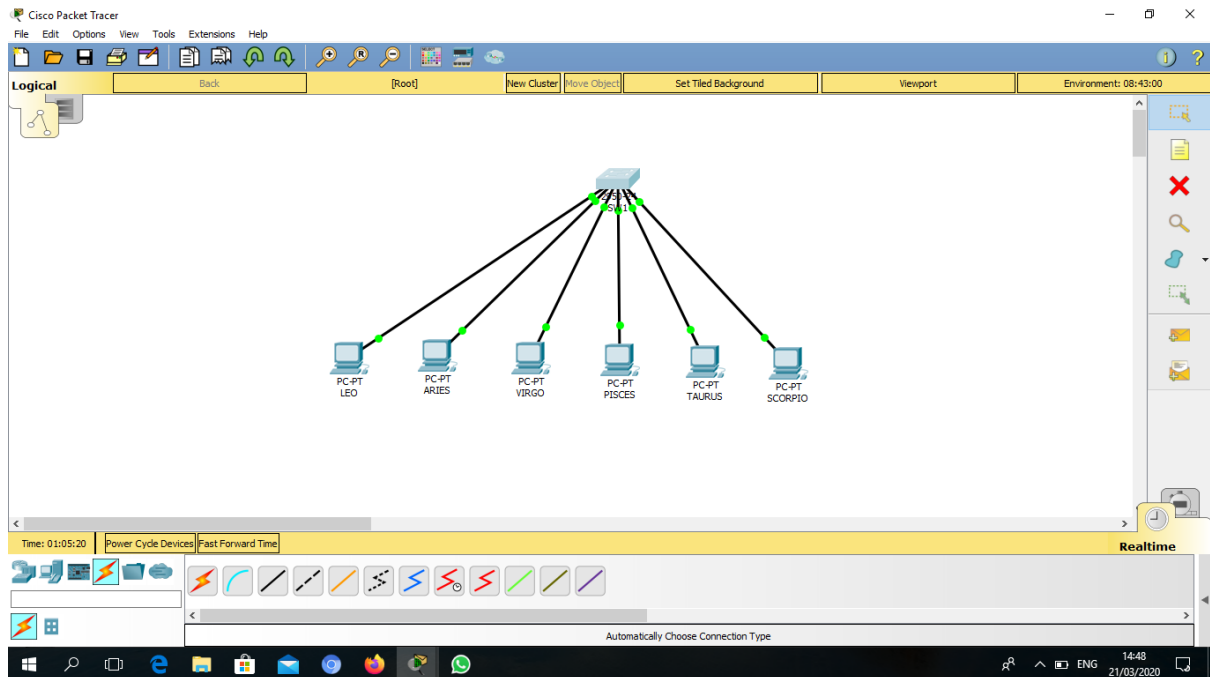


Nama : Anisa Ghoyatul Firdaus

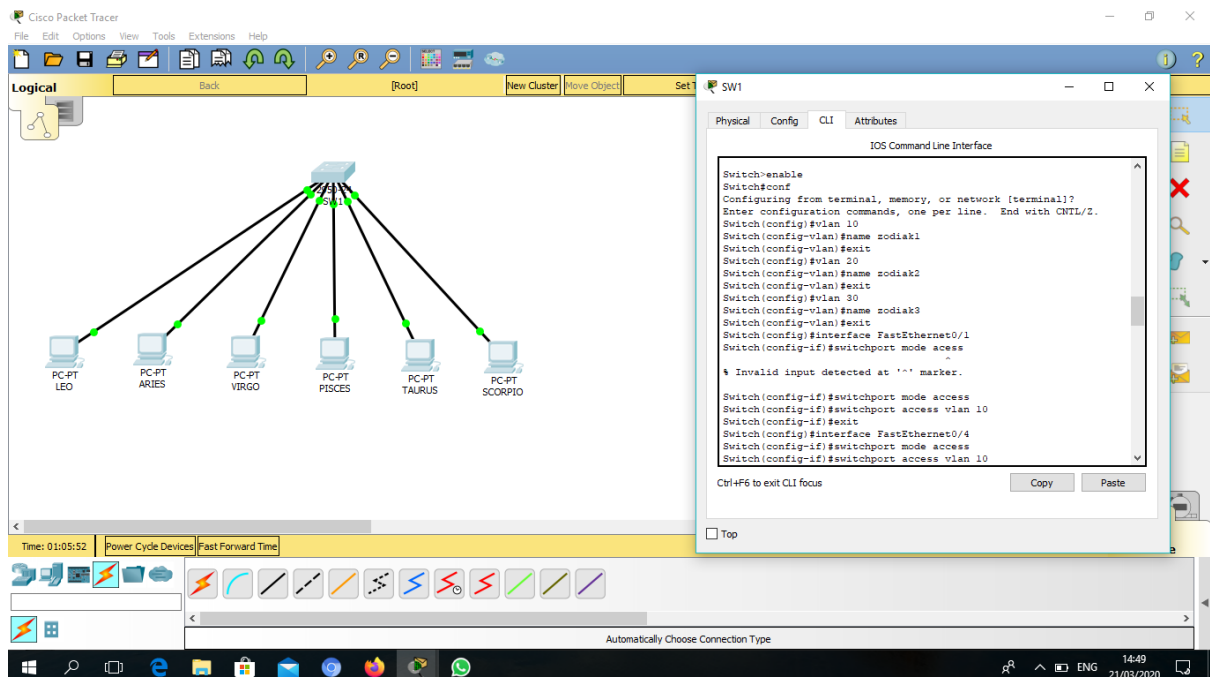
NIM : L200180135

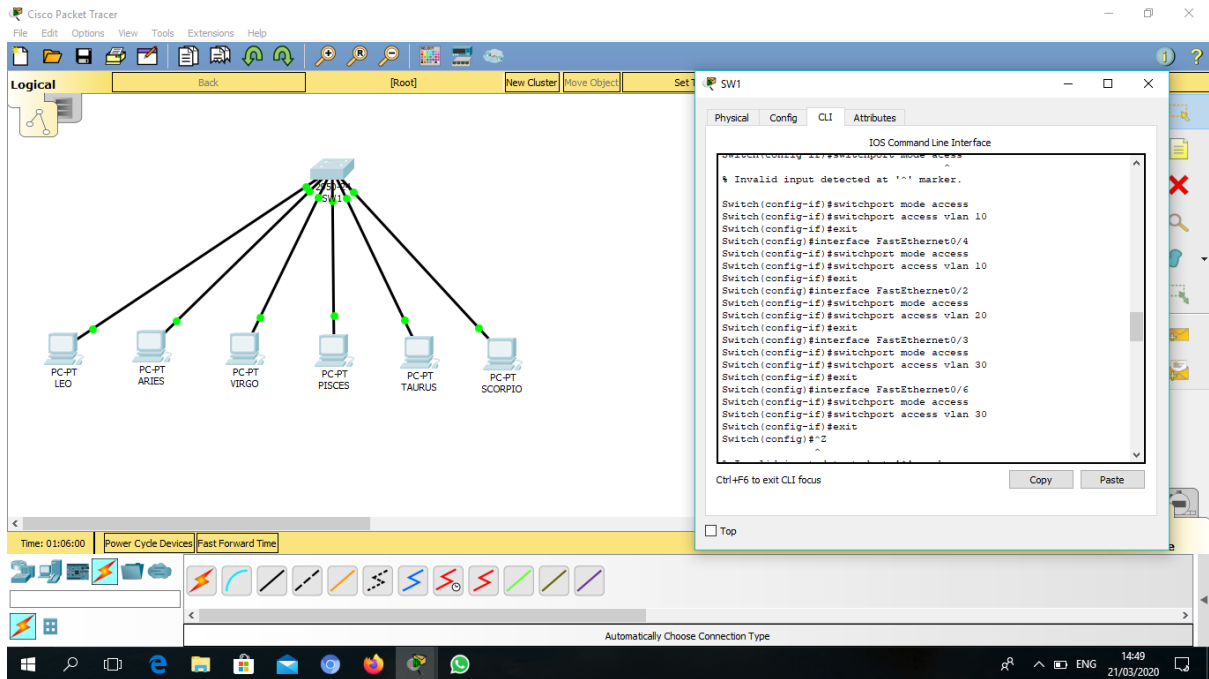
Kelas : D

Latihan 1

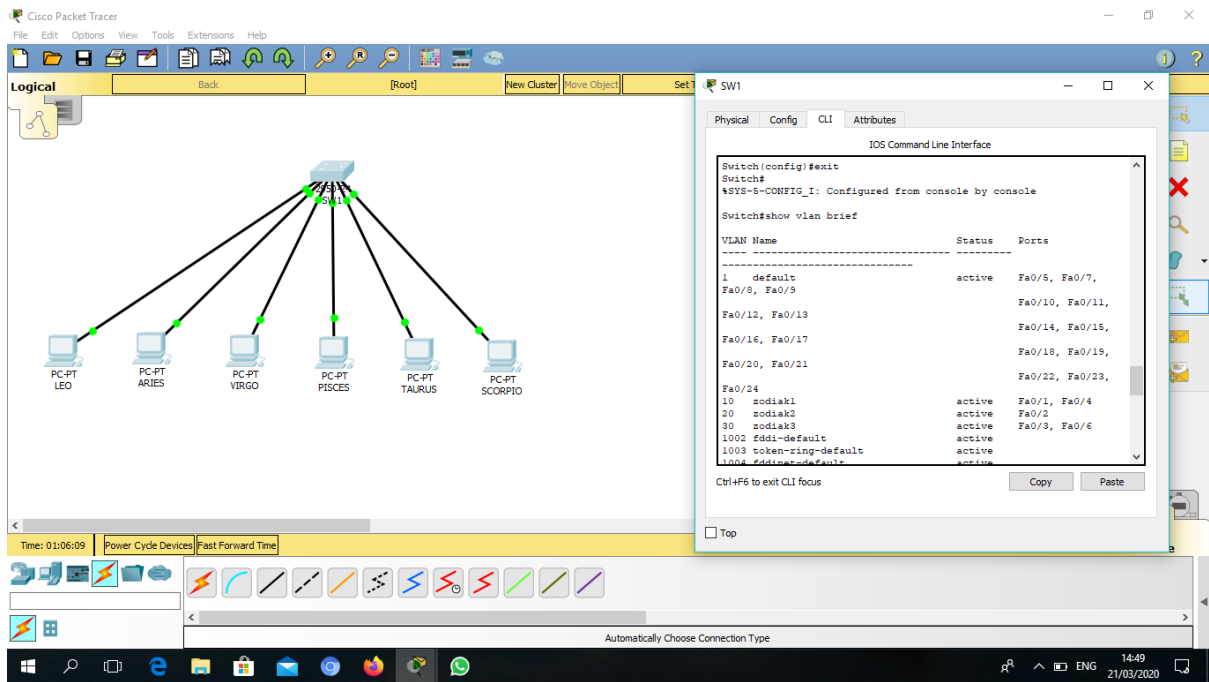


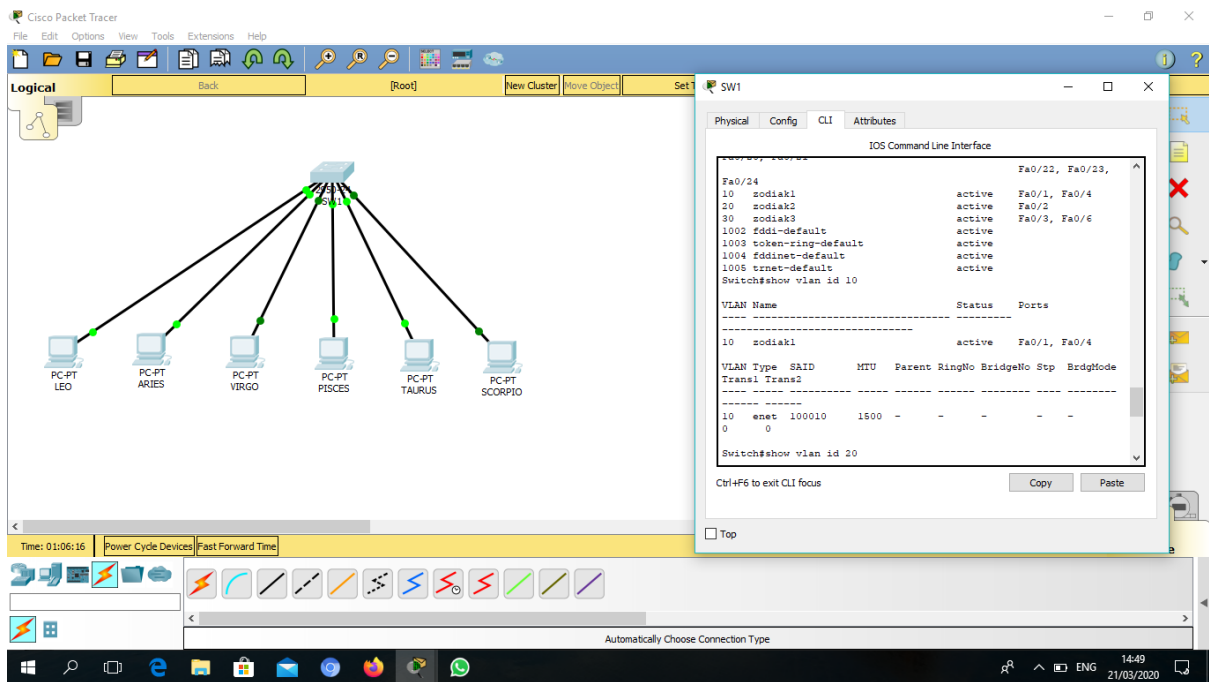
Konfigurasi switch



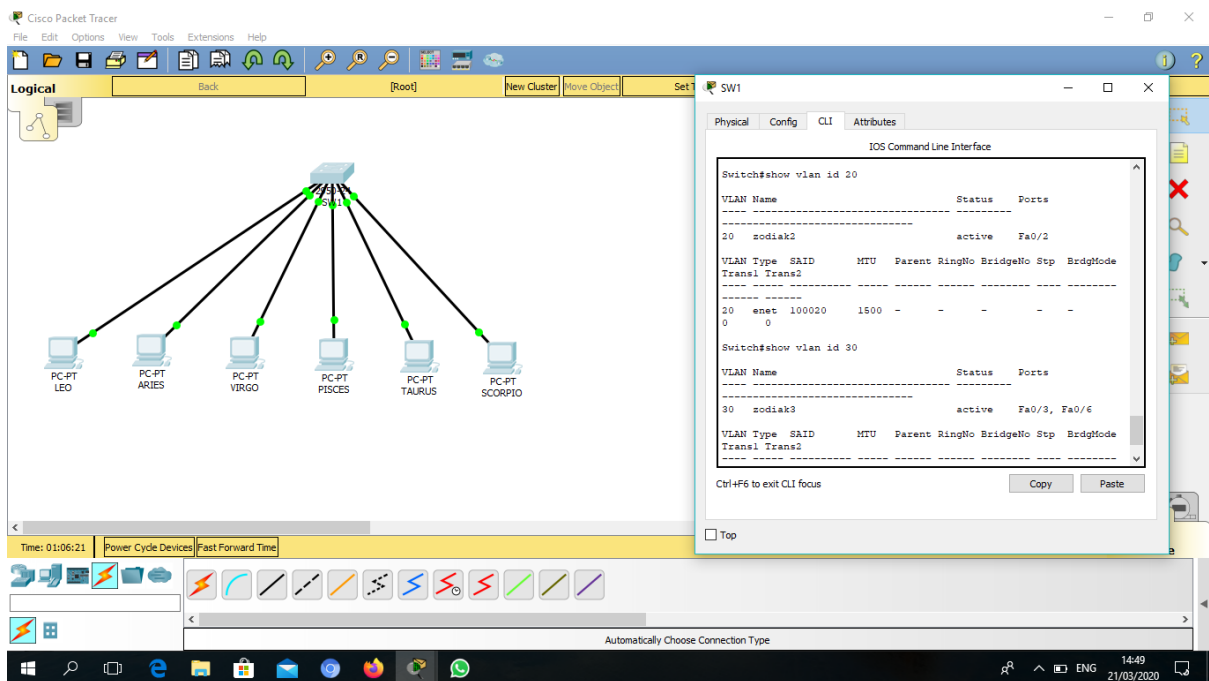


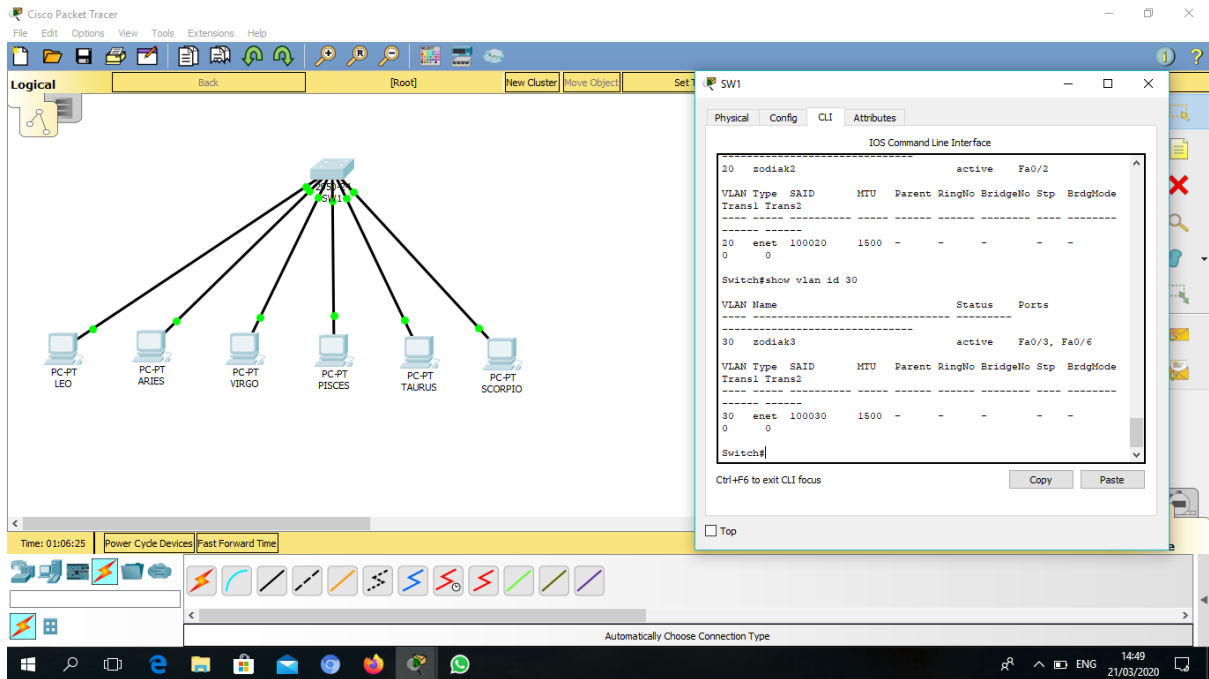
Informasi vlan





Informasi vlan 10, 20, 30





Tugas 6A : Informasi masing-masing vlan

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

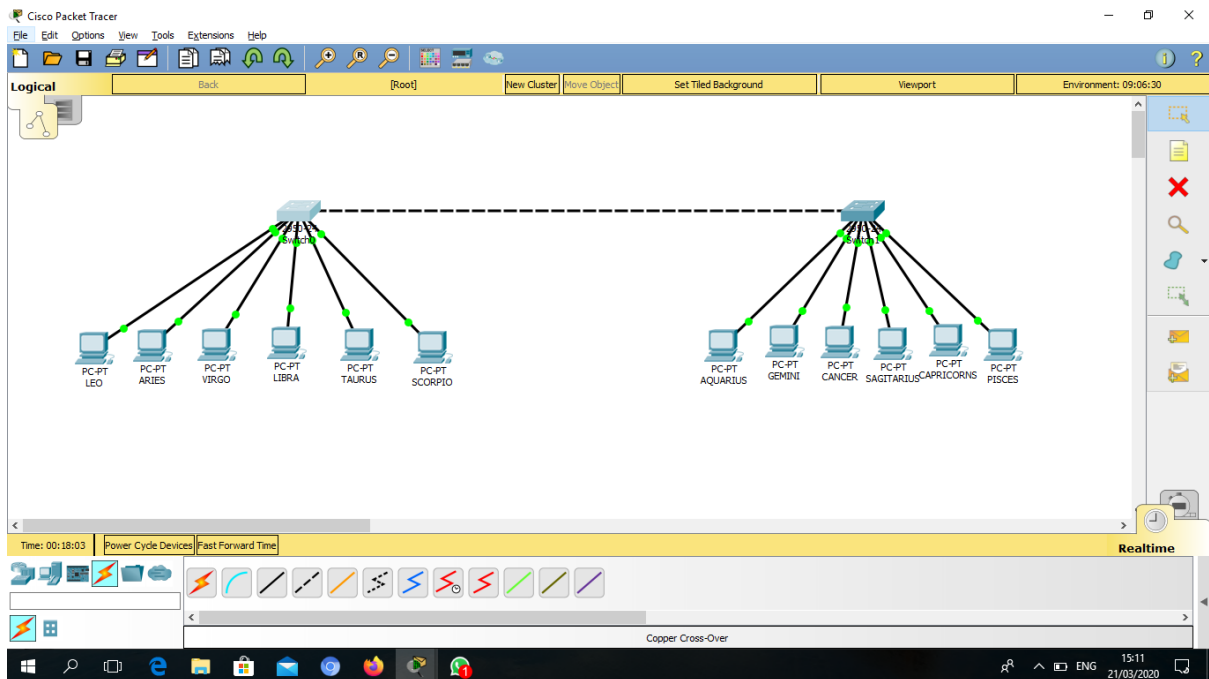
No.	Variable	Nilai
1.	Nomor VLAN	20
2.	Nama VLAN	Zodiak2
3.	Port	Fa0/2
