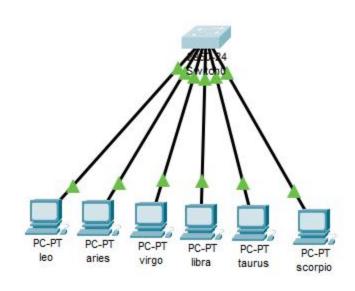
Nama : Sevtika Ichitia

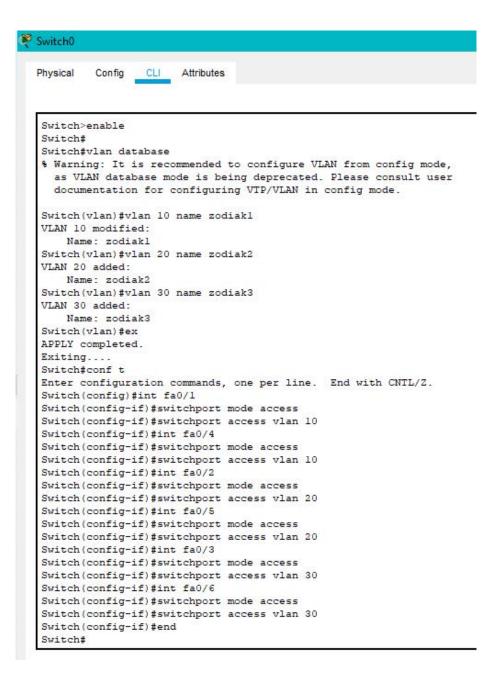
NIM : L200180158

Modul 4

Kegiatan 1



#### Switch 0

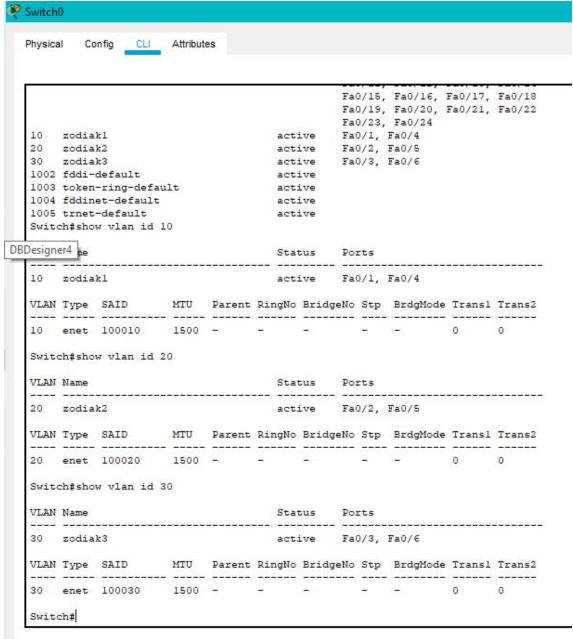




Physical Config CLI Attributes

	22000000				0.2030	2000	V 3750				
	Name				Sta	tus I					
1	default						Fa0/7, Fa0/8, Fa0/9, Fa0/10				
								Fa0/12,			
						1	Fa0/15,	Fa0/16,	Fa0/17,	Fa0/18	
						1	Fa0/19,	Fa0/20,	Fa0/21,	Fa0/22	
						1	Fa0/23,	Fa0/24			
10	zodia	k1			act:	ive H	Fa0/1,	Fa0/4			
20	zodia	k2				ive I					
30	zodia	k3			act:	ive I	Fa0/3,	Fa0/6			
1002	fddi-	default			act:	ive					
1003	token	-ring-defa	ault		act:	ive					
777777	578797733	et-default	5		act:	ive					
100 Sept.	0.000	-default			act:	ive					
Swit	ch#sho	w vlan id	10								
VLAN	Name				Sta	tus I	Ports				
10	zodia	kl			act	ive I	Fa0/1,	Fa0/4			
VLAN	Туре	SAID	MTU			Bridgel		BrdgMode	Transl	Trans2	
10	enet	100010	1500					1-1	0	0	
Swit	ch#sho	w vlan id	20								
VLAN	Name				Star	tus I	Ports				
20	zodia	k2			act:	ive I	Fa0/2,	Fa0/5			
VLAN	Type	SAID	MTU	Parent	RingNo	Bridgel	No Stp	BrdgMode	Transl	Trans2	
20	enet	100020	1500	5	 				0	0	
Swite	ch#sho	w vlan id	30								

