

Installing FreePBX 2.11 on Ubuntu 12.04 Server (Precise Pangolin)

Install Ubuntu 12.04 Server LTS 32 or 64-bit

Commercial Modules

Commercial modules and add-ons are not currently supported on the Ubuntu platform. Commercial Modules can be purchased in the FreePBX Distro Market Place and are only supported on the FreePBX Distro platform.

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Initial System Setup

Configure your root password.

```
sudo passwd root
```

Switch to the Root User

```
sudo -i
```

Update Your System

```
apt-get update && sudo apt-get upgrade -y
```

Install Required Dependencies

```
apt-get install -y build-essential linux-headers-`uname -r` openssh-server
apache2 mysql-server mysql-client bison flex php5 php5-curl php5-cli php5-
mysql php-pear php-db php5-gd curl sox libncurses5-dev libssl-dev
libmysqlclient15-dev mpg123 libxml2-dev libnewt-dev sqlite3 libsqlite3-dev
pkg-config automake libtool autoconf git subversion uuid uuid-dev
```

Install PearDB

```
pear uninstall db
pear install db-1.7.14
```

You may receive a warning:

```
WARNING: "pear/DB" is deprecated in favor of "pear/MDB2"
```

At this time it is safe to ignore that message

Reboot server

```
reboot
```

Install Dependencies for Google Voice

Install iksemel

```
cd /usr/src
wget https://iksemel.googlecode.com/files/iksemel-1.4.tar.gz
tar xf iksemel-1.4.tar.gz
cd iksemel-*
./configure
make
make install
```

Install and Configure Asterisk

Download Asterisk source files.

```
cd /usr/src
wget http://downloads.asterisk.org/pub/telephony/dahdi-linux-complete
/dahdi-linux-complete-current.tar.gz
wget http://downloads.asterisk.org/pub/telephony/libpri/libpri-1.4-current.
tar.gz
wget http://downloads.asterisk.org/pub/telephony/asterisk/asterisk-11-
current.tar.gz
```

Compile and install DAHDI.

```
cd /usr/src
tar xvfz dahdi-linux-complete-current.tar.gz
cd dahdi-linux-complete-*
make all
make install
make config
```

Compile and install LIBPRI.

```
cd /usr/src
tar xvfz libpri-1.4-current.tar.gz
cd libpri-*
make
make install
```

Compile and install Asterisk

```
cd /usr/src
tar xvfz asterisk-11-current.tar.gz
cd asterisk-*
./configure
contrib/scripts/get_mp3_source.sh
make menuselect
make
make install
make config
```

Install Asterisk-Extra-Sounds

```
cd /var/lib/asterisk/sounds
wget http://downloads.asterisk.org/pub/telephony/sounds/asterisk-extra-
sounds-en-gsm-current.tar.gz
tar xfz asterisk-extra-sounds-en-gsm-current.tar.gz
rm asterisk-extra-sounds-en-gsm-current.tar.gz
```

Install and Configure FreePBX

Download and extract FreePBX.

```
cd /usr/src && wget http://mirror.freepbx.org/freepbx-2.11.0.43.tgz
tar vxzf freepbx-2.11.0.43.tgz
```

Now create the Asterisk user and set ownership permissions.

```
adduser asterisk --disabled-password --gecos "Asterisk User"
chown asterisk. /var/run/asterisk
chown -R asterisk. /etc/asterisk
chown -R asterisk. /var/{lib,log,spool}/asterisk
chown -R asterisk. /usr/lib/asterisk
mkdir /var/www/html
chown -R asterisk. /var/www/
```

A few small modifications to Apache.

```
sed -i 's/(\^upload_max_filesize = \).*\/120M/' /etc/php5/apache2/php.ini
cp /etc/apache2/apache2.conf /etc/apache2/apache2.conf_orig
sed -i 's/^\(User\|Group\).*\/1 asterisk/' /etc/apache2/apache2.conf
service apache2 restart
```

Configure Asterisk database in MYSQL.

```
export ASTERISK_DB_PW=amp109
mysqladmin -u root create asterisk -p
mysqladmin -u root create asteriskcdrdb -p
mysql -u root asterisk -p < SQL/newinstall.sql
mysql -u root asteriskcdrdb -p < SQL/cdr_mysql_table.sql
```

Set permissions on MYSQL database.

```
mysql -u root -p -e "GRANT ALL PRIVILEGES ON asterisk.* TO
asteriskuser@localhost IDENTIFIED BY '${ASTERISK_DB_PW}';"
mysql -u root -p -e "GRANT ALL PRIVILEGES ON asteriskcdrdb.* TO
asteriskuser@localhost IDENTIFIED BY '${ASTERISK_DB_PW}';"
mysql -u root -p -e "flush privileges;"
```

Restart Asterisk and install FreePBX.

```
./start_asterisk start
./install_amp --webroot /var/www
amportal a ma installall
amportal a reload
```

** If “./install_amp” fails to run correctly, in terminal type:

```
./install_amp --username=asteriskuser --password=$ASTERISK_DB_PW --
webroot /var/www
```

Finally, one last mod and start FreePBX.

```
ln -s /var/lib/asterisk/moh /var/lib/asterisk/mohmp3
amportal start
```

Start FreePBX

Navigate:

<http://yourlocalipaddress/html> or if you prefer <http://localhost/admin>

After you enable and update the modules in FreePBX You might see the following error.

Symlink from modules failed

To correct this error do the following:

Delete the list of failed files

```
cd /etc/asterisk
rm ccss.conf confbridge.conf features.conf sip.conf iax.conf logger.
conf extensions.conf sip_notify.conf
```

Then on the FreePBX webUI go to the 'Module Admin' and uninstall and reinstall the 'Camp On' module. This should resolve the Symlink issue.