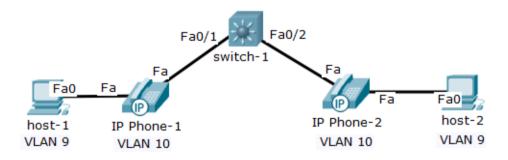
# Power over Ethernet (PoE)

#### **Lab Summary**

Configure Power over Ethernet on all switch-1 interfaces with auto negotiation for IP phones and wireless access points.

Figure 1 Lab Topology



## **Lab Configuration**

Start Packet Tracer File: PoE

#### Switch-1

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 all switch ports for access mode and assign to data VLAN 9.

switch-1(config)# interface range fastethernet 0/1 - 24 switch-1(config-if)# switchport mode access switch-1(config-if)# switchport access vlan 9

Step 3: Assign all switch ports to voice VLAN 10 for IP phones and enable PoE.

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

## switch-1# show power inline

Available: 370.0 (w) Used: 20.0 (w) Remaining: 350.0 (w)

Interface	Admin	Oper	Power	Device	Class	Max (Watts)
			40.0			45.4
Fa0/1 Fa0/2	auto auto	on on	10.0 10.0	IP Phone 7960 IP Phone 7960	3 3	15.4 15.4
Fa0/3	auto	off	0.0	n/a	n/a	15.4
Fa0/4	auto	off	0.0	n/a	n/a	15.4
Fa0/5	auto	off	0.0	n/a	n/a	15.4
Fa0/6	auto	off	0.0	n/a	n/a	15.4
Fa0/7	auto	off	0.0	n/a	n/a	15.4
Fa0/8	auto	off	0.0	n/a	n/a	15.4
Fa0/9	auto	off	0.0	n/a	n/a	15.4

## switch-1# show vlan brief

VLAN	Name	Status	Ports
1 9	default data voice	active active	Gig0/1, Gig0/2 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 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 1003 token-ring-default 1004 fddinet-default 1005 trnet-default		active active active	1 40/21, 1 40/22, 1 40/23, 1 40/24