Ctrl+F6 to exit CLI focus



Ctrl+F6 to exit CLI focus

## Tugas 6A

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

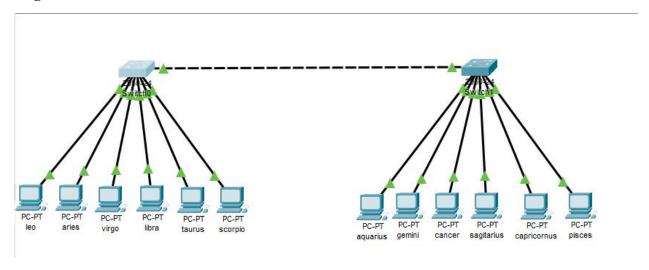
No.	Variabel	Nilai
1	Nomor VLAN	VLAN 20
2	Nama VLAN	Zodiak2
3	Port	Fa0/2, Fa0/5
4	Status	active

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

Tugas 6B

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

# Kegiatan 2



#### Switch 0

```
Switch0
           Config CLI Attributes
  Physical
   Switch>enable
   Switch#
   Switch#vlan database
   % Warning: It is recommended to configure VLAN from config mode,
    as VLAN database mode is being deprecated. Please consult user
     documentation for configuring VTP/VLAN in config mode.
   Switch(vlan) #vlan 10 name zodiakl
   VLAN 10 added:
       Name: zodiakl
   Switch(vlan) #vlan 20 name zodiak2
   VLAN 20 added:
DBDesigner4 : zodiak2
lan)#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
   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) #ex
   Switch (config) #ex
   Switch#
  Ctrl+F6 to exit CLI focus
```

