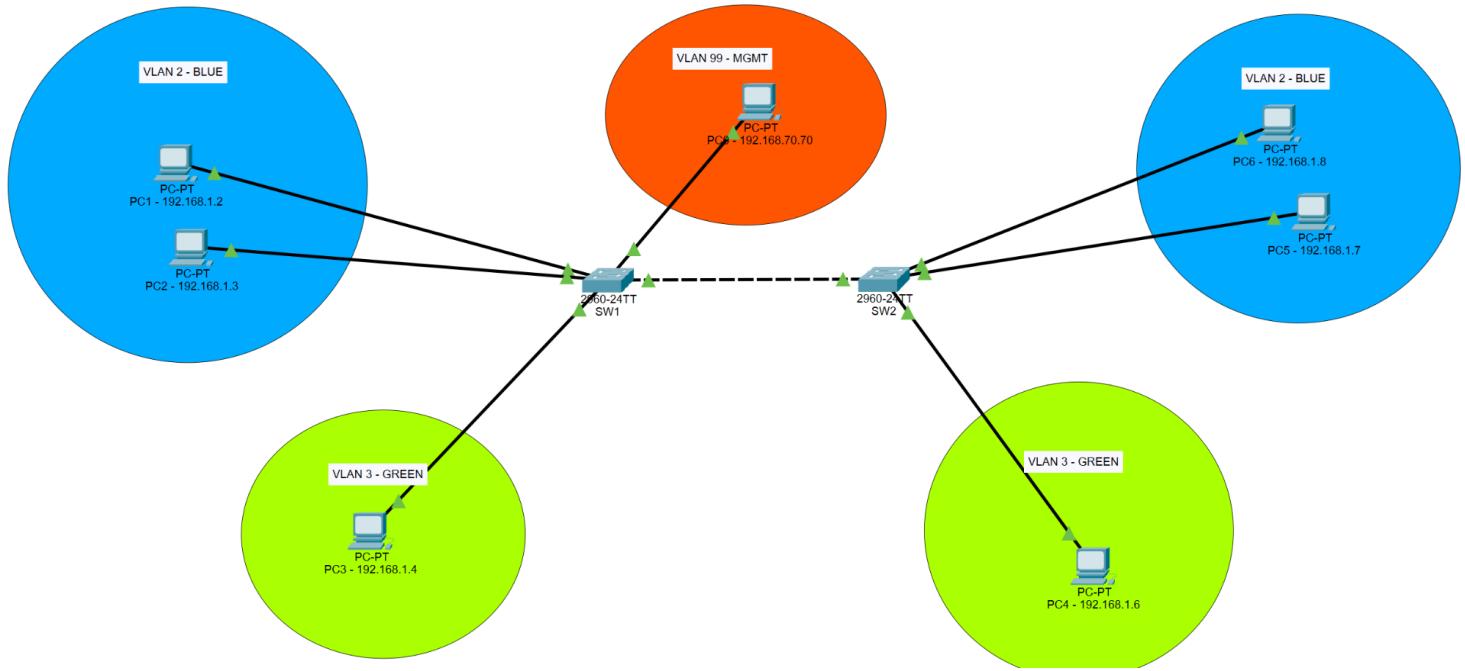


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1. Cisco Packet Tracer VLAN Configuration (Practice Exercise)



SWITCH PASSWORD: cisco

Reconstructing VLAN from the IPCisco instruction:

SWITCH 1				SWITCH 2			
PC1	192.168.1.2	F0/2	VLAN 2	PC4	192.168.1.6	F0/2	VLAN 3
PC2	192.168.1.3	F0/3	VLAN 2	PC5	192.168.1.7	F0/3	VLAN 2
PC3	192.168.1.4	F0/4	VLAN 3	PC6	192.168.1.8	F0/4	VLAN 3
PC0	192.168.70.70	F0/24	VLAN 99				

I created four VLANs:

VLAN 2 (BLUE)

VLAN 3 (GREEN)

VLAN 70 (MISC)

VLAN 99 (MGMT) - SWITCH 1's IP: 192.168.70.77

I added VLAN99 (MGMT) and VLAN70 (MISC) to the switch for management and security. It is best practice to move the remaining ports to a separate VLAN other than the default VLAN because bad actors know that if it is left in the default, it will be easier for them to gain access. All unused ports were relocated to VLAN70.

