



Conflux Professional
Technical Documentation
Installation Guide

1. Recommended Hardware Setup

Conflux Professional typically required a processor based on the Intel x86 or AMD64 architecture to run on. The optimal amount of hardware resources depends on the number of concurrent users actively using the software installation.

Number of concurrent users	Processor	RAM	Disk setup	Network connectivity
1-10	PIII 1GHz	256 MB	IDE No RAID/RAID1	10/100Mbit
11-25	PIII 1GHz+	512MB	IDE No RAID/RAID1	100Mbit
26-50	P4 2GHz	512MB	IDE RAID1/10	100Mbit
59-100	Xeon 1.8GHz Opteron 242	512-1024MB	SCSI No RAID or RAID0	100Mbit
101-150	(Dual) Xeon/Opteron	1024MB	SCSI RAID1/5/10	100/1000Mbit
200+	Dual Xeon/Opteron	2048MB	SCSI RAID5/10	100/1000Mbit

Tested and supported processor platforms are:

- Intel Pentium III
- Intel Pentium 4
- Intel Xeon
- AMD Athlon
- AMD Opteron

2. Software Requirements

2.1 Operating System

Conflux Professional is designed to run on x86-compatible Linux platforms. In general, all Unix-like operating systems that support Apache2, Python and PostgreSQL will most likely be suitable for running Conflux, but official support is only offered according to the table below.

Operating System	Intel PIII/P4/Xeon	AMD Athlon	AMD Opteron (64 bit mode)	IBM G5
SUSE 9.0				N/A
SUSE 9.1				N/A
SUSE 9.2				N&A
Red Hat 9	!	!	N/A	N/A
Fedora Core 1	!	!	!	N/A
Fedora Core 2*				N/A
Fedora Core 3*				N/A
Fedora Core 4*				N/A
RHEL 3	!	!	!	N/A
Debian sarge/sid	!!	!!	!!	N/A
Gentoo	!!	!!	!!	N/A
FreeBSD	!!	!!	!!	N/A
OS X	N/A	N/A	N/A	!!
Solaris	!!	!!	N/A	N/A

 – supported platform

! – supported, but requires upgrades from standard OS component versions

!! – not officially supported, but reported to be working

N/A – not supported

* - Fedora Core distributions are currently only supported with **SELinux turned off**.

2.2 Software components

The following non-included software components are required for running Conflux Professional:

- Apache2 webserver
Version: 2.0.x
Source: distribution package or <http://httpd.apache.org/>
Notes: Conflux requires the Apache2 server to run in prefork mode. Any other run modes (threaded included) are not supported.
- Python programming language
Version: 2.3.x
Source: distribution package or <http://www.python.org/>
- Python Imaging Library
Version: 1.1.4 or 1.1.5
Source: distribution package or <http://www.pythonware.com/products/pil/>
- mod_python, the Apache2/Python integration module
Version: 3.0.x, 3.1.x or 3.2.x
Source: distribution package or <http://www.modpython.org/>
Notes: Versions 2.x.x of mod_python are currently not supported, as they only run on Apache 1.3.
- PostgreSQL database engine
Version: 7.3.x, 7.4.x, 8.0.x or 8.1.x
Source: distribution package or <http://www.postgresql.org/>
Notes: The plpgsql procedural language is required. This feature is typically in a separate package in Linux distributions, named postgresql-pl.
- mxDateTime extensions for Python
Version: 2.0.4 or later
Source: distribution package or <http://www.egenix.com/files/python/mxDateTime.html>
- Psycopg Python database adapter for PostgreSQL
Version: 1.1.16 or later
Source: distribution package or <http://www.initd.org/software/initd/psycopg/>
- For full-text indexing of Microsoft Word documents: wvWare wv toolset
Version: 1.0.3 or later
Source: distribution package or <http://sourceforge.net/projects/wvware/>
- For full-text indexing of Adobe PDF documents: xpdf
Version: 2 or later
Source: distribution package or <http://www.foolabs.com/xpdf/>

3. Installation

This section contains detailed step-by-step installation guides for supported Linux distributions. If your distribution is currently not supported, please contact Inversion Software for technical support or try to follow the general guidelines given below.

