# • Logical Network Topology

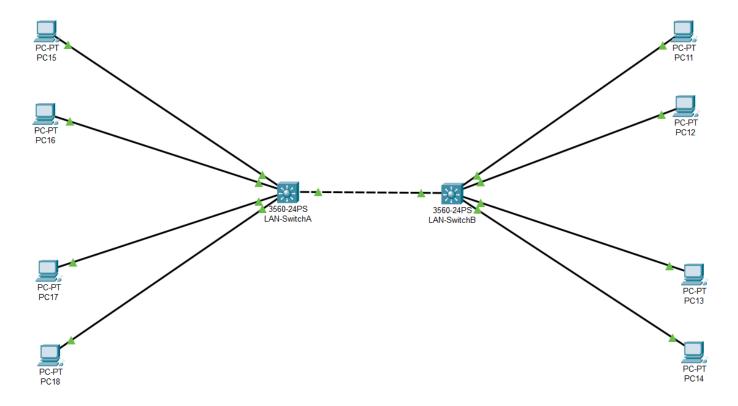


FIGURE 1.1 – PC / SWITCHPORT CONFIGRUATIONS

Equipment	Address	MASK	Switchport	Mode	VLAN	Switch
PC11	192.168.21.11	255.255.255.0	Fa0/1	Access	10	В
PC12	192.168.21.12	255.255.255.0	Fa0/2	Access	10	В
PC13	192.168.21.13	255.255.255.0	Fa0/3	Access	20	В
PC14	192.168.21.14	255.255.255.0	Fa0/4	Access	20	В
PC15	192.168.21.15	255.255.255.0	Fa0/1	Access	10	A
PC16	192.168.21.16	255.255.255.0	Fa0/2	Access	10	A
PC17	192.168.21.17	255.255.255.0	Fa0/3	Access	20	A
PC18	192.168.21.18	255.255.255.0	Fa0/4	Access	20	Α

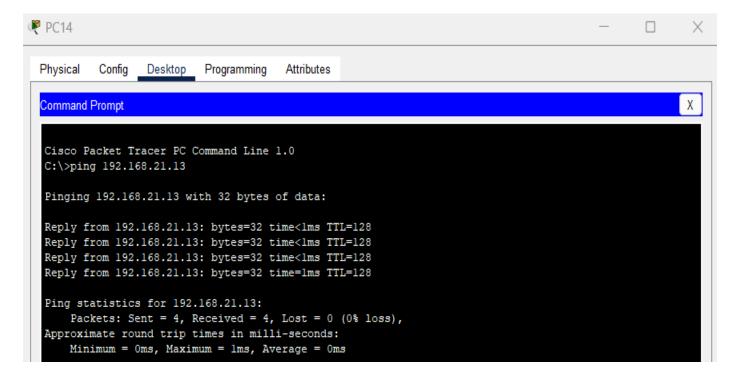
FIGURE 1.2 – LAN-SWITCH CONFIGURATIONS

Display/ Hostname	Trunk Port	Access Ports	Encapsulation Type		
LAN-SwitchA	Fa0/24	Fa0/1-4	IEEE 802.1Q		
LAN-SwitchB	Fa0/24	Fa0/1-4	IEEE 802.1Q		

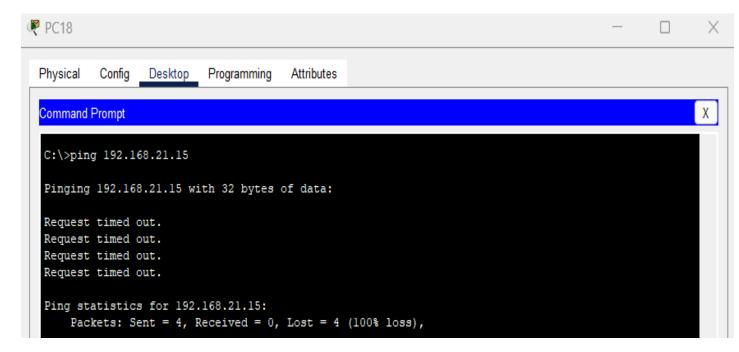
• Successful Ping from PC 18 (192.168.21.18) to PC 11 (192.168.21.11) (Pre-VLAN)

```
Physical
         Config
                 Desktop
                          Programming
                                       Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.21.11
Pinging 192.168.21.11 with 32 bytes of data:
Reply from 192.168.21.11: bytes=32 time=1ms TTL=128
Reply from 192.168.21.11: bytes=32 time<1ms TTL=128
Reply from 192.168.21.11: bytes=32 time<1ms TTL=128
Reply from 192.168.21.11: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.21.11:
     Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms
 C:\>
```

