=3ms 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 = 3ms, Average = 0ms
```

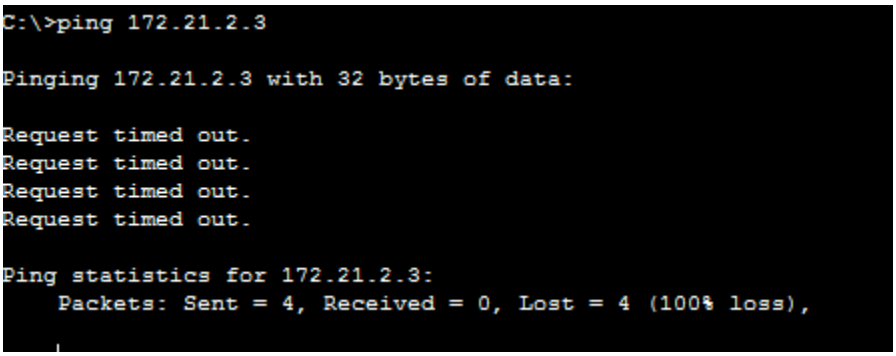
- ping pc leo ke pisces

```
C:\>ping 172.21.3.4

Pinging 172.21.3.4 with 32 bytes of data:

Reply from 172.21.3.4: bytes=32 time=12ms TTL=128
Reply from 172.21.3.4: bytes=32 time<1ms TTL=128
Reply from 172.21.3.4: bytes=32 time<1ms TTL=128
Reply from 172.21.3.4: bytes=32 time<1ms TTL=128

Ping statistics for 172.21.3.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 12ms, Average = 3ms
```

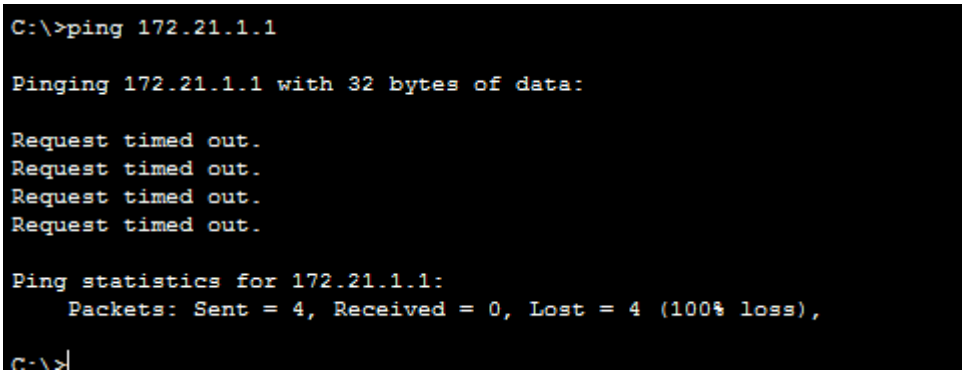
- ping pc libra ke pisces

```
Packet Tracer PC Command Line 1.0
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:\>
```

- ping pc libra ke cancer



- ping pc libra ke leo



TUGAS 12A

Hasilnya tetap RTO, dikarenakan network yang berbeda