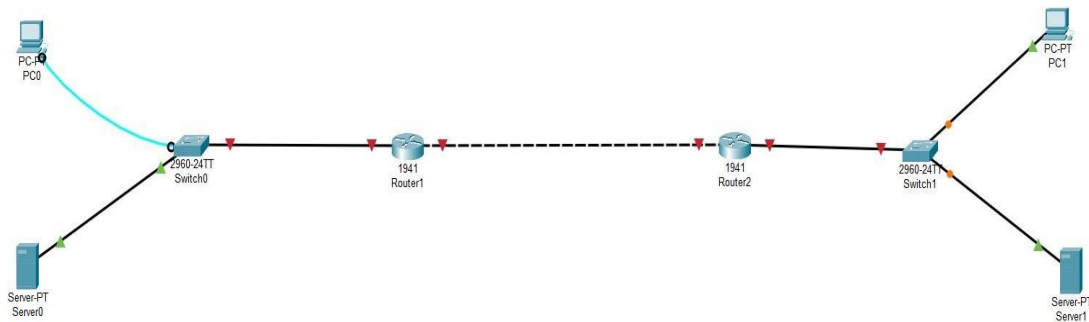


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**Lab:** 3

### Task 1: Topology



Q1: What is the significance of assigning the IP address to the VLAN1 interface instead of any of the Fast Ethernet interfaces?

Ans: control broadcasting and prevent time lag Improves security, flexibility between 2 VLAN's

Q2. What command is necessary to enforce password authentication on the console and vty lines?

Ans: A) Password authentication on the console

```
CustomerSwitch(config-line)#password cisco
CustomerSwitch(config-line)#login
CustomerSwitch(config-line)#exit
CustomerSwitch(config)#exit
CustomerSwitch#
%SYS-5-CONFIG_I: Configured from console by
console
```

B) Password authentication on the vty lines

```
CustomerSwitch(config)#line vty 0 15
CustomerSwitch(config-line)#password cisco
CustomerSwitch(config-line)#login
CustomerSwitch(config-line)#exit
```

Q3. How many gigabit ports are available on the Cisco Catalyst 2960 switch that you used in the activity? Ans:

```
CustomerSwitch>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 Gig0/1, Gig0/2
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

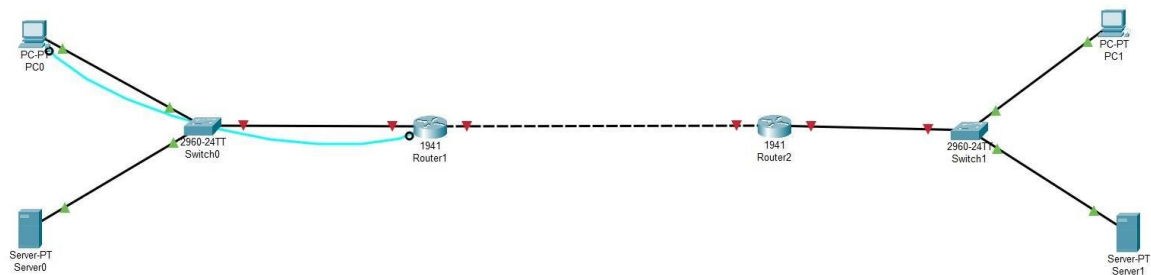
VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	Trans1	Trans2
1	enet	100001	1500	-	-	-	-	-	0	0
1002	fddi	101002	1500	-	-	-	-	-	0	0
1003	tr	101003	1500	-	-	-	-	-	0	0
1004	fdnet	101004	1500	-	-	-	ieee	-	0	0
1005	trnet	101005	1500	-	-	-	ibm	-	0	0

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

Remote SPAN VLANs

## Task 2: Topology



Q1. Which Cisco ISO CLI commands did you use most?

Ans:

commands used most in User Mode : enable, exit, login  
 Commands used most in Privileged Mode : configure terminal, exit, show run, show vlan  
 Commands used most in Global Configuration Mode line vty 0-15, hostname, exit, enable password [password], enable secret [password],

2. How can you make the customer router passwords more secure?

Ans: making password secret i.e. encrypted.

```
customerRouter#config t
Enter configuration commands, one per line.  End with CNTL/Z.
customerRouter(config)#enable password cisco
customerRouter(config)#enable secret cisco123
```

```
CustomerRouter(config)#service password-encryption
CustomerRouter(config)#banner motd $Authorized Access Only!$
CustomerRouter(config)#no ip domain-lookup
CustomerRouter(config)#end
CustomerRouter#
%SYS-5-CONFIG_I: Configured from console by console

CustomerRouter#copy run start
Destination filename [startup-config]?
Building configuration...
[OK]
CustomerRouter#
```