3.1 SUSE 9.0 and SUSE 9.1

Required packages:

```
apache2
apache2-mod_python
apache2-prefork
postgresql
postgresql-contrib
postgresql-libs
postgresql-pl
postgresql-server
python
python-egenix-mx-base
python-imaging
python-japanese (for extra language support in e-mail)
python-korean (for extra language support in e-mail)
pyxml
xpdf
xpdf-config
wv
gcc (for compiling psycopg)
make (for compiling psycopg)
python-devel (for compiling psycopg)
postgresql-devel (for compiling for psycopg)
```

Installing psycopg:

```
mkdir ~/tmp
cd ~/tmp/
wget http://initd.org/pub/software/psycopg/psycopg-1.1.21.tar.gz
tar -zxf psycopg-1.1.21.tar.gz
cd psycopg-1.1.21
./configure --with-postgres-includes=/usr/include/pgsql/ \
--with-mxdatetime-includes=/usr/lib/python2.3/site-packages/mx/DateTime/mxDateTime/
make
make install
cd ..
rm -rf psycopg*
```

Installing Conflux Professional, step 1 – filesystem setup:

```
mv confluxpro_crm_1.4.0.tar.gz ~/tmp/  
cd ~/tmp/  
tar -zxf confluxpro_crm_1.4.0.tar.gz  
tar -zxf confluxpro_files.tar.gz  
mv lib/conflux/ /var/lib/  
mv www/html/conflux/ /srv/www/htdocs/  
chown root:root -R /srv/www/htdocs/conflux/ /var/lib/conflux/  
chmod 755 -R /srv/www/htdocs/conflux/ /var/lib/conflux/  
chown wwwrun:www -R /var/lib/conflux/DOCROOT/ \  
/var/lib/conflux/BACKUP/ /var/lib/conflux/DOCBACKUP/ \  
/var/lib/conflux/tmp/
```

If you recently installed the PostgreSQL packages and have not yet started the database, do so to create the default configuration files:

```
/etc/init.d/postgresql start
```

Installing Conflux Professional, step 2 – database setup:

```
# set access to confluxpro database to trust for installation purposes  
joe /var/lib/pgsql/data/pg_hba.conf
```

Add the following line right before the first non-commented line:

```
local confluxpro all trust
```

Restart the database engine:

```
/etc/init.d/postgresql restart
```

Read in the database dump:

- For SUSE 9.0:

```
su postgres  
psql template1  
template1=# create user conflux password 'mypassw' ncreatedb ncreateuser;  
template1=# create database confluxpro with owner=conflux encoding='unicode';  
ctrl-d (exit psql)  
ctrl-d (exit su)  
  
psql confluxpro postgres  
confluxpro=# \i /var/lib/conflux/conflux_pro.init73.sql  
ctrl-d (exit psql)
```

- For SUSE 9.1:

```
su postgres
psql template1
template1=# create user conflux password 'mypassw' ncreatedb ncreateuser;
template1=# create database confluxpro with owner=conflux encoding='unicode';
ctrl-d (exit psql)
ctrl-d (exit su)

psql confluxpro postgres
confluxpro=# \i /var/lib/conflux/conflux_pro.init.sql
ctrl-d (exit psql)
```

Reconfigure the database access:

```
# set access to confluxpro database to trust for installation purposes
joe /var/lib/pgsql/data/pg_hba.conf
```

Change the previously added line to:

```
local confluxpro all password
```

Restart the database engine:

```
/etc/init.d/postgresql restart
```

Make the required changes to `_ConfUser.py`:

```
# set DB_PASS to the password used in 'create user' and BASE_URL to '/conflux/'
joe /var/lib/conflux/lib/_ConfUser.py
```

