



NU FAIRVIEW

School of Engineering and Technology

SWEDENET

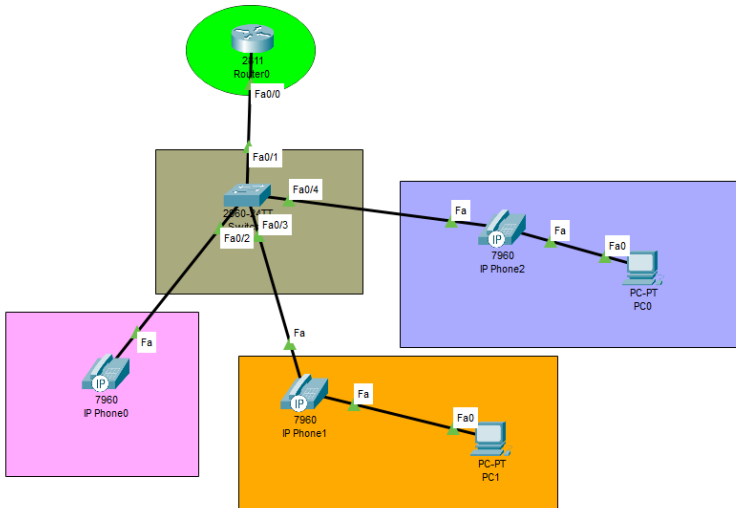
VIOP PC TO PHONE BASIC NETWORK CONFIGURATIONRUN BOOK CONFIGURATION RUN BOOK

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SECTION: IT -234

VIOP PC TO PHONE BASIC NETWORK CONFIGURATION
RUN BOOK

REMIGIO
11/18/2025



ROUTER CONFIGURATION

Router0

Physical Config CLI Attributes

IOS Command Line Interface

```
Router>enable
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#host ephone
ephone(config)#interface fa0/0
ephone(config-if)#ip address 192.168.0.1 255.255.255.0
ephone(config-if)#no shut

ephone(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

ephone(config-if)#ip dhcp pool ephone
ephone(dhcp-config)#network 192.168.0.0 255.255.255.0
ephone(dhcp-config)#option 150 ip 192.168.0.1
ephone(dhcp-config)#default 192.168.0.1
ephone(dhcp-config)#ex
ephone(config)#telephony-service
ephone(config-telephony)#max-ephone 5
ephone(config-telephony)#max-dn 5
ephone(config-telephony)#ip source-address 192.168.0.1 port 2000
ephone(config-telephony)#auto assign 4 to 6
ephone(config-telephony)#auto assign 1 to 5
ephone(config-telephony)#exit
ephone(config)#ephone-dn 1
ephone(config-ephone-dn)%LINK-3-UPDOWN: Interface ephone_dsp DN 1.1, changed state to up

ephone(config-ephone-dn)#number 0001
ephone(config-ephone-dn)#exit
ephone(config)#ephone-dn 2
ephone(config-ephone-dn)%LINK-3-UPDOWN: Interface ephone_dsp DN 2.1, changed state to up

ephone(config-ephone-dn)#number 0002
ephone(config-ephone-dn)#exit
ephone(config)#ephone-dn 3
ephone(config-ephone-dn)%LINK-3-UPDOWN: Interface ephone_dsp DN 3.1, changed state to up

ephone(config-ephone-dn)#number 0003
ephone(config-ephone-dn)#
```

Copy Paste

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SWITCH CONFIGURATION

Switch0

Physical

Config

CLI

Attributes

IOS Command Line Interface

Version ID : V02

CLEI Code Number : COM3L00BRA

Hardware Board Revision Number : 0x01

Switch Ports Model	SW Version	SW Image
-----	-----	-----
* 1 26 WS-C2960-24TT-L	15.0(2)SE4	C2960-LANBASEK9-M

Cisco IOS Software, C2960 Software (C2960-LANBASEK9-M), Version 15.0(2)SE4, RELEASE SOFTWARE (fc1)

Technical Support: <http://www.cisco.com/techsupport>

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Compiled Wed 26-Jun-13 02:49 by mnguyen

Press RETURN to get started!

