



Confluent Professional
Technical Documentation
Installation Guide
FreeBSD 6.2 x86

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Recommended Hardware Setup

Conflux Professional typically requires 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. In the table below are listed recommended¹ hardware configurations for specific numbers of concurrent users.

Concurrent users ²	Processor	RAM	Disk setup	LAN connectivity
1 to 10	Opteron 148	512 MB	SATA, 2 drives RAID-1	100 Mb/s
11 to 25	Opteron 148	512 MB	SATA, 2 drives RAID-1	100 Mb/s
26 to 50	Opteron 170	1 GB	SATA, 4 drives RAID-10	100 Mb/s
51 to 100	Opteron 170	1 GB	SCSI/FC, 4 drives RAID-10/RAID-5 ³	100 Mb/s
101 to 200	Dual Opteron 270	2 GB	SCSI/FC, 4+ drives RAID-10/RAID-5	1 Gb/s
Above 200	Dual Opteron 270	4 GB	SCSI/FC, 4+ drives RAID-10/RAID-5	1 Gb/s

Tested and supported processor platforms are:

- Intel Pentium III, Pentium 4, Xeon
- AMD Opteron, Athlon64, Athlon64 X2, Athlon

¹ The configurations listed are the recommendations for optimal use. The minimum hardware requirements are significantly lower – Conflux can also operate on a PIII based server with 256 MB RAM.

² Concurrent users does not equal the number of users enabled on the system. In fact the actual number of users on the system can be significantly higher than the number of concurrent users.

³ When using RAID-5, use quality hardware RAID controllers to avoid performance loss

Software Requirements

Operating System

Conflux Professional is designed to run on Linux (or *NIX in general) and Windows platforms on an x86-compatible architecture. 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	x86 architecture	x86-64 architecture
SUSE Linux ⁴	Yes	Yes
Red Hat Linux ⁵	Yes	No
Fedora Core ⁶	Yes	Yes
Red Hat Enterprise Linux ⁷	Yes	Yes
Debian	Yes	Untested
Ubuntu ⁸	Yes	Untested
Gentoo	Yes	Untested
Mandriva ⁹	Yes	Untested
FreeBSD	Yes	Untested
Solaris ¹⁰	Yes	Untested

Software Components

The following software components, which are not included in the Conflux Professional software package, are required for running Conflux Professional:

- Apache web server
Version: 2.0.x or 2.2.x
Alternate source: <http://httpd.apache.org/>
Notes: under Linux, FreeBSD and Solaris, Conflux requires the Apache2 server to run in "prefork" mode. Any other run modes (including "worker") are not supported.
- Python programming language
Version: 2.3.x or 2.4.x
Alternate source: <http://www.python.org/>
- Python Imaging Library
Version: 1.1.6 or above
Alternate source: <http://www.pythonware.com/products/pil/>
- mod_python, the Apache2-Python integration module
Version: 3.0 or later (3.2 recommended)
Alternate source: <http://www.modpython.org/>
- mxDateTime extensions for Python
Version: 2.0.6 or later
Alternate source: <http://www.egenix.com/files/python/mxDateTime.html>
- PostgreSQL database engine
Version: 7.3.x or above (8.0 or above recommended)
Alternate source: <http://www.postgresql.org/>
Notes: support for v7.3 will be removed in Conflux Professional v1.6.

⁴ Versions 9.0 to 10.0

⁵ Version 9

⁶ Versions 1 to 4 with **SELinux turned off**

⁷ Versions 3 to 4 with **SELinux turned off**

⁸ Version 5.10

⁹ Version 2006, CS4

¹⁰ Version 10

- psychopg Python database adapter for PostgreSQL
Version: 1.1.21 or later (do not mistakenly confuse with psychopg2)
Alternate source: <http://www.initd.org/software/initd/psychopg/>
- wwWare toolset (for indexing MS Word documents)
Version: 1.0.3 or later
Alternate source: <http://sourceforge.net/projects/wwware/>
- xpdf (for indexing Adobe PDF documents)
Version: 2 or later
Alternate source: <http://www.foolabs.com/xpdf/>

Installation

Basic requirements and notes

This installation guide assumes that you are installing Conflux Professional on a clean, up-to-date installation of FreeBSD 6.2. If your server is not a clean installation, certain packages that this guide requires you to install may already be installed. Such a situation should not affect the installation or operation of the Conflux software. However, if you do run into difficulties with the installation procedure, please contact Inversion Software's support team for assistance.