Run the database updater script:

```
cd /var/lib/conflux/lib/
python2.3 conflux_updater.py
```

Start the Conflux background daemon:

```
chkconfig postgresql on
chkconfig apache2 on
chmod +x /var/lib/conflux/daemon/confluxd
cp /var/lib/conflux/daemon/confluxd /etc/init.d/
chkconfig --add confluxd
/etc/init.d/confluxd start
```

Installing Conflux Professional, step 3 – webserver setup:

```
To enable mod_python, start yast and under System, /etc/sysconfig Editor, Network, WWW, Apache2,
change:
add python to the end of APACHE_MODULES variable
set APACHE_CONF_INCLUDE_DIRS to /etc/apache2/conf.d/
```

Create a configuration file for Apache2:

```
joe /etc/apache2/conf.d/conflux
```

And insert the following contents:

```
<Directory /srv/www/htdocs/conflux/>
  DirectoryIndex index.py
  PythonPath "sys.path+['/var/lib/conflux/lib/']"
  AddHandler python-program .py
  PythonHandler _Publisher
  PythonDebug Off
  DirectoryIndex index.py index.html
</Directory>
```

Restart Apache2:

```
/etc/init.d/apache2 restart
```

You can now log into Conflux at <http://yourserver.com/conflux/>.

Administrator username is 'superuser'.

Administrator default password is 'conflux'.

NB! To avoid any security risks change the password after you log in.

3.2 Red Hat Enterprise Linux 3

Required packages:

```
httpd
httpd-devel
rh-postgresql
rh-postgresql-libs
rh-postgresql-server
rh-postgresql-contrib
rh-postgresql-pl
xpdf
wv
gcc (for compiling)
make (for compiling)
rh-postgresql-devel (for compiling psycopg)
libtool (for compiling mod_python)
libjpeg (for compiling PIL)
```

Installing Python 2.3:

```
wget http://www.python.org/ftp/python/2.3.4/rpms/fedora-1/python2.3-2.3.4-2pydotorg.i386.rpm
wget http://www.python.org/ftp/python/2.3.4/rpms/fedora-1/python2.3-devel-2.3.4-2pydotorg.i386.rpm
rpm -Uhv python2.3-2.3.4-2pydotorg.i386.rpm python2.3-devel-2.3.4-2pydotorg.i386.rpm
rm -f python2.3-2.3.4-2pydotorg.i386.rpm python2.3-devel-2.3.4-2pydotorg.i386.rpm
```

Installing mxDateTime:

```
wget http://www.egenix.com/files/python/egenix-mx-base-2.0.6.tar.gz
tar -zxf egenix-mx-base-2.0.6.tar.gz
cd egenix-mx-base-2.0.6
python2.3 setup.py build
python2.3 setup.py install
cd ..
rm -rf egenix-*
```

Installing psycopg:

```
wget http://initd.org/pub/software/psycopg/psycopg-1.1.21.tar.gz
tar -zxf psycopg-1.1.21.tar.gz
cd psycopg-1.1.21
./configure --with-python=/usr/bin/python2.3 \
  --with-postgres-includes=/usr/include/pgsql/server/ \
  --with-mxdatetime-includes=/usr/lib/python2.3/site-packages/mx/DateTime/mxDateTime/
make
make install
cd ..
rm -rf psycopg*
```

Installing PIL (Python Imaging Library):

```
wget http://effbot.org/downloads/Imaging-1.1.4.tar.gz
tar -zxf Imaging-1.1.4.tar.gz
cd Imaging-1.1.4
cd libImaging
./configure
make
cd ..
python2.3 setup.py build
python2.3 setup.py install
cd ..
rm -rf Imaging*
```

Installing mod_python:

```
wget http://apache.zone-h.org/httpd/modpython/mod\_python-3.1.3.tgz
tar -zxf mod_python-3.1.3.tgz
cd mod_python-3.1.3
./configure --with-python=/usr/bin/python2.3
make
make install
cd ..
rm -rf mod_python*
```