%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up

%LINK-5-CHANGED: Interface FastEthernet0/3, changed state to up

%LINK-5-CHANGED: Interface FastEthernet0/4, changed state to up

%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

Switch>en

Switch#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#interface range fa 0/1-24

Switch(config-if-range)#switchport mode access

Switch(config-if-range)#switchport voice vlan 1

Switch(config-if-range)#

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PC CONFIGURATION

PC0

PC0

Physical

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Desktop

Programming

Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

Bluetooth

FastEthernet0

Port Status

☒ On

Bandwidth

☒ 100 Mbps

☐ 10 Mbps

Duplex

☐ Half Duplex

☒ Full Duplex

MAC Address

0050.0FD8.C370

IP Configuration

☒ DHCP

☐ Static

IPv4 Address

192.168.0.5

Subnet Mask

255.255.255.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

Link Local Address

FE80::250:FFF:FED8:C370

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11/18/2025

PC1

PC1

Physical

Config

Desktop

Programming

Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

Bluetooth

FastEthernet0

Port Status

☒ On

Bandwidth

☒ 100 Mbps

☐ 10 Mbps

Duplex

☐ Half Duplex

☒ Full Duplex

MAC Address

000A.F3D4.EED8

IP Configuration

☐ DHCP

☒ Static

IPv4 Address

192.168.0.10

Subnet Mask

255.255.255.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

Link Local Address

FE80::20A:F3FF:FED4:EED8

Default Gateway

192.168.0.1



PC TEST

PC0

PC0

PhysicalConfigDesktopProgrammingAttributes

Command Prompt

Cisco Packet Tracer PC Command Line 1.0

C:\>ipconfig

FastEthernet0 Connection:(default port)

Connection-specific DNS Suffix...:

Link-local IPv6 Address.....: FE80::250:FFF:FEDB:C370

IPv6 Address.....: ::

IPv4 Address.....: 192.168.0.5

Subnet Mask.....: 255.255.255.0

Default Gateway.....: ::

192.168.0.1

Bluetooth Connection:

Connection-specific DNS Suffix...:

Link-local IPv6 Address.....: ::

IPv6 Address.....: ::

IPv4 Address.....: 0.0.0.0

Subnet Mask.....: 0.0.0.0

Default Gateway.....: ::

0.0.0.0

C:\>ping 192.168.0.10

Pinging 192.168.0.10 with 32 bytes of data:

Reply from 192.168.0.10: bytes=32 time<lms TTL=128

Reply from 192.168.0.10: bytes=32 time<lms TTL=128

Reply from 192.168.0.10: bytes=32 time<lms TTL=128

Reply from 192.168.0.10: bytes=32 time<lms TTL=128

Ping statistics for 192.168.0.10:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 0ms, Average = 0ms