Successful Ping from PC 14 (192.168.21.14) to PC 13 (192.168.21.13) (Within VLAN
 20)



Unsuccessful Ping from PC 18 (192.168.21.18 /vlan 20) to PC 15 (192.168.21.15 /vlan10)



#### • Switch A #show ip interface

```
LAN-SwitchA>show ip interface
FastEthernet0/1 is up, line protocol is up
  Internet protocol processing disabled
FastEthernet0/2 is up, line protocol is up
  Internet protocol processing disabled
FastEthernet0/3 is up, line protocol is up
  Internet protocol processing disabled
FastEthernet0/4 is up, line protocol is up
  Internet protocol processing disabled
FastEthernet0/5 is administratively down, line protocol is down
  Internet protocol processing disabled
FastEthernet0/6 is administratively down, line protocol is down
  Internet protocol processing disabled
FastEthernet0/7 is administratively down, line protocol is down
  Internet protocol processing disabled
FastEthernet0/8 is administratively down, line protocol is down
  Internet protocol processing disabled
FastEthernet0/9 is administratively down, line protocol is down
  Internet protocol processing disabled
FastEthernet0/10 is administratively down, line protocol is down
  Internet protocol processing disabled
FastEthernet0/11 is administratively down, line protocol is down
  Internet protocol processing disabled
FastEthernet0/12 is administratively down, line protocol is down
  Internet protocol processing disabled
FastEthernet0/13 is administratively down, line protocol is down
  Internet protocol processing disabled
FastEthernet0/14 is administratively down, line protocol is down
  Internet protocol processing disabled
FastEthernet0/15 is administratively down, line protocol is down
  Internet protocol processing disabled
FastEthernet0/16 is administratively down, line protocol is down
  Internet protocol processing disabled
FastEthernet0/17 is administratively down, line protocol is down
  Internet protocol processing disabled
FastEthernet0/18 is administratively down, line protocol is down
  Internet protocol processing disabled
FastEthernet0/19 is administratively down, line protocol is down
  Internet protocol processing disabled
FastEthernet0/20 is administratively down, line protocol is down
  Internet protocol processing disabled
```

FastEthernet0/21 is administratively down, line protocol is down Internet protocol processing disabled

FastEthernet0/22 is administratively down, line protocol is down Internet protocol processing disabled

FastEthernet0/23 is administratively down, line protocol is down Internet protocol processing disabled

FastEthernet0/24 is up, line protocol is up

Internet protocol processing disabled

 ${\tt GigabitEthernet0/1}$  is down, line protocol is down

Internet protocol processing disabled

GigabitEthernet0/2 is down, line protocol is down

Internet protocol processing disabled

Vlanl is administratively down, line protocol is down

Internet protocol processing disabled

## • Switch A #show vlan

LAN-SwitchA#show vlan

VLAN	N Name					tus	Ports			
1	defau					ive	Fa0/9, 1 Fa0/13, Fa0/17,	Fa0/6, Fa0 Fa0/10, Fa Fa0/14, 1 Fa0/18, 1 Fa0/22, 1	a0/11, 1 Fa0/15, Fa0/19,	Fa0/12 Fa0/16 Fa0/20
10	zone1	)			act	ive	Fa0/1, I	Fa0/2		
20	zone2	)					Fa0/3, I			
1002	fddi-	default			act	ive				
1003	token-	-ring-defau	lt		act	ive				
1004	fddin	et-default			act	active				
1005	trnet-	-default			act:	ive				
		SAID			_	_	_	_		
		100001							_	0
		100010								0
		100020								0
		101002								0
		101003								0
		101004								0
1005	trnet	101005	1500	_	_	_	ibm	-	0	0
VLAN	Type	SAID								
Remot	Remote SPAN VLANs									

