

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

Install on the RasPBX suite

Follow those instruction to flash the SD image :

- [Flash Image \(from raspberrypi.org\)](#)

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:~#
```

Install the Voximal module

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](#)

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 xzf latest.tar.gz  
root@raspbx:~# cd voximal_14.0_2016xxxx_0voximalxxxraspbian8_armhf/  
root@raspbx:~/voximal_14.0_2016xxxx_0voximalxxxraspbian8_armhf# ./install.sh  
Compatible module found : app_voximal.so.asterisk_v13.11.2  
--- Voximal V14.0 Installation ---  
Creating directories  
Installing binaries  
Installing VoiceXML examples  
Installing default voximal.conf  
Installing libraries  
Installing Voximal module for asterisk  
Installing additional sounds  
User asterisk exists, set permissions  
Restarting asterisk.....  
Configuring VoiceXML examples  
Installing Voximal FreePBX module  
Configuring Voximal FreePBX module  
Adding accounts...  
- Account "helloworld" added  
- Extension 8965 added  
Wildcard extension added  
Voximal license updated  
Voximal configuration updated  
Voximal TTS configuration parsed  
Generating CSS...Done  
Module voximal successfully installed  
Updating Hooks...Done  
Reloading FreePBX  
Successfully reloaded  
--- Voximal V14.0 installation has finished ---
```

Connect with WIFI (option)

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

- [Configure Wifi \(from raspberrypi.org\)](https://www.raspberrypi.org/)

Add a 3G dongle (option)

You can use the integrated dongle channel to get calls from a plug.

```
root@raspbx:~# install-dongle
Installing GSM VoIP gateway with chan_dongle.
Please read the documentation at http://raspbx.org/dongle

Please enter the phone number of your SIM card
(defaults to +1234567890 if left blank):
Send incoming SMS to email address
(leave empty to disable SMS forwarding):
Forward incoming SMS to mobile phone number (via dongle0)
(leave empty to disable):
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  libjim0.75 usb-modeswitch-data
Suggested packages:
  comgt wvdial
The following NEW packages will be installed:
  asterisk13-chandongle libjim0.75 usb-modeswitch usb-modeswitch-data
0 upgraded, 4 newly installed, 0 to remove and 0 not upgraded.
Need to get 259 kB of archives.
After this operation, 778 kB of additional disk space will be used.
Get:1 http://repo.raspbx.org/apt/debian/ jessie/main asterisk13-chandongle
all 1.1-34 [67.4 kB]
Get:2 http://mirrordirector.raspbian.org/raspbian/ jessie/main libjim0.75
armhf 0.75-1 [98.3 kB]
Get:3 http://mirrordirector.raspbian.org/raspbian/ jessie/main usb-
modeswitch-data all 20150115-1 [41.5 kB]
Get:4 http://mirrordirector.raspbian.org/raspbian/ jessie/main usb-
modeswitch armhf 2.2.0+repack0-2 [51.4 kB]
Fetched 259 kB in 0s (286 kB/s)
Selecting previously unselected package libjim0.75:armhf.
(Reading database ... 49894 files and directories currently installed.)
Preparing to unpack .../libjim0.75_0.75-1_armhf.deb ...
Unpacking libjim0.75:armhf (0.75-1) ...
Selecting previously unselected package asterisk13-chandongle.
Preparing to unpack .../asterisk13-chandongle_1.1-34_all.deb ...
Unpacking asterisk13-chandongle (1.1-34) ...
Selecting previously unselected package usb-modeswitch-data.
Preparing to unpack .../usb-modeswitch-data_20150115-1_all.deb ...
Unpacking usb-modeswitch-data (20150115-1) ...
Selecting previously unselected package usb-modeswitch.
Preparing to unpack .../usb-modeswitch_2.2.0+repack0-2_armhf.deb ...
Unpacking usb-modeswitch (2.2.0+repack0-2) ...
Processing triggers for man-db (2.7.0.2-5) ...
Setting up libjim0.75:armhf (0.75-1) ...
```

```
Setting up asterisk13-chandongle (1.1-34) ...
Setting up usb-modeswitch-data (20150115-1) ...
Setting up usb-modeswitch (2.2.0+repack0-2) ...
Processing triggers for libc-bin (2.19-18+deb8u6) ...
Saving previous contents of /etc/asterisk/extensions_custom.conf to
/etc/asterisk/extensions_custom.conf.orig
Storing received SMS in /var/log/asterisk/sms.txt
```

```
Would you like to install a webpage for sending SMS with
chan_dongle? (http://raspbx/sms/) [y/N] n
```

Please wait...

```
!!!!amportal is depreciated. Please use fwconsole!!!!
forwarding all commands to 'fwconsole'
Running FreePBX shutdown...
```

```
Shutting down Asterisk Gracefully. Will forcefully kill after 30 seconds.
Press C to Cancel
```

```
Press N to shut down NOW
```

```
[=====] 1 sec
```

```
Running FreePBX startup...
```

```
Starting Asterisk...
```

```
[=====] 57 secs
```

```
Asterisk Started
```

```
Your configuration has been saved successfully to these files:
/etc/asterisk/dongle.conf
```

```
root@raspbx:~#
```

From:

<https://wiki.voximal.com/> - **Voximal documentation**

Permanent link:

https://wiki.voximal.com/doku.php?id=installation_guide:raspbx&rev=1478356625

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