The installation procedure will install Conflux as a non-SSL-enabled service. If you wish to configure Conflux to use the encrypted SSL communications, please contact your system administrator for the guidelines or help. Due to many possible variations of SSL-enabled server configurations we feel that offering general instructions in this document for this would not be efficient.

Installing required base packages

The following RPM packages are required for a successful installation of Conflux professional:

- postgresql74-server
- postgresql74-client
- py24-psycopg
- apache20
- py-imaging
- py24-email
- py24-xml

For compiling additional required components, please also install:

- wget (for easy downloading of components)

Please note that installing these packages will install multiple dependency packages as well. This is the expected behavior and there is no need to be alarmed.

Command line for installing packages:

```
pkg_add -r postgresql74-server
pkg_add -r postgresql74-client
pkg_add -r py24-psycopg
pkg_add -r apache20
pkg_add -r py-imaging
pkg_add -r py24-email
pkg_add -r py24-xml
pkg_add -r wget
```

Installing Conflux Professional

Step 1: Download, compile and install the additional required components

```
cd /usr/ports/www/mod_python3/
make
make install
```

Step 2: Download the latest Conflux Professional release from our website. For this document, we will use v1.5.0.15 as an example.

```
cd
wget http://files.conflux.ee/pro/1.5.0.15/confluxpro\_crm\_1.5.0.15\_x86\_py24-bsd.tar.gz
```

Step 3: Unpack the software

```
wget http://files.conflux.ee/pro/1.5.0.15/confluxpro\_crm\_1.5.0.15\_x86\_py24-bsd.tar.gz
tar -zxf confluxpro_crm_1.5.0.15_x86_py24-bsd.tar.gz
tar -zxf confluxpro_files.tar.gz
```

Step 4: Install the files

```
mv lib/ /var/
mv www/html/conflux/ /usr/local/www/data/
```

Step 5: Clean up the installation package temporary files

```
rm -rf lib/ www/ conflupro_files.tar.gz conflupro_crm_1.5.0.15_x86_py24-bsd.tar.gz
```

Step 6: Set up file permissions

```
chown -R root:wheel /usr/local/www/data/conflux/ /var/lib/conflux/  
chmod -R 755 /usr/local/www/data/conflux/ /var/lib/conflux/  
chown -R www:www /var/lib/conflux/DOCR00T/ /var/lib/conflux/BACKUP/ \  
/var/lib/conflux/DOCBACKUP/ /var/lib/conflux/tmp/
```

Step 7: Load the database schema

```
cd /var/lib/conflux/  
/usr/local/etc/rc.d/010.pgsql.sh initdb  
/usr/local/etc/rc.d/010.pgsql.sh start  
  
psql template1 pgsq1  
=> create user conflux ncreateuser ncreatedb;  
=> create database conflupro with owner=conflux encoding='unicode';  
=> \q  
  
psql conflupro pgsq1  
=> \i conflux_pro.init_bsd.sql  
=> \q
```

Step 8: Update the database schema to the latest version

```
cd lib/  
python2.4 conflux_updater.py
```

Step 9: Configure the Apache web server. Create a new file called /etc/apache2/conf.d/conflux

```
vi /usr/local/etc/apache2/httpd.conf
```

and insert the following contents:

```
LoadModule python_module libexec/apache2/mod_python.so  
<Directory /usr/local/www/data/>  
    DirectoryIndex index.py  
    PythonPath "sys.path+['/var/lib/conflux/lib/']"  
    AddHandler python-program .py  
    PythonHandler _Publisher  
    PythonDebug off  
</Directory>
```

Save the file and exit the editor (ctrl-x).

Step 13: Restart the Apache2 web server

```
/usr/local/etc/rc.d/apache2.sh stop  
/usr/local/etc/rc.d/apache2.sh start
```

NB! If your qualified host name is not valid (output of "hostname -f"), please set the ServerName variable in Apache configuration files or the hostname to the correct value and restart the Apache2 web server. If this is not done, Conflux pages that redirect users to new pages after performing some action (for example adding a new folder) will work incorrectly and redirect the users to a non-valid URL.

Testing the new installation

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 please change the password immediately after you log in.

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 with your support contract number and the version info for the existing and new Conflux versions. If you do not have a support contract, do not be afraid to contact anyway, however in such cases we cannot guarantee optimum response times.