4.	Status	Active

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

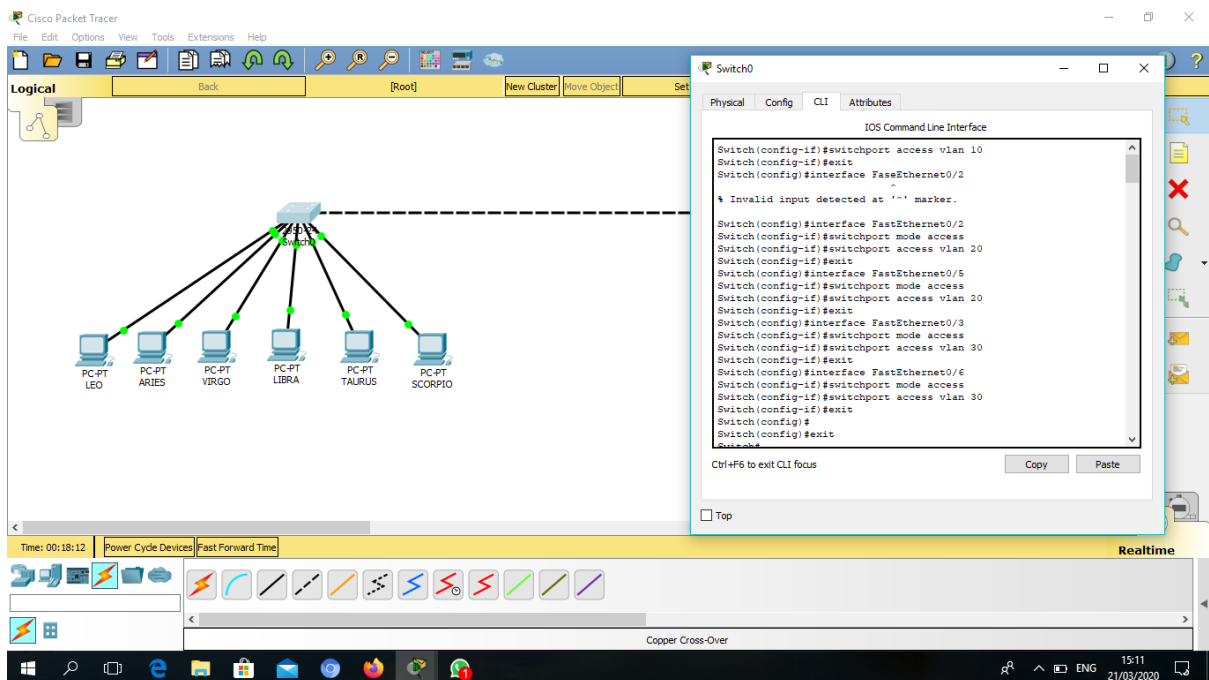
Tugas 6B : Penjelasan dari table 6A

Terdapat tiga nomor pada VLAN yaitu, VLAN 10 (Zodiak1), VLAN 20 (Zodiak2) dan VLAN 30 (Zodiak3). Setiap VLAN ber-status aktif. Pada VLAN 10 memiliki port Fa0/1 dan Fa0/4, VLAN 20 memiliki port Fa0/2 dan VLAN 30 memiliki port Fa0/3 dan Fa0/6

Latihan 2



Konfigurasi switch0



Konfigurasi VLAN trunking

The screenshot shows the Cisco Packet Tracer interface. The network topology consists of a central switch connected to six PCs labeled PC-PT LEO, PC-PT ARIES, PC-PT VIRGO, PC-PT LIBRA, PC-PT TAURUS, and PC-PT SCORPIO. The CLI window for Switch0 is open, showing the following configuration:

```
Switch>enable
Switch#config term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface fa0/24
Switch(config-if)#switchport mode trunk
Switch(config-if)#switchport trunk allowed vlan all
Switch(config-if)#exit
Switch(config)#exit
Switch#
*SYS-5-CONFIG_I: Configured from console by console

Switch#show interface FastEthernet0/24 switchport
Name: Fa0/24
Switchport: Enabled
Administrative Mode: trunk
Operational Mode: down
Administrative Trunking Encapsulation: dotiq
Operational Trunking Encapsulation: dotiq
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
```

The screenshot shows the same Cisco Packet Tracer interface. The CLI window for Switch0 is open, displaying the output of the 'show interface FastEthernet0/24 switchport' command:

```
Switch#show interface FastEthernet0/24 switchport
Name: Fa0/24
Switchport: Enabled
Administrative Mode: trunk
Operational Mode: down
Administrative Trunking Encapsulation: dotiq
Operational Trunking Encapsulation: dotiq
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: dotiq
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
```

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Back [Root] New Cluster Move Object Set