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VLAN	Name	Status	Ports
1	default	active	
2	blue	active	Fa0/2, Fa0/3
3	green	active	Fa0/4
70	misc	active	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, Gig0/1 Gig0/2
99	mgmt	active	Fa0/24
1002	fdmi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

2. Cisco Packet Tracer Router Configuration (Practice Exercise) - See attached Pkt file name:

p1w9_1router_practice_emiliedionisio.pkt

```
R1#sh ip int br
Interface          IP-Address      OK? Method Status      Protocol
GigabitEthernet0/0 192.168.1.1    YES manual up       up
GigabitEthernet0/1 192.168.2.1    YES manual up       up
GigabitEthernet0/2  unassigned     YES unset administratively down down
Vlan1              unassigned     YES unset administratively down down
```

```
!
interface GigabitEthernet0/0
 ip address 192.168.1.1 255.255.255.0
 duplex auto
 speed auto
!
interface GigabitEthernet0/1
 ip address 192.168.2.1 255.255.255.0
 duplex auto
 speed auto
!
interface GigabitEthernet0/2
 no ip address
 duplex auto
 speed auto
 shutdown
!
interface Vlan1
 no ip address
 shutdown
!
ip classless
!
```

3. Cisco Packet Tracer Configuration (Challenge Exercise) - See attached Pkt file name:

p1w9_2router_challenge_emiliedionisio.pkt

R1

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```
interface GigabitEthernet0/0
 ip address 192.168.1.1 255.255.255.0
 duplex auto
 speed auto
!
interface GigabitEthernet0/1
 no ip address
 duplex auto
 speed auto
 shutdown
!
interface GigabitEthernet0/2
 no ip address
 duplex auto
 speed auto
 shutdown
!
interface Serial0/0/0
 ip address 192.168.2.1 255.255.255.252
 clock rate 128000
!
interface Serial0/0/1
 no ip address
 clock rate 2000000
 shutdown
!
interface Vlan1
 no ip address
 shutdown
!
ip classless
ip route 192.168.3.0 255.255.255.0 192.168.2.2
!
```

Interface	IP-Address	OK?	Method	Status	Protocol
GigabitEthernet0/0	192.168.1.1	YES	manual	up	up
GigabitEthernet0/1	unassigned	YES	unset	administratively down	down
GigabitEthernet0/2	unassigned	YES	unset	administratively down	down
Serial0/0/0	192.168.2.1	YES	manual	up	up
Serial0/0/1	unassigned	YES	unset	administratively down	down
Vlan1	unassigned	YES	unset	administratively down	down

R2

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```
interface GigabitEthernet0/0
 ip address 192.168.3.1 255.255.255.0
 duplex auto
 speed auto
!
interface GigabitEthernet0/1
 no ip address
 duplex auto
 speed auto
 shutdown
!
interface GigabitEthernet0/2
 no ip address
 duplex auto
 speed auto
 shutdown
!
interface Serial0/0/0
 ip address 192.168.2.2 255.255.255.252
!
interface Serial0/0/1
 no ip address
 clock rate 2000000
 shutdown
!
interface Vlan1
 no ip address
 shutdown
!
ip classless
ip route 192.168.1.0 255.255.255.0 192.168.2.1
!
```

```
R2#SH IP int br
Interface          IP-Address      OK? Method Status          Protocol
GigabitEthernet0/0 192.168.3.1    YES manual up           up
GigabitEthernet0/1 unassigned      YES unset  administratively down down
GigabitEthernet0/2 unassigned      YES unset  administratively down down
Serial0/0/0        192.168.2.2    YES manual up           up
Serial0/0/1        unassigned      YES unset  administratively down down
Vlan1              unassigned      YES unset  administratively down down
```