Installing Conflux Professional, step 1 – filesystem setup:

```
mv confluxpro_crm_1.4.0.tar.gz ~/tmp/
cd ~/tmp/
tar -zxf confluxpro_crm_1.4.0.tar.gz
tar -zxf confluxpro_files.tar.gz
mv lib/conflux/ /var/lib/
mv www/html/conflux/ /var/www/html/
chown root:root -R /var/www/html/conflux/ /var/lib/conflux/
chmod 755 -R /var/www/html/conflux/ /var/lib/conflux/
chown apache:apache -R /var/lib/conflux/DOCRROOT/ /var/lib/conflux/BACKUP/ \
/var/lib/conflux/DOCBACKUP/ /var/lib/conflux/tmp/
```

If you recently installed the PostgreSQL packages and have not yet started the database, do so to create the default configuration files:

```
/etc/init.d/rhdb start
```

Installing Conflux Professional, step 2 – database setup:

```
# set access to confluxpro database to trust for installation purposes
nano /var/lib/pgsql/data/pg_hba.conf
```

Add the following line right before the first non-commented line:

```
local confluxpro all trust
```

Restart the database engine:

```
/etc/init.d/rhdb restart
```

Read in the database dump:

```
su postgres
psql template1
template1=# create user conflux password 'mypassw' ncreatedb ncreateuser;
template1=# create database confluxpro with owner=conflux encoding='unicode';
ctrl-d (exit psql)
ctrl-d (exit su)

psql confluxpro postgres
confluxpro=# \i /var/lib/conflux/conflux_pro.init73.sql
ctrl-d (exit psql)
```

Reconfigure the database access:

```
# set access to confluxpro database to trust for installation purposes
nano /var/lib/pgsql/data/pg_hba.conf
```

Change the previously added line to:

```
local confluxpro all password
```

Restart the database engine:

```
/etc/init.d/rhdb restart
```

Make the required changes to _ConfUser.py:

```
# set DB_PASS to the password used in 'create user' and BASE_URL to '/conflux/'
nano /var/lib/conflux/lib/_ConfUser.py
```

Run the database updater script:

```
cd /var/lib/conflux/lib/
python2.3 conflux_updater.py
```

Start the Conflux background daemon:

```
chkconfig postgresql on
chkconfig httpd on
chmod +x /var/lib/conflux/daemon/confluxd
cp /var/lib/conflux/daemon/confluxd /etc/init.d/
chkconfig --add confluxd
/etc/init.d/confluxd start
```

Installing Conflux Professional, step 3 – webserver setup:

```
nano /etc/httpd/conf.d/conflux.conf
```

And insert the following contents:

```
LoadModule python_module /usr/lib/httpd/modules/mod_python.so
<Directory /var/www/html/conflux/>
  DirectoryIndex index.py
  PythonPath "sys.path+['/var/lib/conflux/lib/']"
  AddHandler python-program .py
  PythonHandler _Publisher
  PythonDebug Off
  DirectoryIndex index.py index.html
</Directory>
```

Restart Apache2:

```
/etc/init.d/httpd restart
```

You can now log into Conflux at <http://yourserver.com/conflux/>.

Administrator username is 'superuser'.

Administrator default password is 'conflux'.

NB! To avoid any security risks change the password after you log in.

3.3 Fedora Core 1

Required packages:

```
httpd
httpd-devel
postgresql
postgresql-libs
postgresql-server
postgresql-contrib
postgresql-pl
xpdf
wv
gcc (for compiling psycopg)
make (for compiling psycopg)
postgresql-devel (for compiling psycopg)
libjpeg (for PIL)
```

