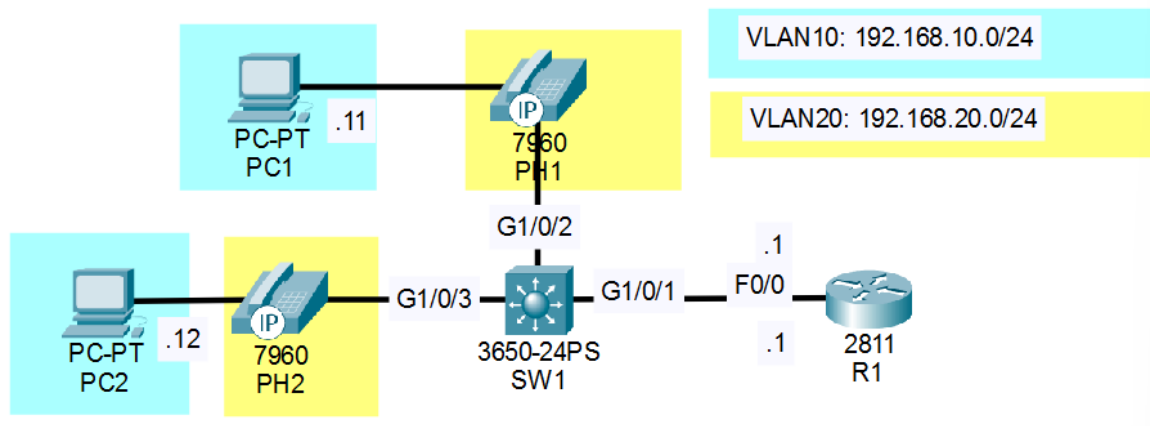


## Network Topology:



Telephony configurations (not relevant to the CCNA) have been pre-configured on R1

Instructions and actions:

1. Configure SW1's interfaces in the appropriate VLANs.

SW1 CLI:

```
SW1(config-if-range)#do sh vlan br
```

VLAN Name	Status	Ports
1 default	active	Gig1/0/4, Gig1/0/5, Gig1/0/6, Gig1/0/7, Gig1/0/8, Gig1/0/9, Gig1/0/10, Gig1/0/11, Gig1/0/12, Gig1/0/13, Gig1/0/14, Gig1/0/15, Gig1/0/16, Gig1/0/17, Gig1/0/18, Gig1/0/19, Gig1/0/20, Gig1/0/21, Gig1/0/22, Gig1/0/23, Gig1/0/24, Gig1/1/1, Gig1/1/2, Gig1/1/3, Gig1/1/4
10 VLAN0010	active	Gig1/0/2, Gig1/0/3
20 VLAN0020	active	Gig1/0/2, Gig1/0/3
1002 fddi-default	active	
1003 token-ring-default	active	
1004 fddinet-default	active	
1005 trnet-default	active	

2. Configure ROAS for the connection between SW1 and R1.

Configured using R1 CLI:

```
R1#sh ip int br
```

Interface	IP-Address	OK?	Method	Status
FastEthernet0/0	unassigned	YES	unset	up
FastEthernet0/0.10	192.168.10.1	YES	manual	up
FastEthernet0/0.20	192.168.20.1	YES	manual	up
FastEthernet0/1	unassigned	YES	unset	administratively down
Vlan1	unassigned	YES	unset	administratively down

### 3. Ping from PC2 to PC1:

```
C:\>ping 192.168.10.11

Pinging 192.168.10.11 with 32 bytes of data:

Reply from 192.168.10.11: bytes=32 time<1ms TTL=128
Reply from 192.168.10.11: bytes=32 time<1ms TTL=128
Reply from 192.168.10.11: bytes=32 time<1ms TTL=128
Reply from 192.168.10.11: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.10.11:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

### 4. Call from PH2 to PH1:



Observed in simulation mode:

The voice traffic from PH2 to PH1 was tagged in the VLAN ID (20 here), but the data traffic was untagged.