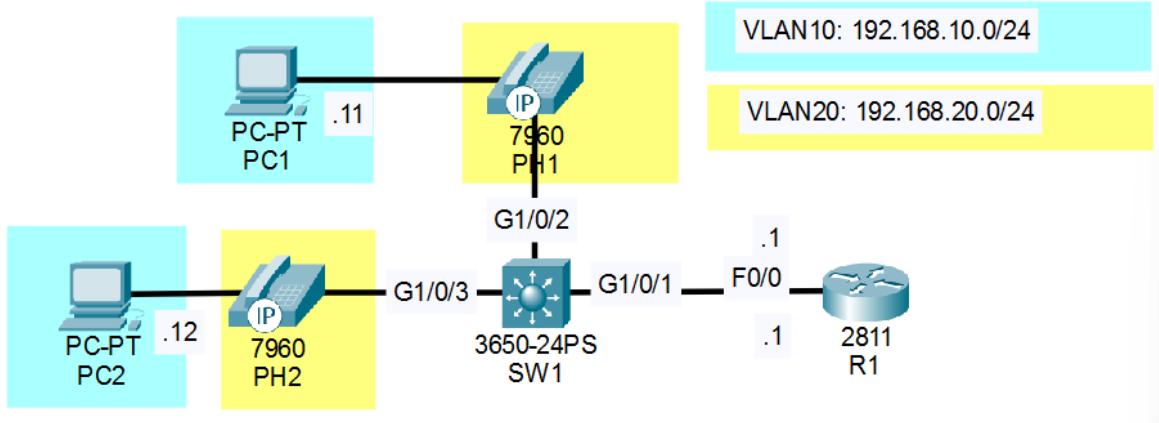


## Network Topology:



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
Protocol
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
down
Vlan1             unassigned      YES unset  administratively down
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

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.