Installing Python 2.3:

```
wget http://www.python.org/ftp/python/2.3.4/rpms/fedora-1/python2.3-2.3.4-2pydotorg.i386.rpm
wget http://www.python.org/ftp/python/2.3.4/rpms/fedora-1/python2.3-devel-2.3.4-2pydotorg.i386.rpm
rpm -Uhv python2.3-2.3.4-2pydotorg.i386.rpm python2.3-devel-2.3.4-2pydotorg.i386.rpm
rm -f python2.3-2.3.4-2pydotorg.i386.rpm python2.3-devel-2.3.4-2pydotorg.i386.rpm
```

Installing mxDateTime:

```
wget http://www.egenix.com/files/python/egenix-mx-base-2.0.5.tar.gz
tar -zxf egenix-mx-base-2.0.5.tar.gz
cd egenix-mx-base-2.0.5
python2.3 setup.py build
python2.3 setup.py install
cd ..
rm -rf egenix-*
```

Installing psycopg:

```
wget http://initd.org/pub/software/psycopg/psycopg-1.1.21.tar.gz
tar -zxf psycopg-1.1.21.tar.gz
cd psycopg-1.1.21
./configure --with-python=/usr/bin/python2.3 \
  --with-postgres-includes=/usr/include/pgsql/server/ \
  --with-mxdatetime-includes=/usr/lib/python2.3/site-packages/mx/DateTime/mxDateTime/
make
make install
cd ..
rm -rf psycopg*
```

Installing PIL (Python Imaging Library):

```
wget http://effbot.org/downloads/Imaging-1.1.4.tar.gz
tar -zxf Imaging-1.1.4.tar.gz
cd Imaging-1.1.4
cd libImaging
./configure
make
cd ..
python2.3 setup.py build
python2.3 setup.py install
cd ..
rm -rf Imaging*
```

Installing mod_python:

```
wget http://apache.zone-h.org/httpd/modpython/mod\_python-3.1.3.tgz
tar -zxf mod_python-3.1.3.tgz
cd mod_python-3.1.3
./configure --with-python=/usr/bin/python2.3
make
make install
cd ..
rm -rf mod_python*
```

Installing Conflux Professional, step 1 – filesystem setup:

```
mv confluxpro_crm_1.4.0.tar.gz ~/tmp/
cd ~/tmp/
tar -zxf confluxpro_crm_1.4.0.tar.gz
tar -zxf confluxpro_files.tar.gz
mv lib/conflux/ /var/lib/
mv www/html/conflux/ /var/www/html/
chown root:root -R /var/www/html/conflux/ /var/lib/conflux/
chmod 755 -R /var/www/html/conflux/ /var/lib/conflux/
chown apache:apache -R /var/lib/conflux/DOCRROOT/ /var/lib/conflux/BACKUP/ \
/var/lib/conflux/DOCBACKUP/ /var/lib/conflux/tmp/
```

If you recently installed the PostgreSQL packages and have not yet started the database, do so to create the default configuration files:

```
/etc/init.d/postgresql start
```

Installing Conflux Professional, step 2 – database setup:

```
# set access to confluxpro database to trust for installation purposes
nano /var/lib/pgsql/data/pg_hba.conf
```

Add the following line right before the first non-commented line:

```
local confluxpro all trust
```

Restart the database engine:

```
/etc/init.d/postgresql restart
```

Read in the database dump:

```
su postgres
psql template1
template1=# create user conflux password 'mypassw' norecreatedb norecreateuser;
template1=# create database confluxpro with owner=conflux encoding='unicode';
ctrl-d (exit psql)
ctrl-d (exit su)

psql confluxpro postgres
confluxpro=# \i /var/lib/conflux/conflux_pro.init73.sql
ctrl-d (exit psql)
```

Reconfigure the database access:

```
# set access to confluxpro database to trust for installation purposes
nano /var/lib/pgsql/data/pg_hba.conf
```

Change the previously added line to:

```
local confluxpro all password
```

Restart the database engine:

```
/etc/init.d/postgresql restart
```

Make the required changes to _ConfUser.py:

```
# set DB_PASS to the password used in 'create user' and BASE_URL to '/conflux/'
nano /var/lib/conflux/lib/_ConfUser.py
```

