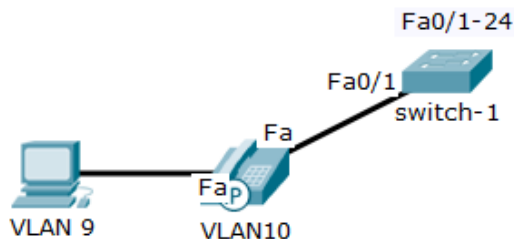


# Voice VLAN

## 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**

Click on the *switch-1* icon and select the *CLI* folder. Hit the <enter> key for user mode prompt (>).

Step 1: Enter global configuration mode.

```
switch-1> enable  
Password: cisconet  
switch-1# configure terminal
```

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

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

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

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

Step 4: Verify all VLANs are created, operationally active and assigned to all Fast Ethernet switch ports.

```
switch-1# show running-config
```

```
switch-1# show vlan brief
```

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

```
switch-1# show vlan brief
```

VLAN	Name	Status	Ports
1	default	active	Gig0/1, Gig0/2
9	<b>data</b>	active	<b>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</b>
10	<b>voice</b>	active	<b>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</b>
1002	fdi-default	active	
1003	token-ring-default	active	
1004	fdinnet-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.