PC-PT LEO PC-PT ARIES PC-PT VIRGO PC-PT LIBRA PC-PT TAURUS PC-PT SCORPIO

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

```
Switch#show vlan
```

VLAN Name	Status	Ports
1 default	active	Fa0/7, Fa0/8, Fa0/9, Fa0/10, Fa0/13, Fa0/14, Fa0/15, Fa0/16, Fa0/17, Fa0/18, Fa0/19, Fa0/20, Fa0/21, Fa0/22
10 zodiak1	active	Fa0/23, Fa0/24
20 zodiak2	active	Fa0/1, Fa0/4
30 zodiak3	active	Fa0/2, Fa0/5
1002 fddi-default	active	Fa0/3, Fa0/6
1003 tokenring-default	active	
1004 fddinet-default	active	
1005 trnet-default	active	

VLAN Type SAID MTU Parent RingNo BridgeNo Stp BrgdMode

Trans1 Trans2

Ctrl+F6 to exit CLI focus

Copy Paste

Top

Time: 00:18:34 Power Cycle Devices Fast Forward Time

Realtime

Copper Cross-Over

15:12 21/03/2020

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Back [Root] New Cluster Move Object Set

PC-PT LEO PC-PT ARIES PC-PT VIRGO PC-PT LIBRA PC-PT TAURUS PC-PT SCORPIO

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

```
1004 fddinet-default active
1005 trnet-default active
```

VLAN Name	Status	Ports
1 default	active	Fa0/7, Fa0/8, Fa0/9, Fa0/10, Fa0/13, Fa0/14, Fa0/15, Fa0/16, Fa0/17, Fa0/18, Fa0/19, Fa0/20, Fa0/21, Fa0/22
10 zodiak1	active	Fa0/23, Fa0/24
20 zodiak2	active	Fa0/1, Fa0/4
30 zodiak3	active	Fa0/2, Fa0/5
1002 fddi-default	active	Fa0/3, Fa0/6
1003 tokenring-default	active	
1004 fddinet-default	active	
1005 trnet-default	active	

VLAN Type SAID MTU Parent RingNo BridgeNo Stp BrgdMode

Trans1 Trans2

Ctrl+F6 to exit CLI focus

Copy Paste

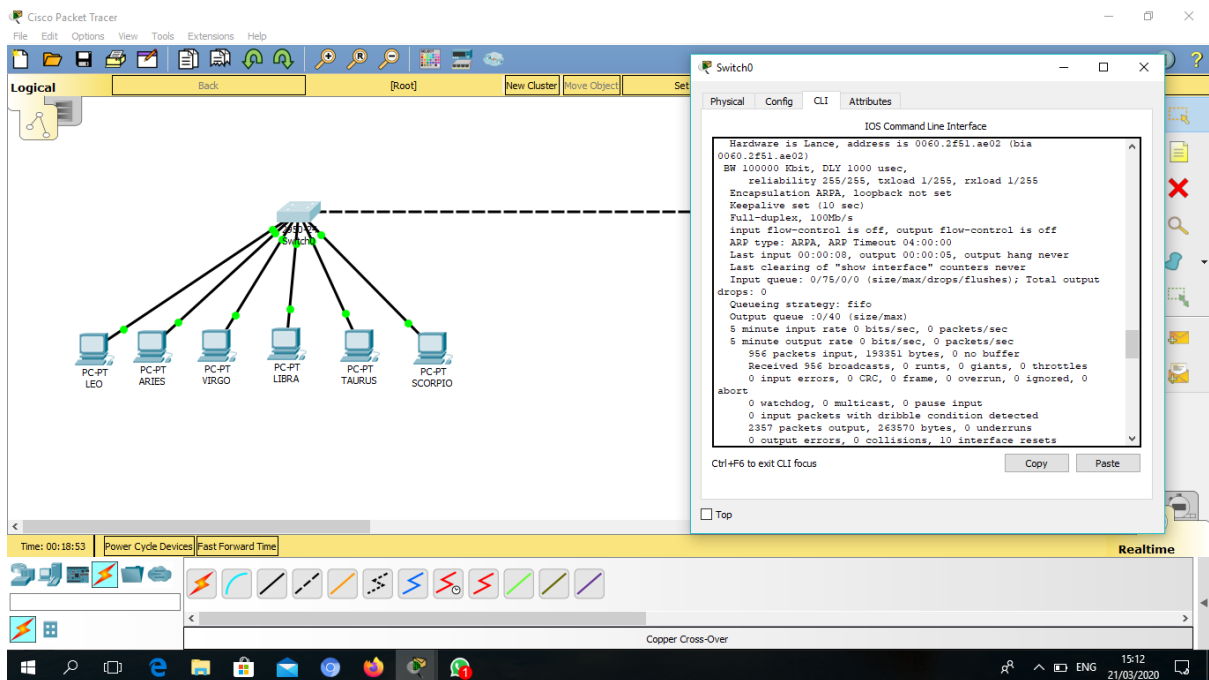
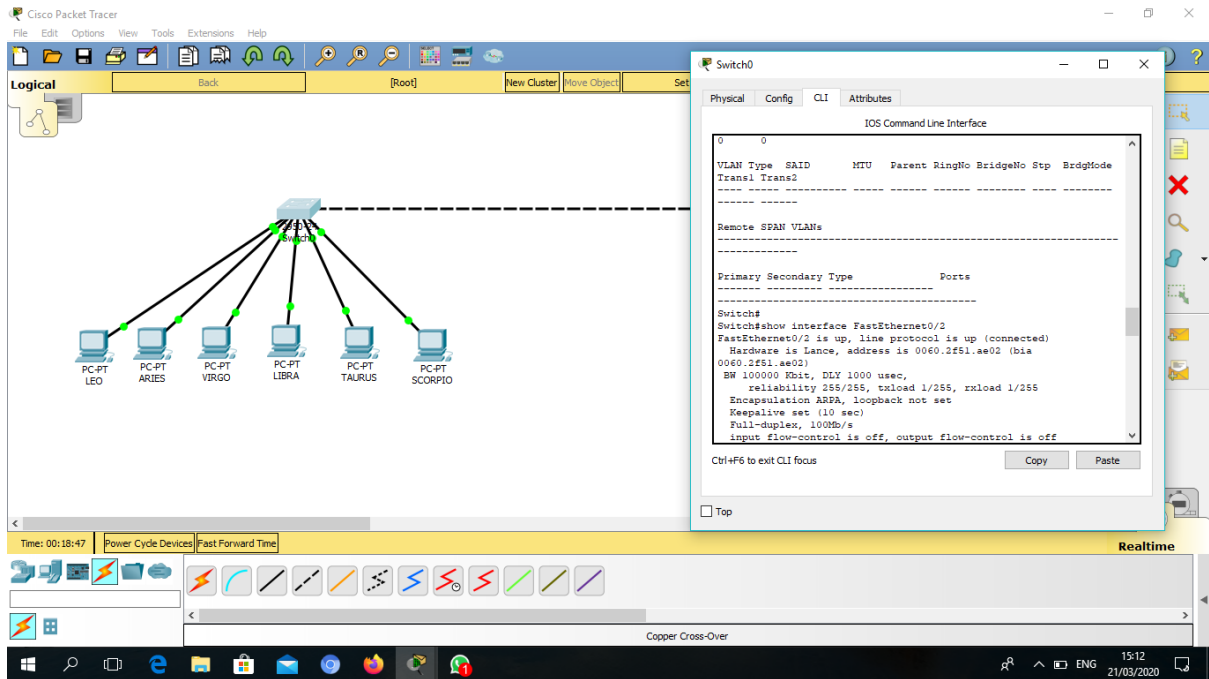
Top