Run the database updater script:

```
cd /var/lib/conflux/lib/
python2.3 conflux_updater.py
```

Start the Conflux background daemon:

```
chkconfig postgresql on
chkconfig httpd on
chmod +x /var/lib/conflux/daemon/confluxd
cp /var/lib/conflux/daemon/confluxd /etc/init.d/
chkconfig --add confluxd
/etc/init.d/confluxd start
```

Installing Conflux Professional, step 3 – webserver setup:

```
nano /etc/httpd/conf.d/conflux.conf
```

And insert the following contents:

```
LoadModule python_module /usr/lib/httpd/modules/mod_python.so
<Directory /var/www/html/conflux/>
  DirectoryIndex index.py
  PythonPath "sys.path+['/var/lib/conflux/lib/']"
  AddHandler python-program .py
  PythonHandler _Publisher
  PythonDebug Off
  DirectoryIndex index.py index.html
</Directory>
```

Restart Apache2:

```
/etc/init.d/apache2 restart
```

You can now log into Conflux at <http://yourserver.com/conflux/>.

Administrator username is 'superuser'.

Administrator default password is 'conflux'.

NB! To avoid any security risks change the password after you log in.

3.4 Fedora Core 2

Required packages:

```
httpd
mod_python
postgresql
postgresql-libs
postgresql-server
postgresql-contrib
postgresql-pl
mx
python
xpdf
wv
gcc (for compiling psycopg)
make (for compiling psycopg)
python-devel (for compiling psycopg)
postgresql-devel (for compiling psycopg)
```

Installing psycopg:

```
mkdir ~/tmp
cd ~/tmp/
wget http://initd.org/pub/software/psycopg/psycopg-1.1.21.tar.gz
tar -zxf psycopg-1.1.21.tar.gz
cd psycopg-1.1.21
./configure --with-postgres-includes=/usr/include/pgsql/server/ \
  --with-mxdatetime-includes=/usr/lib/python2.3/site-packages/mx/DateTime/mxDateTime/
make
make install
cd ..
rm -rf psycopg*
```

Installing PIL (Python Imaging Library):

```
wget http://download.atrpms.net/production/packages/fedora-2-i386/atrpms/PIL-1.1.4-4.rhfc2.at.i386.rpm
rpm -Uhv PIL-1.1.4-4.rhfc2.at.i386.rpm
rm -f PIL-1.1.4-4.rhfc2.at.i386.rpm
```

Installing Conflux Professional, step 1 – filesystem setup:

```
mv confluxpro_crm_1.4.0.tar.gz ~/tmp/
cd ~/tmp/
tar -zxf confluxpro_crm_1.4.0.tar.gz
tar -zxf confluxpro_files.tar.gz
mv lib/conflux/ /var/lib/
mv www/html/conflux/ /var/www/html/
chown root:root -R /srv/www/htdocs/conflux/ /var/lib/conflux/
chown root:root -R /var/www/html/conflux/ /var/lib/conflux/
chmod 755 -R /var/www/html/conflux/ /var/lib/conflux/
chown apache:apache -R /var/lib/conflux/DOCR00T/ \
  /var/lib/conflux/BACKUP/ /var/lib/conflux/DOCBACKUP/ /var/lib/conflux/tmp/
```

If you recently installed the PostgreSQL packages and have not yet started the database, do so to create the default configuration files:

```
/etc/init.d/postgresql start
```

Installing Conflux Professional, step 2 – database setup:

```
# set access to confluxpro database to trust for installation purposes
nano /var/lib/pgsql/data/pg_hba.conf
```

Add the following line right before the first non-commented line:

```
local confluxpro all trust
```

Restart the database engine:

```
/etc/init.d/postgresql restart
```

Read in the database dump:

```
su postgres
psql template1
template1=# create user conflux password 'mypassw' norecreatedb norecreateuser;
template1=# create database confluxpro with owner=conflux encoding='unicode';
ctrl-d (exit psql)
ctrl-d (exit su)

psql confluxpro postgres
confluxpro=# \i /var/lib/conflux/conflux_pro.init.sql
ctrl-d (exit psql)
```

