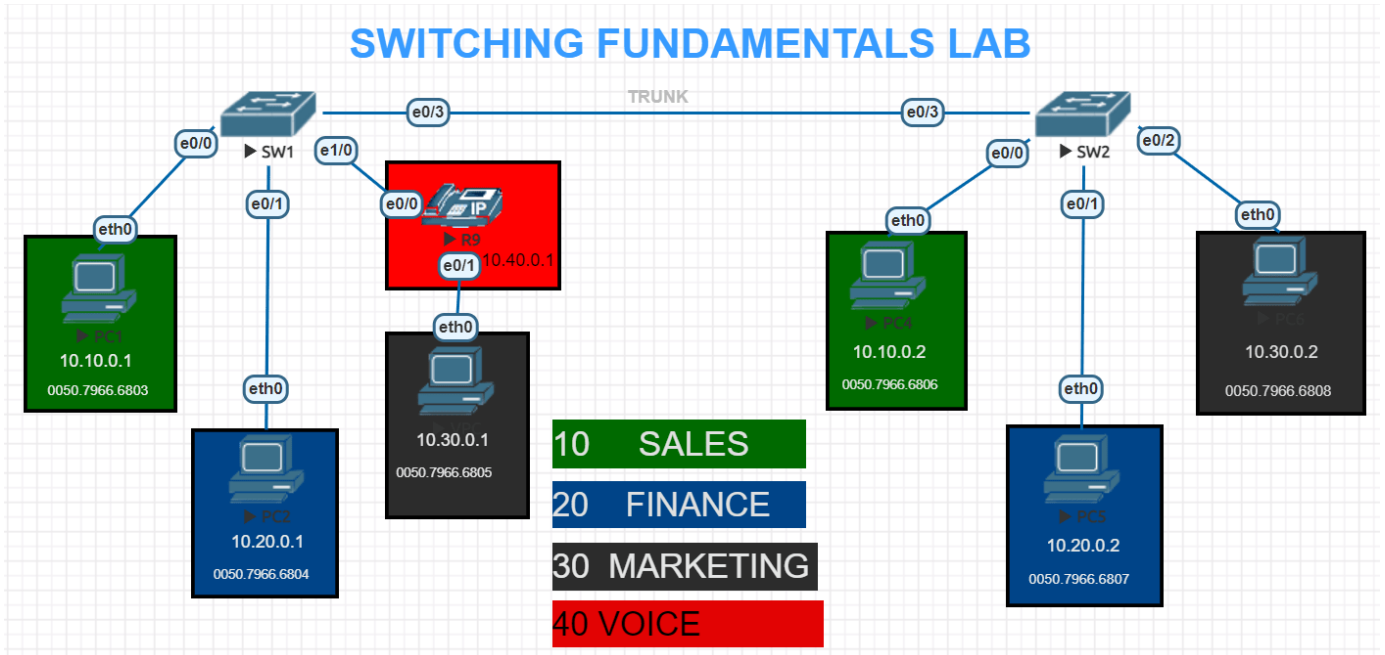


Creating Trunks

In this How To we will cover how to create a static trunk between switches, and filter the VLANs across the link.



- We will need to create a static trunk on Ethernet0/3 between SW1 and SW2.

Configuration

- To create a trunk we must go into the sub-configuration mode of ETH 0/3

```
SW1#conf t # This command puts us in Global Config mode
```

```
SW1(config)#interface ethernet 0/3 # This command puts us into the interface sub-configuration mode
```

```
SW1(config-if)#switchport trunk encapsulation dot1q # This command will set the trunk to use the IEEE 802.1q Encapsulation standard
```

```
SW1(config-if)#switchport mode trunk # This command will statically set the interface to trunking mode.
```

- The complete configuration for both switches is shown below

```
SW1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
SW1(config)#interface ethernet 0/3
SW1(config-if)#switchport trunk encapsulation dot1q
SW1(config-if)#switchport mode trunk
```

```
SW2#conf t
Enter configuration commands, one per line. End with CNTL/Z.
SW2(config)#interface ethernet 0/3
SW2(config-if)#switchport trunk encapsulation dot1q
SW2(config-if)#switchport mode trunk
SW2(config-if)#
```

Filtering VLANs on trunk ports

- To filter the VLANs, add or remove the VLANs allowed across a trunk we use the commands below.

```
SW1(config-if)#switchport trunk allowed vlan 1,10,20,30 # This command will only VLANs
1,10,20,30 across the trunk
```

```
SW1(config-if)#switchport trunk allows [add | remove] vlan 40 # This command allows you to
add or remove VLANs from the trunk port.
```

- The complete configuration is shown below

```
SW1(config)#interface ethernet0/3
SW1(config-if)#switchport trunk allowed vlan 1,10,20,30
SW1(config-if)#switchport trunk allowed vlan add 40
SW1(config-if)#
```

Verification

- The following commands will show and verify the trunks are formed, how they formed and what VLANs are allowed across the trunks.

```
SW1#show interface trunk # This command will show us the active trunks on our switch.
```

```
SW1#show interfaces trunk
```

Port	Mode	Encapsulation	Status	Native vlan
Et0/3	on	802.1q	trunking	1
Port Et0/3	Vlans allowed on trunk			
	1,10,20,30,40			
Port Et0/3	Vlans allowed and active in management domain			
	1,10,20,30,40			
Port Et0/3	Vlans in spanning tree forwarding state and not pruned			
	1,10,20,30,40			

```
SW1#
```