

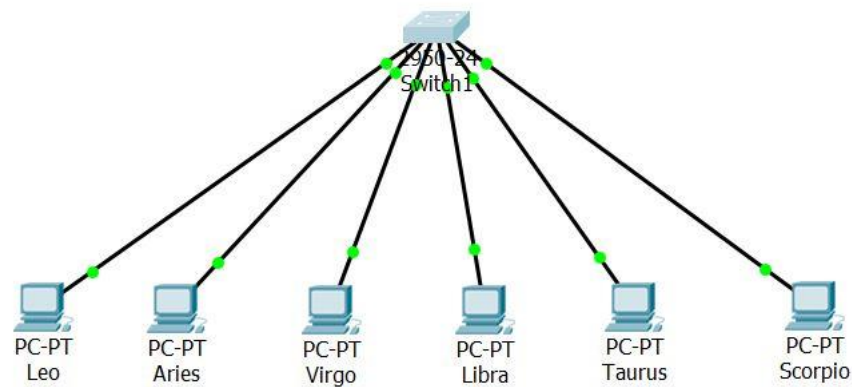
COMPUTER NETWORKS
PRACTICUM 4
EVEN SEMESTER



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INFORMATION STUDY PROGRAM
COMMUNICATION AND INFORMATION FACULTY
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1. Activity 1. Topology 1



```
Switch#show 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				

```
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				

```
Switch#show vlan id 30
```

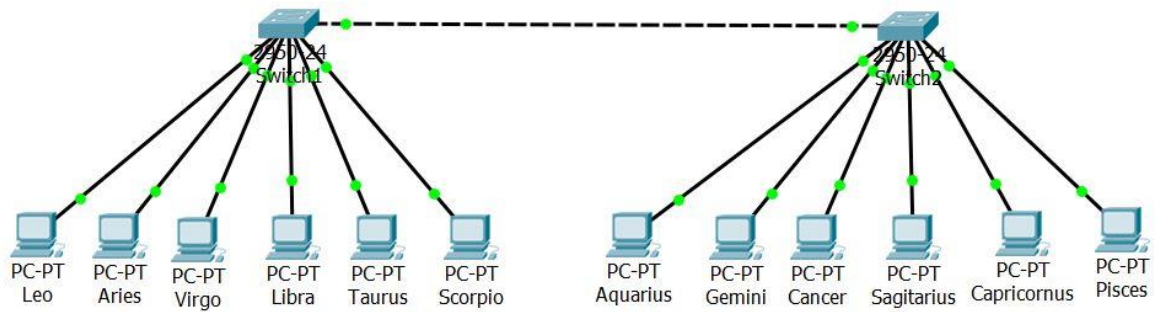
VLAN	Name	Status	Ports
30	zodiak3	active	Fa0/3, Fa0/6

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

Briefly explain the results obtained!

- In VLAN number 10 (zodiak1) there are 2 ports that have been configured, namely Fa0/1 and Fa0/4.
- In VLAN number 20 (zodiak2) there are 2 ports that have been configured, namely Fa0/2 and Fa0/5.
- In VLAN number 30 (zodiak3) there are 2 ports that have been configured, namely Fa0/3 and Fa0/6.