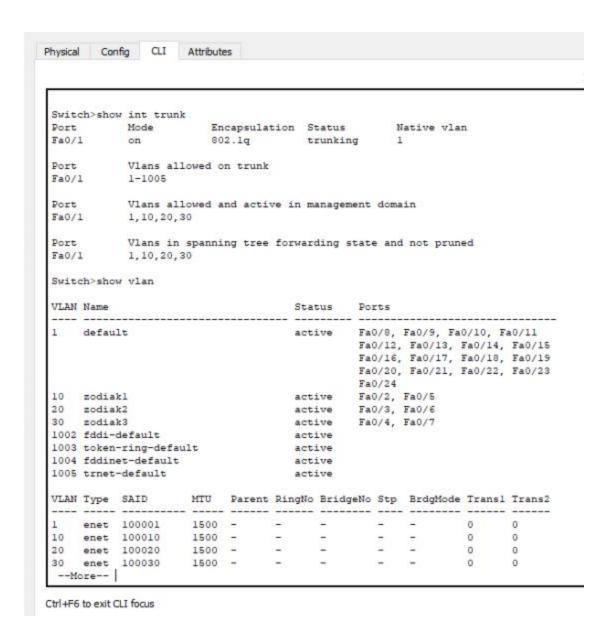
```
Switch(config-if) #
Switch(config-if) #int fa0/1
Switch(config-if) #switchport mode trunk

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>show int fa0/1 switchport Name: Fa0/1 Switchport: Enabled Administrative Mode: trunk Operational Mode: trunk Administrative Trunking Encapsulation: dotlq Operational Trunking Encapsulation: dotlq 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: dotlq 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 int trunk Port Mode Encapsulation Status Native vlan Fa0/1 802.1q trunking Vlans allowed on trunk Port Fa0/1 1-1005 Port Vlans allowed and active in management domain 1,10,20,30 Fa0/1 Vlans in spanning tree forwarding state and not pruned Fa0/1

Ctrl+F6 to exit CLI focus

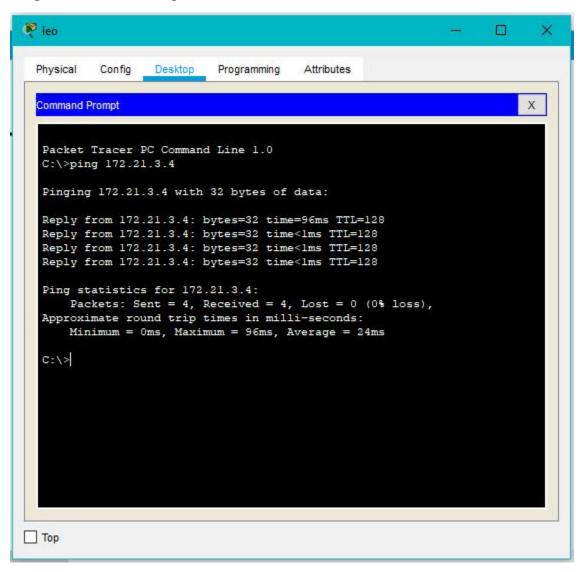
Physical Config CLI Attributes



#### Tugas 7A

Hasil dari Trunking pada FastEnthernet 0/1 adalah kita telah mengijinkan VLAN dari SW0 untuk memperluas VLANnya dengan jalur tunggal yaitu pada port 0/1 sebagai jalur utamanya atau bisa dibilang menghubungkan antar device dengan jalur dari port Trunk(Fa0/1).

## Ping dari PC leo ke PC pisces



Hasilnya RTO karena walaupun sudah di-Trunking kemudian menyampungkan sesama VLAN ID tapi kalau networknya berbeda tidak bisa terhubung.

#### **Tugas 8A**

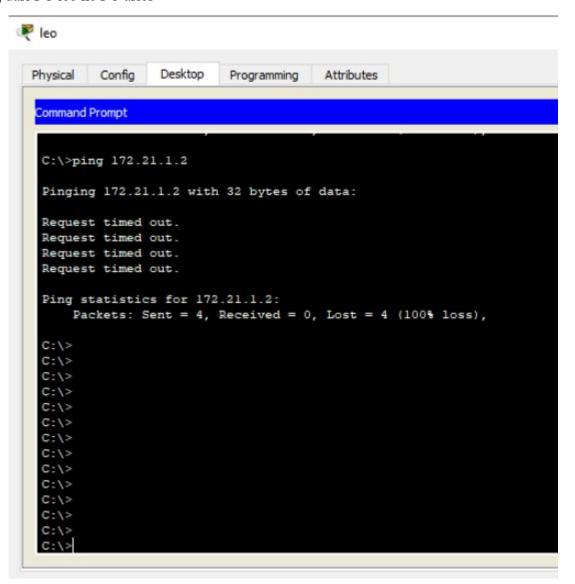
```
Physical Config CLI
                    Attributes
 Switch>show int fa0/1 switchport
Name: Fa0/1
Switchport: Enabled
Administrative Mode: trunk
Operational Mode: trunk
Administrative Trunking Encapsulation: dotlq
Operational Trunking Encapsulation: dotlg
Negotiation of Trunking: On
Access Mode VLAN: 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: dotlq
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
Switch>show int trunk
                         Encapsulation Status
Port
         Mode