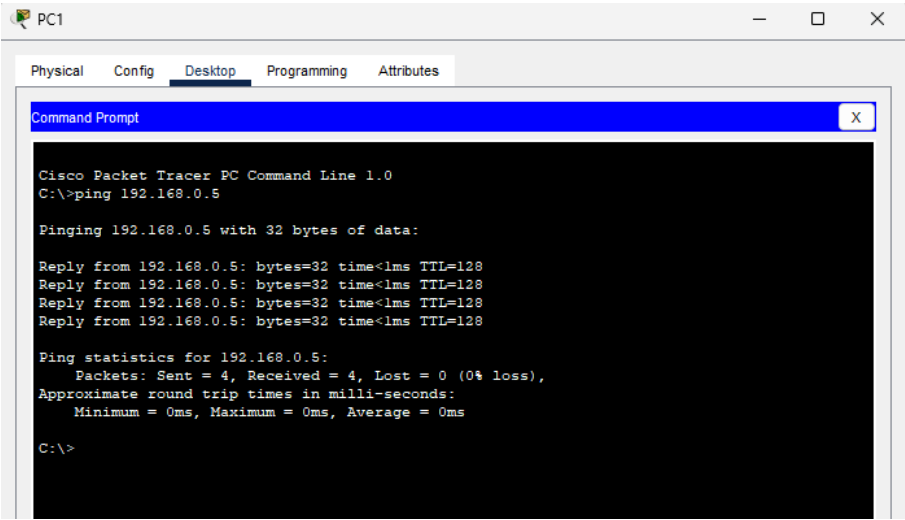
C:\>

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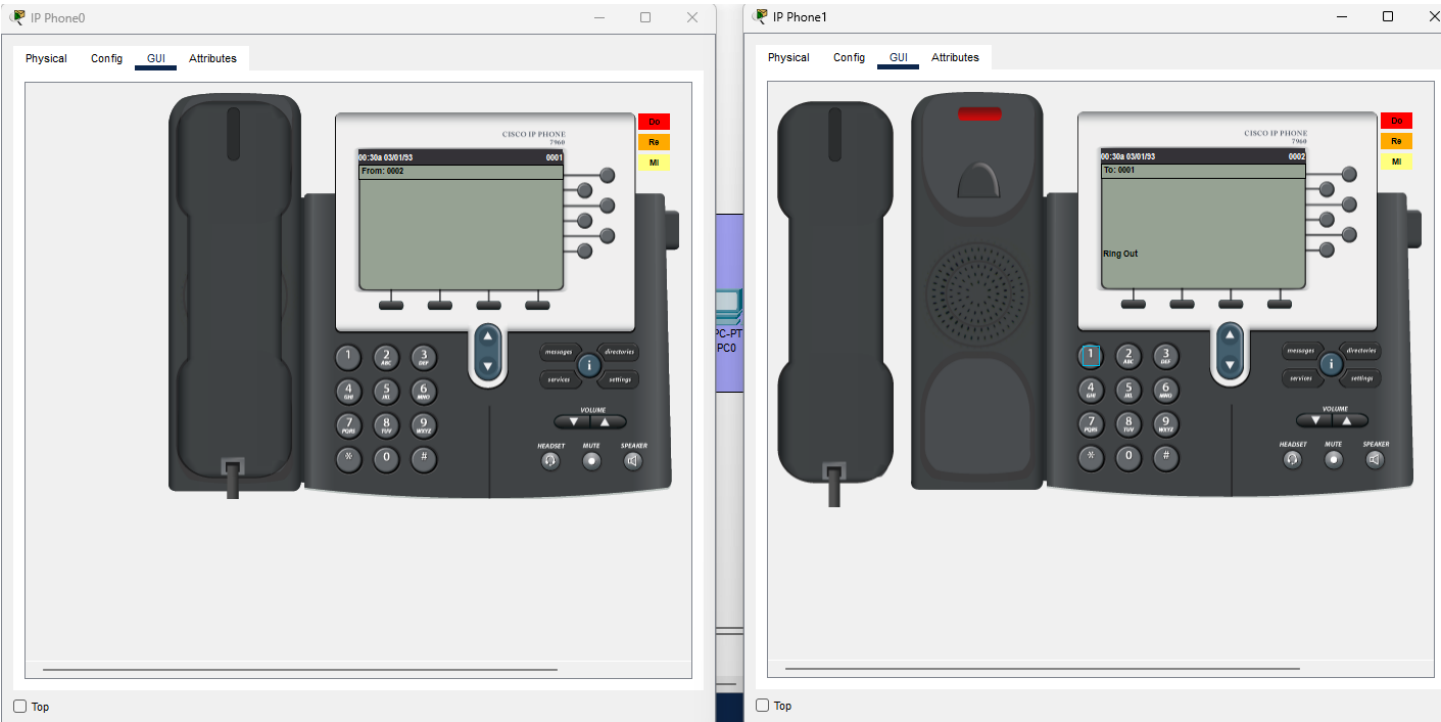
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
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PC1



IP PHONE TEST





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IP Phone0

Physical Config GUI Attributes

CISCO IP PHONE 7900

00:29a 030103 0001

To: 0003

Ring Out

1 2 3

4 5 6

7 8 9

* 0 #

messages

directory

services

settings

VOLUME

HEADSET MUTE SPEAKER

Top

IP Phone2

Physical Config GUI Attributes

CISCO IP PHONE 7900

00:29a 030103 0003

From: 0001

1 2 3

4 5 6

7 8 9

* 0 #

messages

directory

services

settings

VOLUME

HEADSET MUTE SPEAKER

Top

IP Phone1

Physical Config GUI Attributes

CISCO IP PHONE 7900

00:31a 030103 0002

To: 0003

Ring Out

1 2 3

4 5 6

7 8 9

* 0 #

messages

directory

services

settings

VOLUME

HEADSET MUTE SPEAKER

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IP Phone2

Physical Config GUI Attributes

CISCO IP PHONE 7900

00:31a 030103 0002

From: 0002

The phone is ringing

1 2 3

4 5 6

7 8 9

* 0 #

messages

directory

services

settings

VOLUME

HEADSET MUTE SPEAKER

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