2. Activity 2. Topology 2



```
Switch#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 Fa0/23, Fa0/24
10	zodiak1	active	Fa0/1, Fa0/4
20	zodiak2	active	Fa0/2, Fa0/5
30	zodiak3	active	Fa0/3,

Fa0/20, Fa0/21, Fa0/22								Fa0/19,
Fa0/24								Fa0/23,
10 zodiak1	active							Fa0/1,
Fa0/4								Fa0/2,
20 zodiak2	active							Fa0/3,
Fa0/5								
30 zodiak3	active							
Fa0/6								
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						
1	enet	100001	1500	-	-	-	-	
-	0	0						
10	enet	100010	1500	-	-	-	-	

Ctrl+F6 to exit CLI focus

Copy

Paste

Physical
Config
CLI
Attributes

IOS Command Line Interface

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						
VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp
BrdgMode	Trans1	Trans2					
1	enet	100001	1500	-	-	-	-
-	0	0					
10	enet	100010	1500	-	-	-	-
-	0	0					
20	enet	100020	1500	-	-	-	-
-	0	0					
30	enet	100030	1500	-	-	-	-
-	0	0					
--More--							

Ctrl+F6 to exit CLI focus

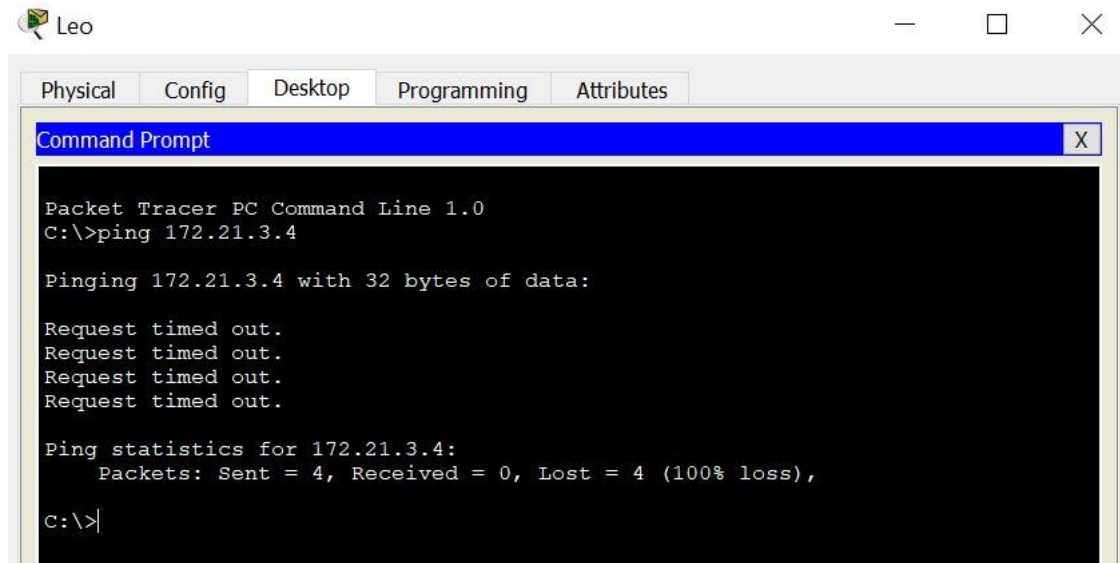
Copy

Paste

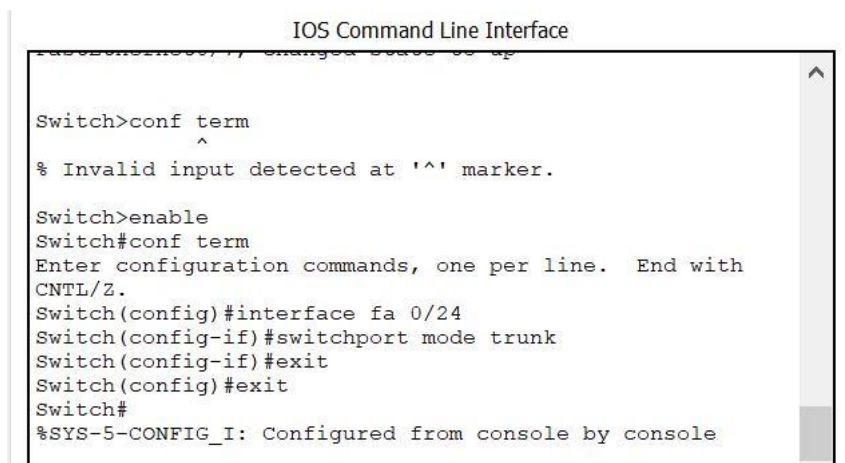
Exercise 7A :

- 1) In VLAN number 10 (zodiak1) there are 2 ports that have been configured, namely Fa0/1 and Fa0/4
- 2) In VLAN number 20 (zodiak2) there are 2 ports that have been configured, namely Fa0/2 and Fa0/5
- 3) In VLAN number 30 (zodiak3) there are 2 ports that have been configured, namely Fa0/3 and Fa0/6

4) Fa0/24 is configured in VLAN Trunking



The configuration of the IP address on PC Leo and PC Pisces is different



