



Technical Documentation

Installation Guide

Conflux 1.6.0 beta 1

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Recommended Hardware Setup

Available Conflux Professional installation packages require 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	Memory (RAM)	Disk Setup	Network Connectivity
1 – 25	Dual Core Modern CPU	2 GB	SATA No RAID/RAID-1	100 Mbps
26 – 100	Quad Core Modern 64-bit CPU	4 GB	SATA/SAS RAID-1/RAID-10	100 Mbps
101 – 200	Quad Core Modern 64-bit CPU(s)	8 GB	SAS RAID-10	1000 Mbps
200+	Quad Core Modern 64-bit CPUs	8 GB	SAS RAID-10	1000 Mbps

Software Requirements

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.

Platform	x86_64	i386
Operating System	64-bit edition	32-bit edition
RHEL 6.0*		!!
RHEL 6.1*		!!
CentOS 6.0*		!!
CentOS 6.1*		!!
Scientific Linux 6.0*		!!
Scientific Linux 6.1*		!!
Debian 6.0		!!
Ubuntu 10.04 LTS		!!
Windows Server 2008	!!	!!

- Supported platform
- ! Supported, but requires upgrades from standard OS component versions
- !! Planned support in future non-beta versions
- Unsupported platform
- * Marked distributions are currently only supported with SELinux turned off

Software Components

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

- Apache2 webserver
Version: 2.2.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: 2.6.x or 2.7.x
Source: distribution package or <http://www.python.org/>
- Python Imaging Library
Version: 1.1.7 or later recommended
Source: distribution package or <http://www.pythonware.com/products/pil/>
- mod_wsgi, the Apache2/Python integration module
Version: 3.2 or later
Source: distribution package or <http://www.modwsgi.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: 8.4 or later
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.
- Psycopg Python database adapter for PostgreSQL
Version: 2.0.x 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/>

Installation Guides

RHEL/CentOS/Scientific Linux 6

In case of a first-time installation, disable SELinux:

```
## Modify the following marked line in
## the end of /var/lib/pgsql/data/pg_hba.conf

# This file controls the state of SELinux on the system.
# SELINUX= can take one of these three values:
#   enforcing - SELinux security policy is enforced.
#   permissive - SELinux prints warnings instead of enforcing.
#   disabled - No SELinux policy is loaded.
SELINUX=disabled
# SELINUXTYPE= can take one of these two values:
#   targeted - Targeted processes are protected,
#   mls - Multi Level Security protection.
SELINUXTYPE=targeted

## Reboot the server
```

In case of a first-time installation, if you do not have a dedicated database server, install PostgreSQL on the local server:

```
yum install postgresql-server postgresql
chkconfig postgresql on
service postgresql initdb
service postgresql start
su - postgres -c '/usr/bin/createuser -D -l -R -S conflux'
su - postgres -c '/usr/bin/createdb -E unicode -O conflux conflux'

## Configure database access: add the following marked line to
## the end of /var/lib/pgsql/data/pg_hba.conf

# "local" is for Unix domain socket connections only
local  all          all                                ident
# IPv4 local connections:
host   conflux     conflux     127.0.0.1/32      trust
host   all          all          127.0.0.1/32     ident
# IPv6 local connections:
host   all          all          ::1/128          ident
```

For installation or upgrade download and install the Conflux RPM package. Required dependencies will be installed automatically.

```
cd ~/
wget http://files.conflux.ee/pro/1.6.0.0/conflux-1.6.0-36inv.x86_64.rpm
yum install conflux-1.6.0-36inv.x86_64.rpm
```

For configuration, examine and update the following configuration files:

```
/etc/httpd/conf.d/99_conflux.conf:
    Modify the ServerName setting
/etc/conflux.conf:
    Modify the settings in the "Database connection settings" section and
    The "Email server settings" section
```

In case of a first-time installation, create a database for Conflux and load in the base schema:

```
su - postgres -c 'psql -U postgres -f /opt/conflux/data/conflux_pro.init80.sql
conflux'
```

Upgrade the database schema to the required version:

```
python /opt/conflux/lib/conflux/core/conflux_updater.py
```

Restart the Apache2 web server:

```
service 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.

Debian 6

In case of a first-time installation, if you do not have a dedicated database server, install PostgreSQL on the local server:

```
apt-get install postgresql postgresql-client
su - postgres -c '/usr/bin/createuser -D -l -R -S -P conflux'
su - postgres -c '/usr/bin/createdb -E unicode -O conflux conflux'
```

For installation or upgrade download and install the Conflux RPM package. Required dependencies will be installed automatically.

```
apt-get update
cd ~/
wget http://files.conflux.ee/pro/1.6.0.0/conflux_1.6.0_amd64.deb
dpkg -i conflux_1.6.0_amd64.deb
apt-get upgrade -f
```

For configuration, examine and update the following configuration files:

```
/etc/apache2/conf.d/99_conflux.conf:
    Modify the ServerName setting
/etc/conflux.conf:
    Modify the settings in the "Database connection settings" section and
    The "Email server settings" section
```

In case of a first-time installation, create a database for Conflux and load in the base schema:

```
su - postgres -c 'psql -U postgres -f /opt/conflux/data/conflux_pro.init80.sql
conflux'
```

Upgrade the database schema to the required version:

```
python /opt/conflux/lib/conflux/core/conflux_updater.pyc
```

Restart the Apache2 web server:

```
service 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.

Ubuntu 10.04 LTS

In case of a first-time installation, if you do not have a dedicated database server, install PostgreSQL on the local server:

```
apt-get install postgresql postgresql-client
su - postgres -c '/usr/bin/createuser -D -l -R -S -P conflux'
su - postgres -c '/usr/bin/createdb -E unicode -O conflux conflux'
```

For installation or upgrade download and install the Conflux RPM package. Required dependencies will be installed automatically.

```
apt-get update
cd ~/
wget http://files.conflux.ee/pro/1.6.0.0/conflux_1.6.0_amd64.deb
dpkg -i conflux_1.6.0_amd64.deb
apt-get -f install
```

For configuration, examine and update the following configuration files:

```
/etc/apache2/conf.d/99_conflux.conf:
    Modify the ServerName setting
/etc/conflux.conf:
    Modify the settings in the "Database connection settings" section and
    The "Email server settings" section
```

In case of a first-time installation, create a database for Conflux and load in the base schema:

```
su - postgres -c 'psql -U postgres -f /opt/conflux/data/conflux_pro.init80.sql
conflux'
```

Upgrade the database schema to the required version:

```
python /opt/conflux/lib/conflux/core/conflux_updater.pyc
```

Restart the Apache2 web server:

```
service 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.

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.