Install on the RasPBX

A 4GB card is required. First download the image disk to flash it in your MicroSD.

Get it from :

- Downloads (from raspberry-asterisk.org)

The latest image available for download is based on Raspbian (Debian 8 / Jessie) and includes:

- SD Image name raspbx-22-09-2016.zip (for 4Go microSD)
- Asterisk 13.11.2
- FreePBX 13.0.188.8

Follow those instruction to flash the SD image :

- Flash Image (from raspberrypi.org)

If you want to connect you raspberry with Wifi, please follow those steps :

- Configure Wifi (from raspberrypi.org)

RasPBX already install Asterisk with FreePBX so you only need to complete your installation with the Voximal package :

Get it from :

- Lastest Voximal/Rasberry package

Connect to SSH (raspbx/raspberry) to complete the installation with the Voximal installer package. The default login acces is :

SSH login:

- user: root
- password: raspberry

Default FreePBX login:

- user: admin
- password: admin

```
Raspbian GNU/Linux8 raspbx tty1

raspbx login : root
Password:
```

```
Welcome to RasPBX - Asterisk for Raspberry Pi

RasPBX is based on Debian. The programs included with the Debian GNU/Linux
system are free software; the exact distribution terms for each program are
described in the individual files in /usr/share/doc/*/copyright.

RasPBX comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

List of RasPBX specific commands:
--------------------------------------------------------------------------
-
raspbx-upgrade      Keep your system up to date with the latest add-ons and
                    security fixes
configure-timezone  Set timezone for both system and PHP
install-fax         Install HylaFAX
add-fax-extension   Add additional fax extension for use with HylaFAX
install-fail2ban    Install Fail2Ban for additional security
install-dongle      Install GSM/3G calling capability with chan_dongle
raspbx-backup       Backup your complete system to an image file

Last login: Sat Mar  5 18:56:10 2016
```

Once your RasPBX has successfully booted, run this command on the console to install the latest
additions and improvements:

```
root@raspbx:~# raspbx-upgrade
RasPBX upgrade tool
Run "raspbx-upgrade --help" for additional options
Base version: 06-03-2016
Installed upgrade:       21
Local upgrade available:  21
Online upgrade available: 24
Running apt-get update && apt-get dist-upgrade.

... (lot of logs...)

132 upgraded, 2 newly installed, 0 to remove and 0 not upgraded.
Need to get 164 MB of archives.
After this operation, 10.4 MB of additional disk space will be used.
Do you want to continue? [Y/n] y

... (installing packages...)

Setting up libraspberrypi0 (1.20160620-1) ...
Setting up libraspberrypi-dev (1.20160620-1) ...
Setting up libraspberrypi-doc (1.20160620-1) ...
Setting up libraspberrypi-bin (1.20160620-1) ...
Setting up raspbx-upgrade (1.0-43) ...
Setting up raspi-config (20160527) ...
Installing new version of config file /etc/init.d/raspi-config ...
```

```
Processing triggers for initramfs-tools (0.120+deb8u2) ...
Processing triggers for libc-bin (2.19-18+deb8u4) ...
Processing triggers for systemd (215-17+deb8u4) ...
Installing upgrade 22.
-----------------------------------------------------------------------
Fixing Asterisk startup problems in recent 2016 images
-----------------------------------------------------------------------
Installing upgrade 23.
-----------------------------------------------------------------------
Increasing swap size to 200MB; installing en_US locale
-----------------------------------------------------------------------
Generating locales (this might take a while)...
  en_GB.UTF-8... done
  en_US.UTF-8... done
Generation complete.
Installing upgrade 24.
-----------------------------------------------------------------------
1. Updating GPG keys for FreePBX
2. Enabling Apache2 rewrite module
-----------------------------------------------------------------------
gpg: refreshing 2 keys from hkp://pool.sks-keyservers.net
gpg: requesting key 69D2EAD9 from hkp server pool.sks-keyservers.net
gpg: requesting key B33B4659 from hkp server pool.sks-keyservers.net
gpg: key 69D2EAD9: "FreePBX Mirror 1 (Module Signing - 2014/2015)
<security@freepbx.org>" 2 new signatures
gpg: key B33B4659: "FreePBX Module Signing (This is the master key to sign
FreePBX Modules) <modules@freepbx.org>" 2 new signatures
gpg: Total number processed: 2
gpg:          new signatures: 4
gpg: 3 marginal(s) needed, 1 complete(s) needed, PGP trust model
gpg: depth: 0  valid:   1  signed:   1  trust: 0-, 0q, 0n, 0m, 0f, 1u
gpg: depth: 1  valid:   1  signed:   0  trust: 0-, 0q, 0n, 1m, 0f, 0u
Enabling module rewrite.
To activate the new configuration, you need to run:
  service apache2 restart
Finishing RasPBX upgrades installation, installed version is now: 24
root@raspbx:~#
```

You can directly download the Voximal package with the wget tool :

```
root@raspbx:~# wget
http://downloads.voximal.com/voximal/raspbian8/armhf/latest.tar.gz
--2016-09-13 16:52:21--
http://downloads.voximal.com/voximal/raspbian8/armhf/latest.tar.gz
Resolving downloads.voximal.com (downloads.voximal.com)... 84.246.228.252,
2a02:23e0:0:4:9458:e0ff:feb7:e457
Connecting to downloads.voximal.com
(downloads.voximal.com)|84.246.228.252|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 7819312 (7.5M) [application/x-gzip]
Saving to: 'latest.tar.gz'
```

```
latest.tar.gz           100%[=====================>]    7.46M  3.34MB/s    in 2.2s

2016-09-13 16:52:23 (3.34 MB/s) - 'latest.tar.gz' saved [7819312/7819312]
```

Untar and execute the installation script :

```
root@raspbx:~# tar xfz latest.tar.gz
root@raspbx:~# cd voximal_14.0_20160913_0voximal144raspbian8_armhf/
root@raspbx:~/voximal_14.0_20160913_0voximal144raspbian8_armhf# ./install.sh
Current Asterisk : '11.23.0.'
Module found: app_voximal.so.asterisk_v11.23.0
Asterisk 11.23.0 installed.
| core                | 13.0.57   | Enabled |
--- Voximal V14.0 Installation ---
Creating directories...
Installing binaries...
Installing a vxml sample /var/lib/voximal/helloworld.vxml
Installing default voximal.conf...
Installing libraries...
Installing app vxml for asterisk 11...
Installing sounds...
```