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#### • Switch B #show ip interface

```
LAN-SwitchB#show ip interface
FastEthernet0/1 is up, line protocol is up
  Internet protocol processing disabled
FastEthernet0/2 is up, line protocol is up
  Internet protocol processing disabled
FastEthernet0/3 is up, line protocol is up
  Internet protocol processing disabled
FastEthernet0/4 is up, line protocol is up
  Internet protocol processing disabled
FastEthernet0/5 is administratively down, line protocol is down
  Internet protocol processing disabled
FastEthernet0/6 is administratively down, line protocol is down
  Internet protocol processing disabled
FastEthernet0/7 is administratively down, line protocol is down
  Internet protocol processing disabled
FastEthernet0/8 is administratively down, line protocol is down
  Internet protocol processing disabled
FastEthernet0/9 is administratively down, line protocol is down
  Internet protocol processing disabled
FastEthernet0/10 is administratively down, line protocol is down
  Internet protocol processing disabled
FastEthernet0/11 is administratively down, line protocol is down
  Internet protocol processing disabled
FastEthernet0/12 is administratively down, line protocol is down
  Internet protocol processing disabled
FastEthernet0/13 is administratively down, line protocol is down
  Internet protocol processing disabled
FastEthernet0/14 is administratively down, line protocol is down
  Internet protocol processing disabled
FastEthernet0/15 is administratively down, line protocol is down
  Internet protocol processing disabled
FastEthernet0/16 is administratively down, line protocol is down
  Internet protocol processing disabled
FastEthernet0/17 is administratively down, line protocol is down
  Internet protocol processing disabled
FastEthernet0/18 is administratively down, line protocol is down
  Internet protocol processing disabled
FastEthernet0/19 is administratively down, line protocol is down
  Internet protocol processing disabled
FastEthernet0/20 is administratively down, line protocol is down
  Internet protocol processing disabled
```

FastEthernet0/21 is administratively down, line protocol is down Internet protocol processing disabled

FastEthernet0/22 is administratively down, line protocol is down Internet protocol processing disabled

FastEthernet0/23 is administratively down, line protocol is down Internet protocol processing disabled

FastEthernet0/24 is up, line protocol is up

Internet protocol processing disabled

GigabitEthernet0/1 is down, line protocol is down Internet protocol processing disabled

GigabitEthernet0/2 is down, line protocol is down
Internet protocol processing disabled

Vlanl is administratively down, line protocol is down Internet protocol processing disabled

## • Switch B #show vlan

### LAN-SwitchB#show vlan

VLAN Name						tus I					
	defaul					ive I I I	Fa0/5, I Fa0/9, I Fa0/13, Fa0/17,	Fa0/6, Fa0/10, Fa0/14, 1 Fa0/14, 1 Fa0/18, 1 Fa0/22, 1	0/7, Fa a0/11, 1 Fa0/15, Fa0/19,	0/8 Fa0/12 Fa0/16 Fa0/20	
20 1002 1003 1004	token- fddin				ive I ive I ive ive ive	Gig0/2 Fa0/1, Fa0/2 Fa0/3, Fa0/4					
		SAID			_	_	_	_			
1 10 20 1002 1003 1004 1005 VLAN	enet enet fddi tr fdnet trnet	100001 100010 100020 101002 101003 101004 101005 SAID	1500 1500 1500 1500 1500 1500 1500	- - - - - - - Parent	- - - - - - - RingNo	- - - - - - BridgeN	- - - - ieee ibm	- - - - - - - BrdgMode	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 Trans2	
	Primary Secondary Type Ports										