                                                     Native vlan
 Fa0/1
                         802.1q
                                        trunking
 Port
            Vlans allowed on trunk
 Fa0/1
            1-1005
            Vlans allowed and active in management domain
 Port
Fa0/1
            1,10,20,30
 Port
            Vlans in spanning tree forwarding state and not pruned
 Fa0/1
            1,10,20,30
 Switch>show vlan
```

Ctrl+F6 to exit CLI focus

	<del>coca.</del>	10190									
Swite	ch>sho	w int trum	ık								
Port		Mode	En	capsulat	tion S	tatus	N	ative vla	n		
Fa0/	1.	on	80	2.1q	t	runking	1				
Port		Vlans al	llowed o	n trunk							
Fa0/	1	1-1005									
Port		Vlans al	llowed a	nd activ	ve in m	anageme	nt doma	in			
Fa0/:	1	1,10,20,	30								
Port		Vlans in	-	ng tree	forwar	ding st	ate and	not prun	ed		
Fa0/	1	1,10,20,	30								
Swite	ch>sho	w vlan									
VLAN	Name				Sta	tus	Ports				
	4-4	default				active F		Fa0/8, Fa0/9, Fa0/10, Fa0/11			
1	derau	14			act	TAG	au/0,	rau/s, ra	of to, to	AU/ AA	
1	derau	14			act			Fa0/13,			
1	derau	16			act		Fa0/12,		Fa0/14,	Fa0/15	
1	derau	lt.			acu		Fa0/12, Fa0/16,	Fa0/13,	Fa0/14, Fa0/18,	Fa0/15	
1	derau	It					Fa0/12, Fa0/16, Fa0/20, Fa0/24	Fa0/13, Fa0/17, Fa0/21,	Fa0/14, Fa0/18,	Fa0/15	
10	zodia	kl			act	ive	Fa0/12, Fa0/16, Fa0/20, Fa0/24 Fa0/2,	Fa0/13, Fa0/17, Fa0/21,	Fa0/14, Fa0/18,	Fa0/15	
10	zodia zodia	k1 k2			act	ive	Fa0/12, Fa0/16, Fa0/20, Fa0/24 Fa0/2, Fa0/3,	Fa0/13, Fa0/17, Fa0/21, Fa0/5 Fa0/6	Fa0/14, Fa0/18,	Fa0/15	
10 20 30	zodia zodia zodia	k1 k2 k3			act	ive	Fa0/12, Fa0/16, Fa0/20, Fa0/24 Fa0/2,	Fa0/13, Fa0/17, Fa0/21, Fa0/5 Fa0/6	Fa0/14, Fa0/18,	Fa0/15	
10 20 30 1002	zodia zodia zodia fddi-	kl k2 k3 default			act act act	ive ive ive	Fa0/12, Fa0/16, Fa0/20, Fa0/24 Fa0/2, Fa0/3,	Fa0/13, Fa0/17, Fa0/21, Fa0/5 Fa0/6	Fa0/14, Fa0/18,	Fa0/15	