Time: 00:18:41 Power Cycle Devices Fast Forward Time

Realtime

Copper Cross-Over

15:12 21/03/2020



Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Back [Root] New Cluster Move Object Set

PC-PT LEO PC-PT ARIES PC-PT VIRGO PC-PT LIBRA PC-PT TAURUS PC-PT SCORPIO

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

```
Switch0>
Switch0#
Switch0#show vlan
```

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

Ctrl+F6 to exit CLI focus

Copy Paste

Top

Time: 00:19:00 Power Cycle Devices Fast Forward Time

Realtime

Copper Cross-Over

15:12 21/03/2020

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Back [Root] New Cluster Move Object Set

PC-PT LEO PC-PT ARIES PC-PT VIRGO PC-PT LIBRA PC-PT TAURUS PC-PT SCORPIO

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

```
Switch0>
Switch0#
Switch0#show vlan
```

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
10 zodiak1	active	Fa0/23, Fa0/24
20 zodiak2	active	Fa0/1, Fa0/4
30 zodiak3	active	Fa0/2, Fa0/5
1002 fddi-default	active	Fa0/3, Fa0/6
1003 token-ring-default	active	
1004 fddinet-default	active	
1005 trinet-default	active	

VLAN Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BridgMode
Trans1	Trans2						

Ctrl+F6 to exit CLI focus

Copy Paste

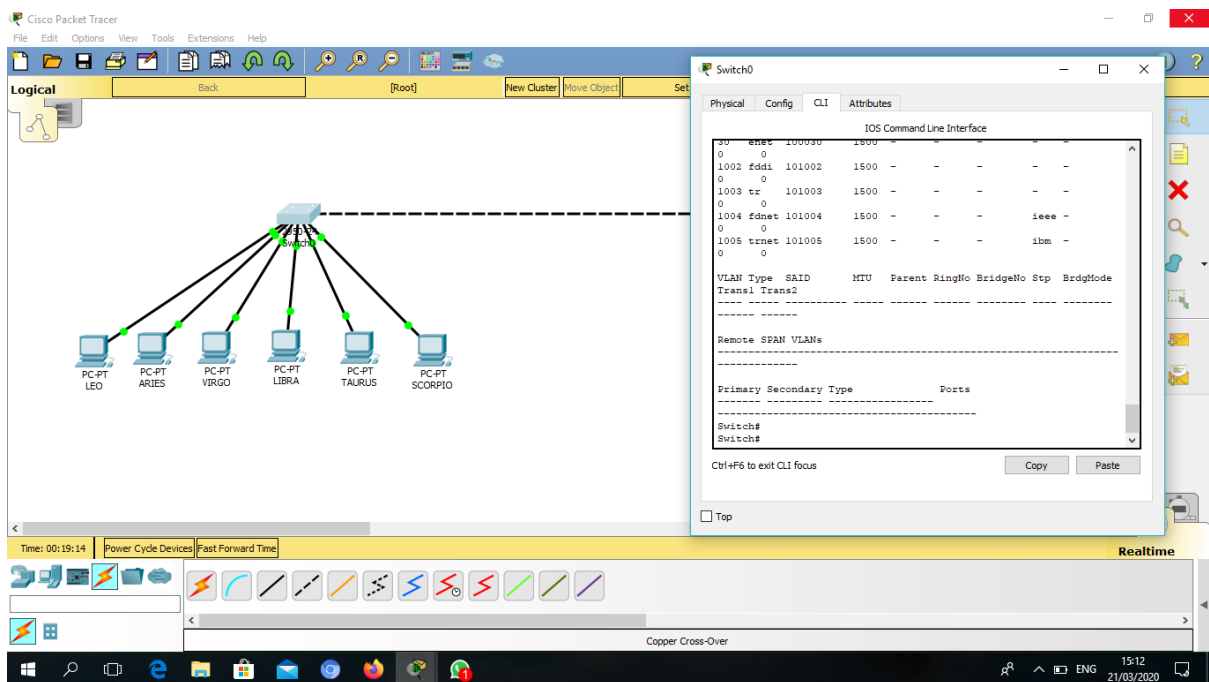
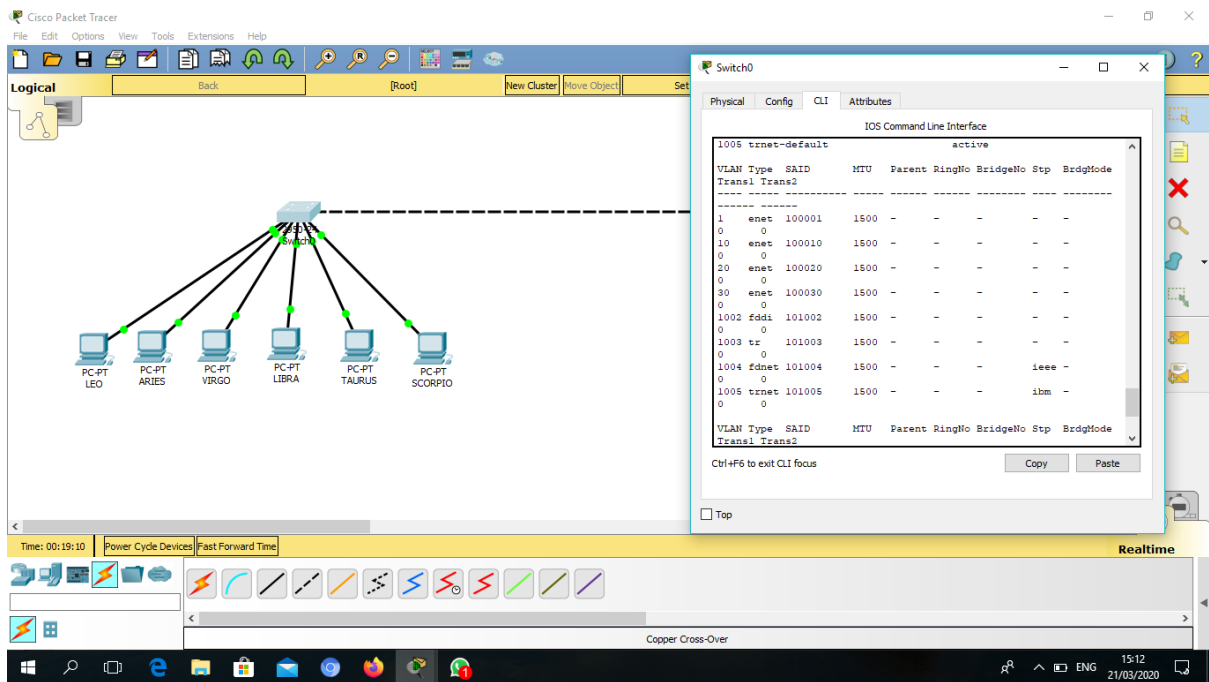
Top