Reconfigure the database access:

```
# set access to confluxpro database to trust for installation purposes
nano /var/lib/pgsql/data/pg_hba.conf
```

Change the previously added line to:

```
local confluxpro all password
```

Restart the database engine:

```
/etc/init.d/postgresql restart
```

Make the required changes to `_ConfUser.py`:

```
# set DB_PASS to the password used in 'create user' and BASE_URL to '/conflux/'
nano /var/lib/conflux/lib/_ConfUser.py
```

Run the database updater script:

```
cd /var/lib/conflux/lib/
python2.3 conflux_updater.py
```

Start the Conflux background daemon:

```
chkconfig postgresql on
chkconfig httpd on
chmod +x /var/lib/conflux/daemon/confluxd
cp /var/lib/conflux/daemon/confluxd /etc/init.d/
chkconfig --add confluxd
/etc/init.d/confluxd start
```

Installing Conflux Professional, step 3 – webserver setup:

```
nano /etc/httpd/conf.d/conflux.conf
```

And insert the following contents:

```
<Directory /var/www/html/conflux/>
  DirectoryIndex index.py
  PythonPath "sys.path+['/var/lib/conflux/lib/']"
  AddHandler python-program .py
  PythonHandler _Publisher
  PythonDebug Off
  DirectoryIndex index.py index.html
</Directory>
```

Restart Apache2:

```
/etc/init.d/apache2 restart
```

You can now log into Conflux at <http://yourserver.com/conflux/>.

Administrator username is 'superuser'.

Administrator default password is 'conflux'.

NB! To avoid any security risks change the password after you log in.

3.5 Red Hat Linux 9

Required packages:

```
httpd
httpd-devel (for compiling mod_python)
postgresql
postgresql-libs
postgresql-server
postgresql-contrib
postgresql-pl
postgresql-devel (for compiling psycopg)
xpdf
wv
gcc (for compiling psycopg)
make (for compiling psycopg)
libjpeg (for PIL)
```

Installing Python 2.3:

```
wget http://www.python.org/ftp/python/2.3.2/rpms/redhat-9/python2.3-2.3.2-1pydotorg.i386.rpm
wget http://www.python.org/ftp/python/2.3.2/rpms/redhat-9/python2.3-devel-2.3.2-1pydotorg.i386.rpm
rpm -Uvh python2.3-2.3.2-1pydotorg.i386.rpm python2.3-devel-2.3.2-1pydotorg.i386.rpm
rm -f python2.3-2.3.2-1pydotorg.i386.rpm python2.3-devel-2.3.2-1pydotorg.i386.rpm
```

Installing mxDateTime:

```
wget http://www.egenix.com/files/python/egenix-mx-base-2.0.5.tar.gz
tar -zxf egenix-mx-base-2.0.5.tar.gz
cd egenix-mx-base-2.0.5
python2.3 setup.py build
python2.3 setup.py install
cd ..
rm -rf egenix-*
```

Installing psycopg:

```
wget http://initd.org/pub/software/psycopg/psycopg-1.1.21.tar.gz
tar -zxf psycopg-1.1.21.tar.gz
cd psycopg-1.1.21
./configure --with-python=/usr/bin/python2.3 \
  --with-postgres-includes=/usr/include/postgresql/server/ \
  --with-mxdatetime-includes=/usr/lib/python2.3/site-packages/mx/DateTime/mxDateTime/
make
make install
cd ..
rm -rf psycopg*
```

Installing PIL (Python Imaging Library):

```
wget http://effbot.org/downloads/Imaging-1.1.4.tar.gz
tar -zxf Imaging-1.1.4.tar.gz
cd Imaging-1.1.4
cd libImaging
./configure
make
cd ..
python2.3 setup.py build
python2.3 setup.py install
cd ..
rm -rf Imaging*
```