10 20 30 1002	zodia zodia zodia fddi- token	kl k2 k3 default -ring-defa			act act act	ive ive ive ive	Fa0/12, Fa0/16, Fa0/20, Fa0/24 Fa0/2, Fa0/3,	Fa0/13, Fa0/17, Fa0/21, Fa0/5 Fa0/6	Fa0/14, Fa0/18,	Fa0/15	
10 20 30 1002 1003	zodia zodia zodia fddi- token fddin	kl k2 k3 default -ring-defa et-default			act act act	ive ive ive ive	Fa0/12, Fa0/16, Fa0/20, Fa0/24 Fa0/2, Fa0/3,	Fa0/13, Fa0/17, Fa0/21, Fa0/5 Fa0/6	Fa0/14, Fa0/18,	Fa0/15	
10 20 30 1002 1003	zodia zodia zodia fddi- token fddin	kl k2 k3 default -ring-defa			act act act	ive ive ive ive ive ive	Fa0/12, Fa0/16, Fa0/20, Fa0/24 Fa0/2, Fa0/3,	Fa0/13, Fa0/17, Fa0/21, Fa0/5 Fa0/6	Fa0/14, Fa0/18,	Fa0/15	
10 20 30 1002 1003 1004 1005	zodia zodia zodia fddi- token fddin trnet	kl k2 k3 default -ring-defa et-default		Parent	act act act act act	ive ive ive ive ive ive	Fa0/12, Fa0/16, Fa0/20, Fa0/24 Fa0/2, Fa0/3, Fa0/4,	Fa0/13, Fa0/17, Fa0/21, Fa0/5 Fa0/6 Fa0/7	Fa0/14, Fa0/18, Fa0/22,	Fa0/15 Fa0/15 Fa0/23	
10 20 30 1002 1003 1004 1005 VLAN	zodia zodia zodia fddi- token fddin trnet	kl k2 k3 default -ring-defa et-default -default	MTU		act act act act act	ive ive ive ive ive ive	Fa0/12, Fa0/16, Fa0/20, Fa0/24 Fa0/2, Fa0/3, Fa0/4,	Fa0/13, Fa0/17, Fa0/21, Fa0/5 Fa0/6 Fa0/7	Fa0/14, Fa0/18, Fa0/22, Trans1	Fa0/18 Fa0/19 Fa0/23	
10 20 30 1002 1003 1004 1005 VLAN	zodia zodia zodia fddi- token fddin trnet Type  enet	kl k2 k3 default -ring-defa et-default -default SAID	MTU 1500		act act act act act act	ive ive ive ive ive ive	Fa0/12, Fa0/16, Fa0/20, Fa0/24 Fa0/2, Fa0/3, Fa0/4,	Fa0/13, Fa0/17, Fa0/21, Fa0/5 Fa0/6 Fa0/7	Fa0/14, Fa0/18, Fa0/22, Trans1	Fa0/15 Fa0/19 Fa0/23 Trans2	
10 20 30 1002 1003 1004 1005 VLAN	zodia zodia zodia fddi- token fddin trnet Type  enet enet	kl k2 k3 default -ring-defa et-default -default SAID 	MTU 1500 1500	-	act act act act act act	ive ive ive ive ive ive	Fa0/12, Fa0/16, Fa0/20, Fa0/24 Fa0/2, Fa0/3, Fa0/4,	Fa0/13, Fa0/17, Fa0/21, Fa0/5 Fa0/6 Fa0/7	Fa0/14, Fa0/18, Fa0/22, Trans1	Fa0/15 Fa0/19 Fa0/23 Trans2	