Time: 00:19:04 Power Cycle Devices Fast Forward Time

Realtime

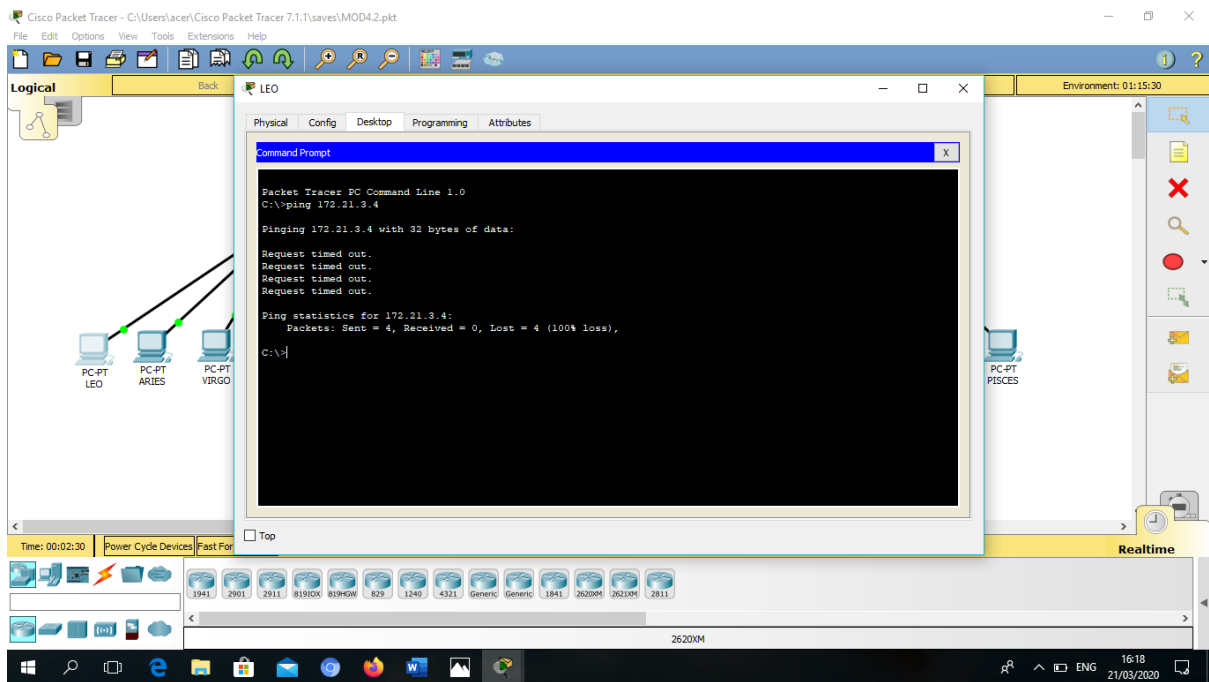
Copper Cross-Over

15:12 21/03/2020



Tugas 7A : Penjelasan VLAN trunking

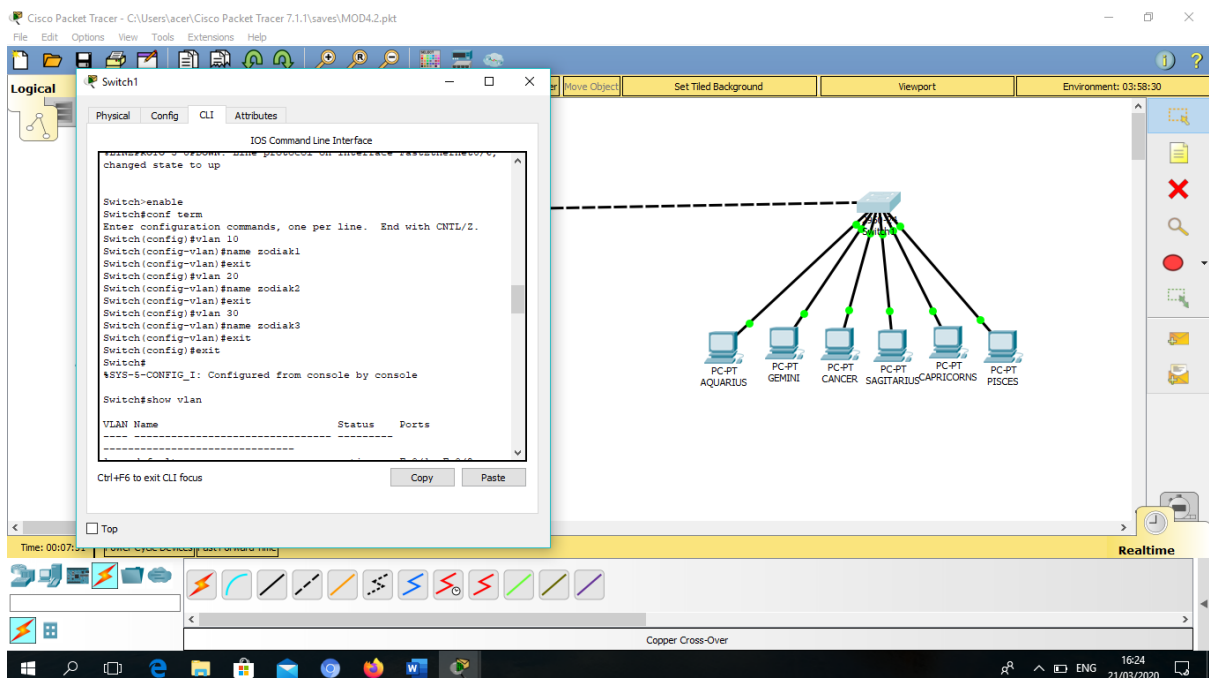
Trunking merupakan penyedia akses jaringan bagi banyak klien dengan berbagi satu set garis yang berperan sebagai jalur utama Fa0/24



Tugas 8A : Ping LEO ke PISCES

Hasilnya request time out, karena vlan LEO dan vlan PISCES berbeda/koneksi network nya berbeda