```
Switch#show vlan
```

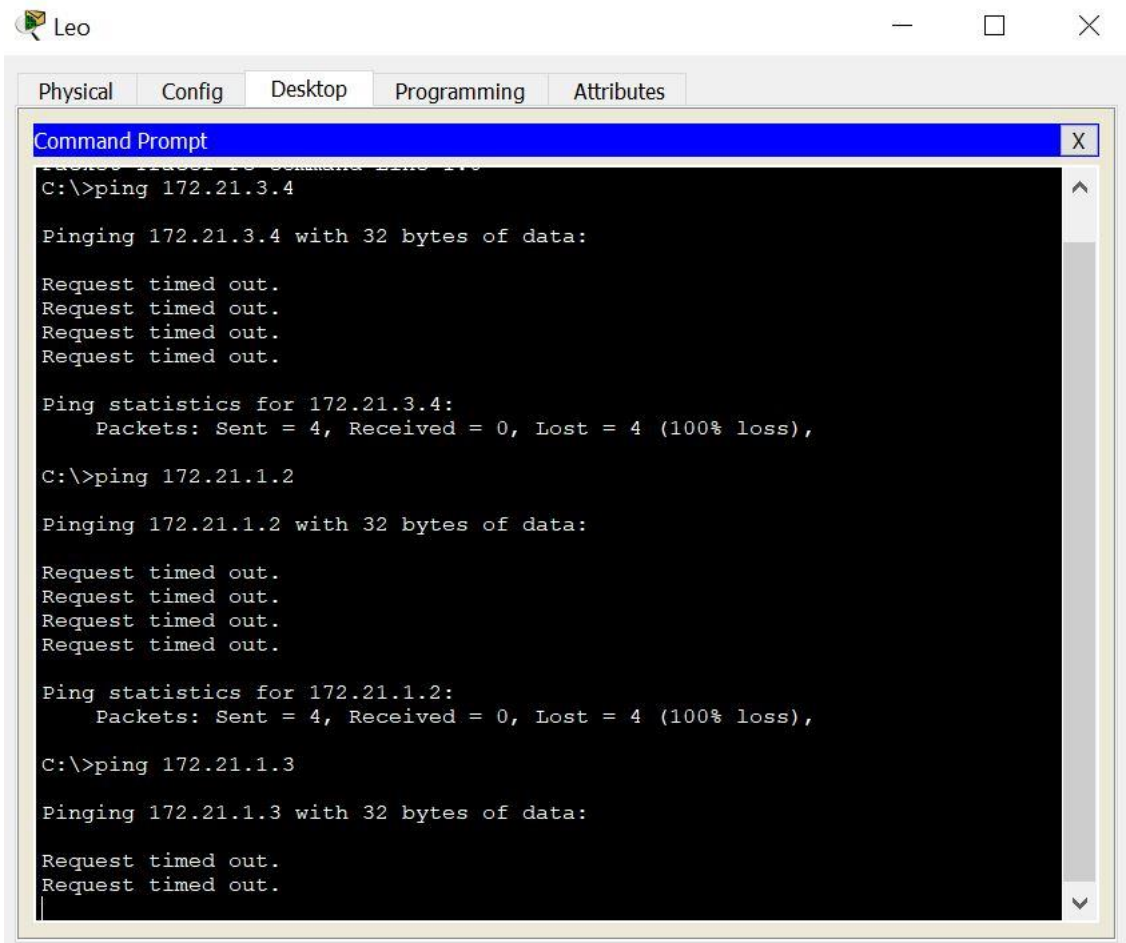
VLAN	Name	Status	Ports
1	default	active	Fa0/1, Fa0/2, Fa0/3, Fa0/4 Fa0/5, Fa0/6, Fa0/7, Fa0/8 Fa0/9, Fa0/10, Fa0/11, Fa0/12 Fa0/13, Fa0/14, Fa0/15, Fa0/16 Fa0/17, Fa0/18, Fa0/19, Fa0/20 Fa0/21, Fa0/22, Fa0/23, Fa0/24
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

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

Fa0/24 is configured in VLAN Trunking

```
Switch(config-if)#interface fastethernet 0/1
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#interface fastethernet 0/2
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#interface fastethernet 0/3
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#interface fastethernet 0/4
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#interface fastethernet 0/5
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 30
Switch(config-if)#interface fastethernet 0/6
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 30
Switch(config-if)#exit
Switch(config)#
```

PC Leo ke PC Aries, PC Leo ke PC Leo ke Aquarius

The screenshot shows a window titled "Leo" with tabs for "Physical", "Config", "Desktop", "Programming", and "Attributes". The "Desktop" tab is active, displaying a "Command Prompt" window. The Command Prompt shows the following output:

```
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:\>
```

PC Leo ke Pisces

The screenshot shows a Command Prompt window with the following output:

```
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:  
  
Request timed out.  
Request timed out.  
Request timed out.
```

PC Libra ke Cancer dan PC Libra ke Leo

All results pinged to several PCs generate status request time out due to differences in IP address and switch differences