10 20 30 1002 1003 1004 1005 VLAN  1 10 20	zodia zodia zodia fddi- token fddin trnet Type enet enet enet	kl k2 k3 default -ring-defa et-default -default SAID	MTU 1500 1500 1500	 	act act act act act act	ive ive ive ive ive ive	Fa0/12, Fa0/16, Fa0/20, Fa0/24 Fa0/2, Fa0/3, Fa0/4,	Fa0/13, Fa0/17, Fa0/21, Fa0/5 Fa0/6 Fa0/7	Fa0/14, Fa0/18, Fa0/22, Trans1	Fa0/15 Fa0/15 Fa0/23 Trans2	

Ctrl+F6 to exit CLI focus

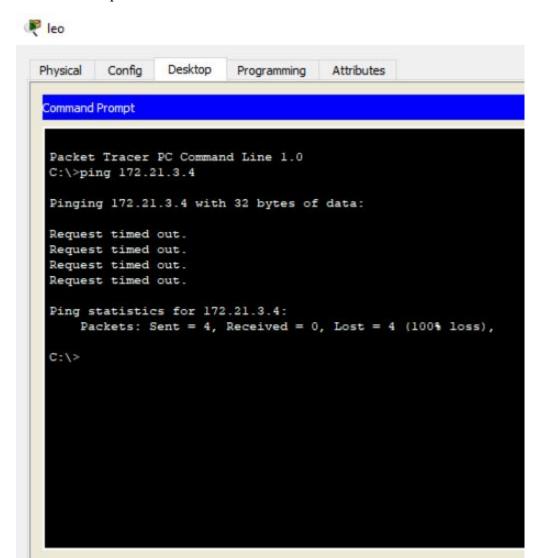
# **Tugas 10A**Ping dari PC leo ke PC aries



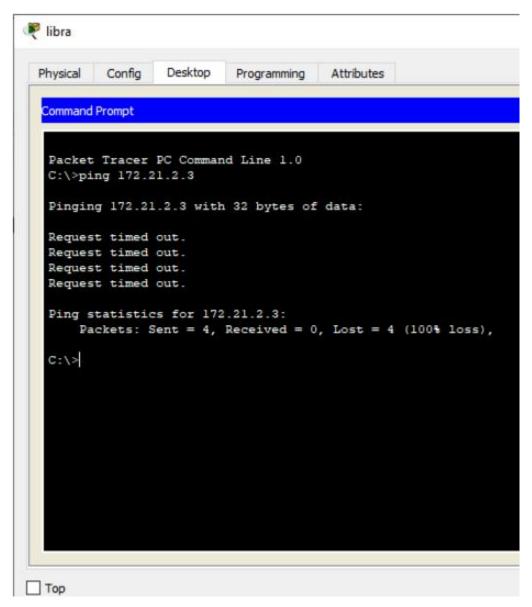
## Ping dari PC leo ke PC aquarius

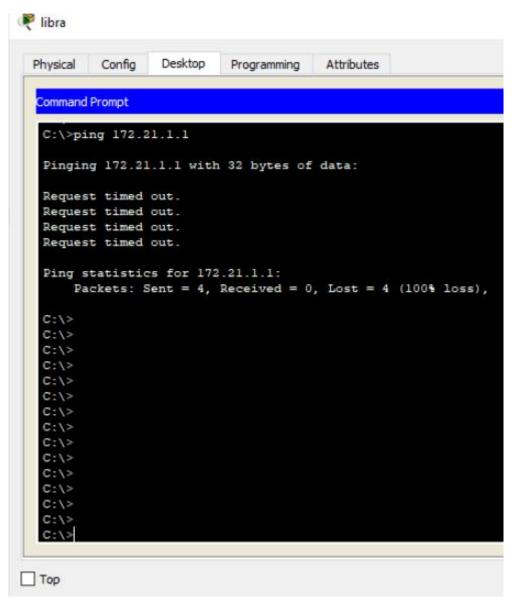
```
№ leo
                   Desktop
  Physical
           Config
                             Programming
                                          Attributes
   Command Prompt
   C:\>ping 172.21.1.3
   Pinging 172.21.1.3 with 32 bytes of data:
   Request timed out.
   Request timed out.
   Request timed out.
   Request timed out.
   Ping statistics for 172.21.1.3:
       Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
   C:\>
   C:\>
   C:\>
   C:\>
   C:1>
   C:\>
   C:\>
   C:\>
   C:\>
```

## Ping dari PC leo ke PC pisces



## Ping dari PC libra ke PC cancer





#### Tugas 12A:

- Dari langkah 8 dapat disampaikan bahwa seluruh device yang sudah dikonfigurasi hasil dari pengujian koneksi (ping) menunjukkan bahwa device yang dalam jaringan yang sama namun memiliki perbedaan dalam VLAN menunjukkan hasil RTO, dalam network yang sama namun dalam VLAN yang berbeda juga menunjukkan hasil RTO.
- Untuk hasil pengajian koneksi (ping) yang reply hanyalah dalam device dengan spesifikasi jaringan yang sama dan dalam VLAN yang sama perlu adanya konfigurasi gateway dalam switch agar dalam setiap device dapat terkoneksi satu dengan yang lain.