Konfigurasi Switch1 dan show vlan



Konfigurasi port

Cisco Packet Tracer - C:\Users\acer\Cisco Packet Tracer 7.1.1\saves\MOD4.2.pkt

File Edit Options View Tools Extensions Help

Logical Switch1

Physical Config CLI Attributes

IOS Command Line Interface

```
Switch#show vlan
```

VLAN Name	Status	Ports
1 default	active	Fa0/1, Fa0/2, Fa0/3, Fa0/4, Fa0/7, Fa0/8, Fa0/11, Fa0/12, Fa0/15, Fa0/16, Fa0/19, Fa0/20, Fa0/23, Fa0/24
10 sodiak1	active	
20 sodiak2	active	
30 sodiak3	active	
1002 fddi-default	active	
1003 token-ring-default	active	
1004 fddinet-default	active	
1005 trnet-default	active	

Ctrl+H6 to exit CLI focus

Copy Paste

Time: 00:07:50

Realtime

Copper Cross-Over

Cisco Packet Tracer - C:\Users\acer\Cisco Packet Tracer 7.1.1\saves\MOD4.2.pkt

File Edit Options View Tools Extensions Help

Logical Switch1

Physical Config CLI Attributes

IOS Command Line Interface

```
1005 trnet-default
```

VLAN Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BridgeMode
1	enet	100001	1500	-	-	-	-
0	0	0	-	-	-	-	-
10	enet	100010	1500	-	-	-	-
0	0	0	-	-	-	-	-
20	enet	100020	1500	-	-	-	-
0	0	0	-	-	-	-	-
30	enet	100030	1500	-	-	-	-
0	0	0	-	-	-	-	-
1002	fddi	101002	1500	-	-	-	-
0	0	0	-	-	-	-	-
1003	tr	101003	1500	-	-	-	-
0	0	0	-	-	-	-	-
1004	fdnet	101004	1500	-	-	ieee	-
0	0	0	-	-	-	-	-
1005	trnet	101005	1500	-	-	ibm	-
0	0	0	-	-	-	-	-

Ctrl+H6 to exit CLI focus

Copy Paste

Time: 00:08:00

Realtime

Copper Cross-Over

Cisco Packet Tracer - C:\Users\acer\Cisco Packet Tracer 7.1.1\saves\MOD4.2.pkt

File Edit Options View Tools Extensions Help

Logical Switch1

Physical Config CLI Attributes

IOS Command Line Interface

VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode
Trans1	Trans2							

Remote SPAN VLANs

Primary Secondary Type Ports

Switch#show vlan

VLAN Name	Status	Ports
1 default	active	Fa0/1, Fa0/2, Fa0/3, Fa0/4, Fa0/7, Fa0/8, Fa0/11, Fa0/12, Fa0/15, Fa0/16

Ctrl+F6 to exit CLI focus

Copy Paste

Time: 00:08:00

Realtime

Copper Cross-Over

16:24 21/03/2020

Cisco Packet Tracer - C:\Users\acer\Cisco Packet Tracer 7.1.1\saves\MOD4.2.pkt

File Edit Options View Tools Extensions Help

Logical Switch1

Physical Config CLI Attributes

IOS Command Line Interface

Switch#show vlan

VLAN Name	Status	Ports
1 default	active	Fa0/1, Fa0/2, Fa0/3, Fa0/4, Fa0/7, Fa0/8, Fa0/11, Fa0/12, Fa0/15, Fa0/16, Fa0/19, Fa0/20, Fa0/23, Fa0/24
10 sdiak1	active	
20 sdiak2	active	
30 sdiak3	active	
1002 fddi-default	active	
1003 token-ring-default	active	
1004 fddinet-default	active	
1005 ttnet-default	active	

Ctrl+F6 to exit CLI focus

Copy Paste

Time: 00:08:00

Realtime

Copper Cross-Over

16:24 21/03/2020

Cisco Packet Tracer - C:\Users\acer\Cisco Packet Tracer 7.1.1\saaves\MOD4.2.pkt

File Edit Options View Tools Extensions Help

Logical Switch1

Physical Config CLI Attributes

IOS Command Line Interface

VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BridgMode
1	enet	100001	1500	-	-	-	-	-
0	0	0	0	-	-	-	-	-
10	enet	100010	1500	-	-	-	-	-
0	0	0	0	-	-	-	-	-
20	enet	100020	1500	-	-	-	-	-
0	0	0	0	-	-	-	-	-
30	enet	100030	1500	-	-	-	-	-
0	0	0	0	-	-	-	-	-
1002	fdi	101002	1500	-	-	-	-	-
0	0	0	0	-	-	-	-	-
1003	tr	101003	1500	-	-	-	-	-
0	0	0	0	-	-	-	-	-
1004	fdnet	101004	1500	-	-	-	ieee	-
0	0	0	0	-	-	-	-	-
1005	trnet	101005	1500	-	-	-	ibm	-
0	0	0	0	-	-	-	-	-

Ctrl+F6 to exit CLI focus

Copy Paste

Time: 00:08:00

Realtime

Copper Cross-Over

16:24 21/03/2020

Cisco Packet Tracer - C:\Users\acer\Cisco Packet Tracer 7.1.1\saaves\MOD4.2.pkt

File Edit Options View Tools Extensions Help

Logical Switch1

Physical Config CLI Attributes

IOS Command Line Interface

VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BridgMode
30	enet	100030	1500	-	-	-	-	-
0	0	0	0	-	-	-	-	-
1002	fdi	101002	1500	-	-	-	-	-
0	0	0	0	-	-	-	-	-
1003	tr	101003	1500	-	-	-	-	-
0	0	0	0	-	-	-	-	-
1004	fdnet	101004	1500	-	-	-	ieee	-
0	0	0	0	-	-	-	-	-
1005	trnet	101005	1500	-	-	-	ibm	-
0	0	0	0	-	-	-	-	-

Remote SPAN VLANs

Primary Secondary Type Ports

Switch#

Ctrl+F6 to exit CLI focus

Copy Paste

Time: 00:08:00

Realtime

Copper Cross-Over

16:25 21/03/2020

```
LEO
Physical Config Desktop Programming Attributes
Command Prompt
Ping statistics for 172.21.1.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
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:

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:\>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:\>
```

```
LIBRA
Physical Config Desktop Programming Attributes
Command Prompt

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),

C:\>ping 172.21.1.1

Pinging 172.21.1.1 with 32 bytes of data:

Reply from 172.21.1.1: bytes=32 time=1ms TTL=128
Reply from 172.21.1.1: bytes=32 time=1ms TTL=128
Reply from 172.21.1.1: bytes=32 time=1ms TTL=128
Reply from 172.21.1.1: bytes=32 time=3ms 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 = 0ms, Maximum = 3ms, Average = 1ms

C:\>
```

Tugas 10 melakukan ping :

Dari percobaan diatas, disimpulkan bila PC berada pada VLAN yang sama akan menghasilkan replay. Namun, jika pada VLAN yang berbed akan request time out