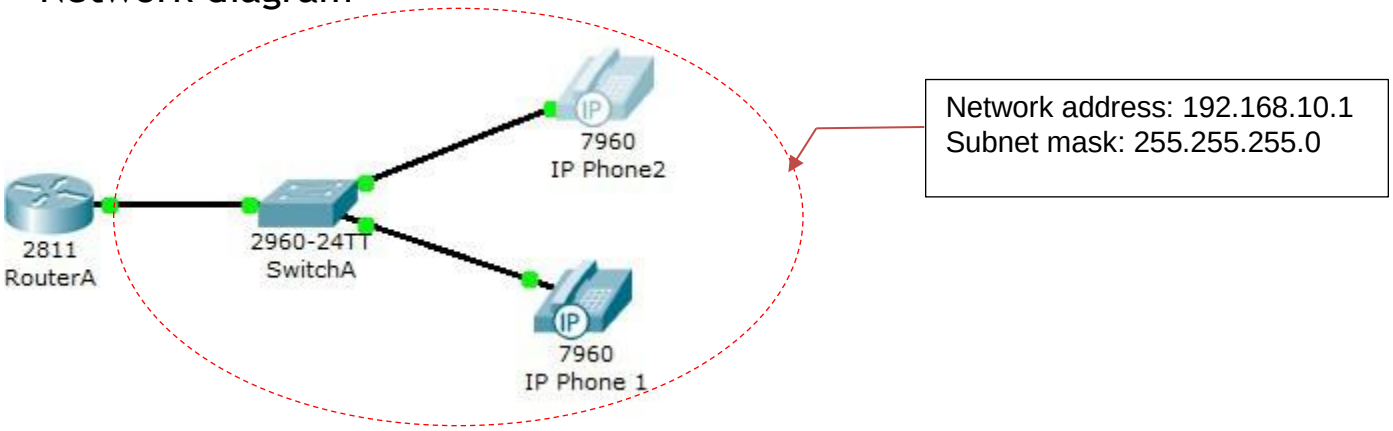
Packet Tracer tutorial - IP telephony basic configuration

Tutorial description

This tutorial is designed to help you to configure the new voice over ip (voip) features available in Packet Tracer. It will show you the steps required to:

- Configure Call Manager ExpressTM on a 2811 router,
- Use the various telephony devices.
- Establish a phone call between ephone devices

Network diagram



Note: Connect only IP Phone 1 at the beginning of the lab. IP Phone 2 must be disconnected.

Tasks 1: Configuring devices.

- configure interface FastEthernet 0/0 of router A as the default gateway
- configure DHCP server on Router A (2811) to automatically attribute IP addresses to ephones. Consider 192.168.10.1 as the default route
- configure the router's ip default gateway as the default TFTP server ip address from where the ip phones will download their default configuration parameters.

Tasks 2: Configure the Call Manager Express telephony service (VoIP server) on RouterA

- enter the telephony mode.
- configure the maximum number of directory numbers

- configure the maximum number of ephones in the system
- Automatically assign dn tags 4 to 6 and 1 to 5 to the dn lines

Task 4: Configure a voice vlan on SwitchA

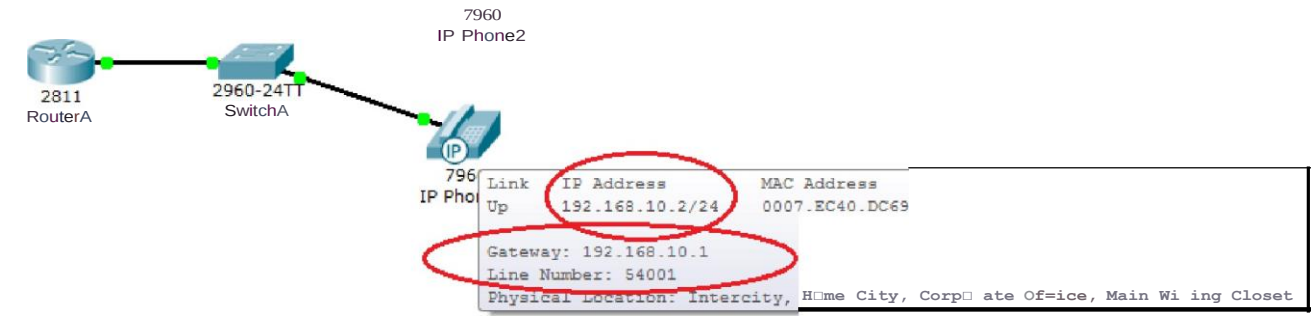
- to enable the QoS, we should separate the voice traffic from all the other traffics on the network. For this purpose, we configure the voice vlan on the switch and assign the telephone ports to that specific vlan.

Task 5: Configure the phone directory for IP Phones 1 and 2

- Assign phone numbers 54001 and 54002 respectively to ephone line 1 (phone line for ephone 1) and ephone line 2 ()to phone lines created.

Task 6: Verify the configuration

- Verify that the IP addresses have automatically been attributed to IP phones
- Verify that the phone numbers have been attributed.
- From ephone 1, deal ephone 2's phone number
- Establish the communication between ephone 1 and ephone 2


7960
IP Phone2
2811
RouterA
2960-24TT
SwitchA
796
IP Pho
Link IP Address MAC Address
Up 192.168.10.2/24 0007.EC40.DC69
Gateway: 192.168.10.1
Line Number: 54001
Physical Location: Intercity, H me City, Corp ate Of=ice, Main Wi ing Closet


GUI
01:02 a 03.01.93
54001
Do
Re
Mi
VOLUME
HEADSET
MUTE
SPEAKER