Conflux Lite

Technical Documentation

Installation Guide
for v1.3

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1. Software Requirements

1.1 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 there are no official guarantees.

1.2 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 more. 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
  Source: distribution package or http://www.pythonware.com/products/pil/

- mod_python, the Apache2/Python integration module
  Version: 3.0.x or 3.1.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 or 7.4.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
  Source: distribution package or http://www.egenix.com/files/python/mxDateTime.html

- Psycopg Python database adapter for PostgreSQL
  Version: 1.1.x
  Source: distribution package or http://www.initd.org/software/initd/psycopg/

2. 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.

2.1 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)
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-1.1.18.tar.gz
tar -zxf psycopg-1.1.18.tar.gz
cd psycopg-1.1.18
./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 confluxlite_1.3.0.tar.gz ~/tmp/
cd ~/tmp/
tar -zxf confluxlite_1.3.0.tar.gz
mv lib/conflux/ /var/lib/
mv 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' nocreatedb nocreateuser;
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/SCHEMA_pg73.sql
ctrl-d (exit psql)
```

- For SUSE 9.1:

```
su postgres

psql template1
template1=# create user conflux password 'mypassw' nocreatedb nocreateuser;
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/SCHEMA_pg74.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
```

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.

2.2 Red Hat Enterprise Linux 3

Required packages:

```
httpd
httpd-devel
rh-postgresql
rh-postgresql-libs
rh-postgresql-server
rh-postgresql-contrib
rh-postgresql-pl
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-2.0.5.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-1.1.18.tar.gz
tar -zxf psycopg-1.1.18.tar.gz
cd psycopg-1.1.18
./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 confluxlite_1.3.0.tar.gz ~/tmp/
cd ~/tmp/
tar -zxf confluxlite_1.3.0.tar.gz
mv lib/conflux/ /var/lib/
mv 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/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/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' nocreatedb nocreateuser;
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/SCHEMA_pg73.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
```

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.

2.3 Fedora Core 1

Required packages:

```
httpd
httpd-devel
postgresql
postgresql-libs
postgresql-server
postgresql-contrib
postgresql-pl
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-1.1.18.tar.gz
tar -zxf psycopg-1.1.18.tar.gz
cd psycopg-1.1.18
./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 confluxlite_1.3.0.tar.gz ~/tmp/
cd ~/tmp/
tar -zxf confluxlite_1.3.0.tar.gz
mv lib/conflux/ /var/lib/
mv 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/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
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' nocreatedb nocreateuser;
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/SCHEMA_pg73.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
```

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.

2.4 Fedora Core 2

Required packages:

```
httpd
mod_python
postgresql
postgresql-libs
postgresql-server
postgresql-contrib
postgresql-pl
mx
python
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-1.1.18.tar.gz
tar -zxf psycopg-1.1.18.tar.gz
cd psycopg-1.1.18
./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 confluxlite_1.3.0.tar.gz ~/tmp/
cd ~/tmp/
tar -zxf confluxlite_1.3.0.tar.gz
mv lib/conflux/ /var/lib/
mv 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/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
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' nocreatedb nocreateuser;
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/SCHEMA_pg74.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
```

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.

2.5 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)
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 -Uhv 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-1.1.18.tar.gz
tar -zxf psycopg-1.1.18.tar.gz
cd psycopg-1.1.18
./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 confluxlite_1.3.0.tar.gz ~/tmp/
cd ~/tmp/
tar -zxf confluxlite_1.3.0.tar.gz
mv lib/conflux/ /var/lib/
mv 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/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
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' nocreatedb nocreateuser;
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/SCHEMA_pg73.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
```

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.

3. Upgrading

Please note that no official support is offered for Conflux Lite by Inversion Software OÜ. If you choose to follow the procedures below, you will do so on your own account.

3.1 Upgrading from versions earlier than v1.1.2 to v1.3.0

Direct upgrading from versions earlier than v1.1.2 is currently not possible. Please update your installation to v1.1.2 and then see section 3.2 for further information. Information on how to upgrade your Conflux Lite installation to v1.1.2 is available in the v1.1.2 installation package.

3.2 Upgrading from v1.1.2 to v1.3.0

To upgrade your database system to v1.3.0, please follow these steps:

- Stop the web server (Apache2)
- Make a backup of your current database:
  pg_dump -f conflux_backup.sql -U $DBUSER $DBNAME
  where $DBUSER is the database user and $DBNAME is the database that stores Conflux data.
- Open the file "update_treepos.py" from the installation package with a text editor. Check that the DBNAME (Conflux database), USER (standard Conflux database user, the one in _ConfUser.py) and SUSER (PostgreSQL superuser) values are correct. Save the file if needed.
- Run the file:
  python update_treepos.py
  If the program exits without any error messages, everything was okay and you can continue to the section covering filesystem upgrade. If an error occurred, restore the database from the backup and contact Inversion Software with the error message for more information.

To upgrade your filesystem modules to v1.3.0, please follow these steps:

- Make backups of your library folders (lib/, the location of _ConfUser.py and daemon/, the location confluxd.py) and the web interface folders (conflux/ and everything below, usually under /var/www/html/ or /srv/www/htdocs).
- Replace /var/lib/conflux/lib/ with the lib/conflux/lib/ folder from the installation package.
- Replace /var/lib/conflux/daemon/ with the lib/conflux/daemon/ folder from the installation package.
- Replace /var/www/html/conflux/ or equivalent with conflux/ folder from the installation package.
- Compare the new _ConfUser.py file in /var/lib/conflux/lib/ with the one in your backup and make appropriate modifications to the variable values in the new file.
- Start Apache2 again.