Installing mod_python:

```
wget http://apache.zone-h.org/httpd/modpython/mod\_python-3.1.3.tgz
tar -zxf mod_python-3.1.3.tgz
cd mod_python-3.1.3
./configure --with-python=/usr/bin/python2.3
make
make install
cd ..
rm -rf mod_python*
```

Installing Conflux Professional, step 1 – filesystem setup:

```
mv confluxpro_crm_1.4.0.tar.gz ~/tmp/
cd ~/tmp/
tar -zxf confluxpro_crm_1.4.0.tar.gz
tar -zxf confluxpro_files.tar.gz
mv lib/conflux/ /var/lib/
mv www/html/conflux/ /var/www/html/
chown root:root -R /var/www/html/conflux/ /var/lib/conflux/
chmod 755 -R /var/www/html/conflux/ /var/lib/conflux/
chown apache:apache -R /var/lib/conflux/DOCR00T/ /var/lib/conflux/BACKUP/ \
/var/lib/conflux/DOCBACKUP/ /var/lib/conflux/tmp/
```

If you recently installed the PostgreSQL packages and have not yet started the database, do so to create the default configuration files:

```
/etc/init.d/postgresql start
```

Installing Conflux Professional, step 2 – database setup:

```
# set access to confluxpro database to trust for installation purposes
vi /var/lib/pgsql/data/pg_hba.conf
```

Add the following line right before the first non-commented line:

```
local confluxpro all trust
```

Restart the database engine:

```
/etc/init.d/postgresql restart
```

Read in the database dump:

```
su postgres
psql template1
template1=# create user conflux password 'mypassw' norecreatedb norecreateuser;
template1=# create database confluxpro with owner=conflux encoding='unicode';
ctrl-d (exit psql)
ctrl-d (exit su)

psql confluxpro postgres
confluxpro=# \i /var/lib/conflux/conflux_pro.init73.sql
ctrl-d (exit psql)
```

Reconfigure the database access:

```
# set access to confluxpro database to trust for installation purposes
vi /var/lib/pgsql/data/pg_hba.conf
```

Change the previously added line to:

```
local confluxpro all password
```

Restart the database engine:

```
/etc/init.d/postgresql restart
```

Make the required changes to _ConfUser.py:

```
# set DB_PASS to the password used in 'create user' and BASE_URL to '/conflux/'
vi /var/lib/conflux/lib/_ConfUser.py
```

Run the database updater script:

```
cd /var/lib/conflux/lib/
python2.3 conflux_updater.py
```

Start the Conflux background daemon:

```
chkconfig postgresql on
chkconfig httpd on
chmod +x /var/lib/conflux/daemon/confluxd
cp /var/lib/conflux/daemon/confluxd /etc/init.d/
chkconfig --add confluxd
/etc/init.d/confluxd start
```

Installing Conflux Professional, step 3 – webserver setup:

```
vi /etc/httpd/conf.d/conflux.conf
```

And insert the following contents:

```
LoadModule python_module /usr/lib/httpd/modules/mod_python.so
<Directory /var/www/html/conflux/>
  DirectoryIndex index.py
  PythonPath "sys.path+['/var/lib/conflux/lib/']"
  AddHandler python-program .py
  PythonHandler _Publisher
  PythonDebug Off
  DirectoryIndex index.py index.html
</Directory>
```

Restart Apache2:

```
/etc/init.d/apache2 restart
```

You can now log into Conflux at <http://yourserver.com/conflux/>.

Administrator username is 'superuser'.

Administrator default password is 'conflux'.

NB! To avoid any security risks change the password after you log in.

4. Upgrading

To update Conflux Professional 1.3 or later, download the appropriate upgrade packages from the Conflux website and follow the instructions included. To get support on issues related to upgrading, please contact Inversion Software OÜ at support@inversion.ee with your support contract number and the version info for the existing and new Conflux versions.