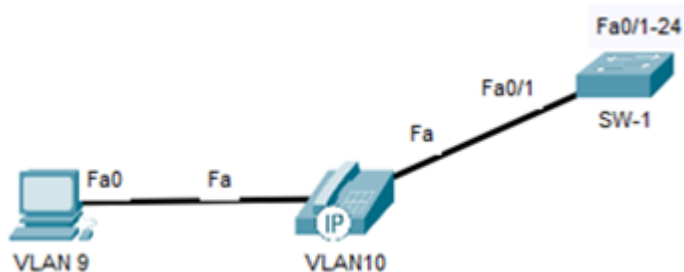


Voice VLAN

Lab Summary

Assign data VLAN and voice VLAN to a range of switch ports for IP phone connectivity and verify.

Figure 1 Lab Topology



Lab Configuration

Start Packet Tracer File: **voice vlan.pkt**

Click on *SW-1* icon and select *CLI* folder.

Step 1: Enter global configuration mode.

```
SW-1> enable  
SW-1# configure terminal
```

Step 2: Configure interface range Fa0/1-24 as access ports on SW-1 and assign data VLAN 9.

```
SW-1(config)# vlan 9  
SW-1(config-vlan)# name data  
SW-1(config-vlan)# vlan 10  
SW-1(config-vlan)# name voice  
SW-1(config)# exit  
SW-1(config)# interface range fastethernet0/1 - 24  
SW-1(config-if)# switchport mode access  
SW-1(config-if)# switchport access vlan 9
```

Step 3: Enable voice VLAN on all access ports for IP phones and assign VLAN 10.

```
SW-1(config-if)# switchport voice vlan 10  
SW-1(config-if)# end  
SW-1# copy running-config startup-config
```

Step 4: Verify Lab

Verify all VLANs are created, operationally active and assigned to all Fast Ethernet switch ports.

```
SW-1# show running-config
```

```
SW-1# show vlan id 10
```

```
SW-1# show vlan brief
```

VLAN	Name	Status	Ports
1	default	active	Gig0/1, Gig0/2
9	data	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
10	voice	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	

Lab Notes

It is common practice to assign data and voice traffic to separate VLANs. The voice VLAN is the only exception where Cisco permits assigning more than one VLAN to an access port.