

Set up a IP Phone connection



For this Set up will use a Polycom Soundpoint IP 331 SIP and as a secondary phone will use a Virtual IP Phone prove that the system work.

Requirements:

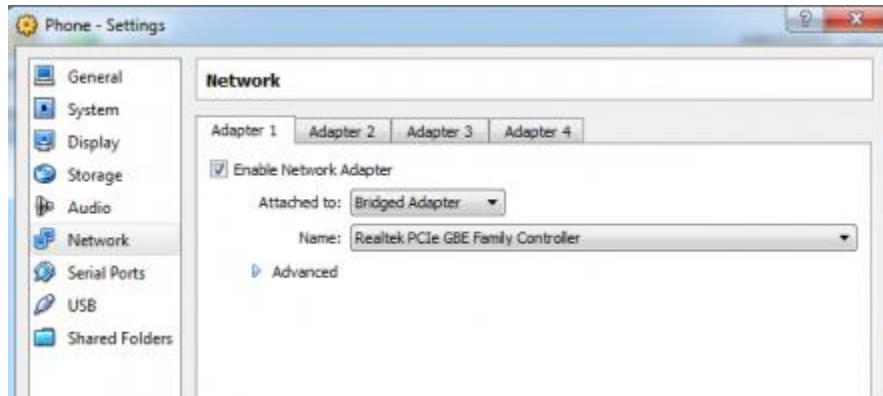
- [Trixbox Server](#)
- IP Phone that support SIP configuration
- [Virtual IP Phone](#)
- Router
- [VirtualBox](#) for the server (optional)
- Browser

This set up was made using the operating system Widows 7 but you can also use Ubuntu or other kind of O.S., the only small difference will be the browser and to download the right software.

Let`s get Started

First take a router and connect it to your PC. Be sure that the router is connecting to the internet for an easy access to the software that supposed to be downloaded.

Install VirtualBox into your computer and download the TrixBOS Image. After that is done create a virtual machine for TrixBOS. Before to get starting installing image you need to make your virtual machine visible by the router for the will use a Bridged Adapter connection.



Ok, Install the image and remove it when is done. To check if TrixBOS is working start the server and after it`s finish loading you will receive an IP address. The address is allocated dynamical but you also can configure the server for a static address.

```
Welcome to trixbos CE
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For access to the trixbos web GUI use this URL
eth0 http://192.168.1.119

For help on trixbos commands you can use from this
command shell type help-tribbos.

tribbox1 login: /var/www/html/panel/safe_opserver: line 7: 2435 Terminated
$FOPWEBROOT/op_server.pl
/var/www/html/panel/safe_opserver: line 7: 2955 Terminated $FOPWEB
ROOT/op_server.pl
```

Next step is to register two SIP devices. For that will access the WEB GUI server using the IP address. The username is "maint" and the password is "password". Go to PBX and chose Extensions.

System Status Packages PBX System Settings Help

Admin Reports Panel Recordings Help

Setup Tools

System Status

Module Admin

Basic

Extensions

Feature Codes

General Settings

Outbound Routes

Support

Add an Extension

Please select your Device below then click Submit

Device

Device: Generic SIP Device

Submit

To add an extension is very simple you only need to fill some forms like password and alias.

Edit Extension

Display Name: 2222

CID Num Alias:

SIP Alias: 2222

Device Options

This device uses sip technology.

secret: 2222

dtmfmode: rfc2833

Add two devices and apply the change. Maybe is necessary to restart the server. To check if the extension works, install the virtual IP Phone and add the account info. The domain name is the IP address of the trixbox server.

If all is working until now you can go to the last step: connect the IP Phone to the router and configure it.

Connect the IP Phone to the router and turn the power on. After loading he's boot file you should receive an IP address that will allow you to use a web interface to configure the phone.

If the IP Phone don't show an IP address after booting that means that the boot file have some error and you need to flash it or change the IP phone.


If you have problem to access the web interface try to configure the phone from he's own interface. It's a little trouble with this kind of configuration because the IP phone have problems to save the configuration rightly. Restart the phone and try again.

Try several times to configure the IP phone by checking what information was saved correctly and what not. In the same time after booting try to access the web interface because will be much simpler to make the configuration.

The IP Phone have some problem to save the new configuration, but I don't know why. **The key is to be insistent.**

Now let`s say that you are lucky and access the web interface. The username is “Polycom” and the password is “456”.

You need to configure the server and the account for the IP Phone. To be more easily to understand I attach to pictures:

 **POLYCOM**

SoundPoint IP Configuration

HomeGeneralNetworkSIPLines

SIP Configuration Parameters:

ServersLocal Settings

Servers

Outbound Proxy

Address

192.168.1.119

Port

5060

Transport

DNSnaptr

Server 1

Address

192.168.1.119

Port

5060

Transport

TCPonly

Expires

120

Register

1

Retry Time Out

0

Retry Max Count


0

Line Seize Time Out

30

Server 2

Address


POLYCOM

SoundPoint IP Configuration

Home
General
Network
SIP
Lines

Line Parameters:

Line 1
Line 2

Line 1

Identification

Display Name

2435

Address

2435

Auth User ID

2435

Auth Password

••••

Label

Type

☒ Private
☐ Shared

Third Party Name

Num Line Keys

1

Calls Per Line

2

Server 1

Address

192.168.1.119

Port

5060

Transport

DNSnaptr ▼

Expires

3600

Register

1

After saving the configuration and restarting the phone, be sure to check again if all is saved correctly.

When all is done you can start calling from the IP Phone to the virtual one and vice versa, also you can add more IP Phone if you have or to talk with your college from work if you have an android phone and an IP phone android application.

Documentation: [BabloTech](#)