

Omero Server Beta 4.2.0 - Installation on CentOS

1. System Information	page 2
2. Prerequisites	page 2
2.1 PostgreSQL 8.1 or higher	
2.2 Java 1.5 SE Development Kit (JDK) or higher	
2.3 Ice 3.3.x	
2.4 Python 2.4.x or higher	
3. Create database as root	page 3
4. Installation	page 4
5. Starting Omero.web	page 4
6. Help sources	page 4

Note: mandatory commands are in **bold**. Commands used only for verification purposes are in plain text. Shell output is in **blue**. Files content is in **orange**. Notes are in **green**.

1. System Information

```
cat /etc/*-release
```

```
CentOS release 5.3 (Final)
```

```
uname -a
```

```
Linux isin05.dti.supsi.ch 2.6.18-164.11.1.el5xen #1 SMP Wed Jan 20 08:06:04 EST 2010 x86_64 x86_64 x86_64  
GNU/Linux
```

2. Prerequisites

2.1 PostgreSQL 8.1 or higher

```
yum install postgresql postgresql-server
```

```
createuser -V
```

```
createuser (PostgreSQL) 8.1.21
```

```
createdb -V
```

```
createdb (PostgreSQL) 8.1.21
```

```
chkconfig postgresql on
```

```
service postgresql start
```

```
netstat -an | egrep '5432.*LISTEN'
```

```
tcp    0    0 127.0.0.1:5432      0.0.0.0:*           LISTEN
```

```
vi /var/lib/pgsql/data/pg_hba.conf
```

```
replace content with:
```

```
host all all 127.0.0.1/32 trust
```

```
service postgresql restart
```

2.2 Java 1.5 SE Development Kit (JDK) or higher

```
cd /opt
```

```
wget "[GIANT_SUN_URL_TO_GET_THE_JAVA_BIN_FILE]"
```

```
/bin/sh jdk-6u7-linux-x64.bin
```

```
alternatives --install /usr/bin/java java /opt/jdk1.6.0_07/bin/java 2
```

```
alternatives --config java
```

```
export PATH=$PATH:/opt/jdk1.6.0_21/bin
```

```
java -version
```

```
java version "1.6.0_21"
```

```
Java(TM) SE Runtime Environment (build 1.6.0_21-b06)
```

```
Java HotSpot(TM) Client VM (build 17.0-b16, mixed mode, sharing)
```

2.3 Ice 3.3.x

```
cd /etc/yum.repos.d
```

```
vi CentOS-Base.repo
```

```
add at the end:
```

```
[zeroc-ice]  
name=Ice 3.3 for Red Hat Enterprise Linux $releasever - $basearch  
baseurl=http://www.zeroc.com/download/Ice/3.3/rhel4/$basearch  
enabled=1  
gpgcheck=1  
gpgkey=http://www.zeroc.com/download/RPM-GPG-KEY-zeroc-release
```

```
yum list ice* db46* mcpp-devel
```

```
yum install db46.x86_64 db46-devel.x86_64 db46-java.x86_64 db46-utils.x86_64 ice.noarch ice-java.noarch ice-  
java-devel.x86_64 ice-libs.x86_64 ice-php.x86_64 ice-python.x86_64 ice-python-devel.x86_64 ice-ruby.x86_64  
ice-ruby-devel.x86_64 ice-servers.x86_64 ice-utils.x86_64 mcpp-devel.x86_64  
(all packages available except ice-c++-devel-3.3.1-1.rhel4.x86_64)
```

```
export PATH=$PATH:/usr/lib64/python2.3/site-packages/Ice/
```

```
export PYTHONPATH=$PYTHONPATH:/usr/lib64/python2.3/site-packages/Ice/
```

2.4 Python 2.4.x or higher

already installed

3. Create database as root

```
sudo -u postgres createuser -P -D -R -S omero  
(pass '1234')
```

```
sudo -u postgres createdb -O omero omero
```

```
sudo -u postgres createlang plpgsql omero
```

```
psql -h localhost -U omero -l  
List of databases  
Name | Owner | Encoding  
-----+-----+-----  
omero | omero | UTF8  
postgres | postgres | UTF8  
template0 | postgres | UTF8  
template1 | postgres | UTF8  
(4 rows)
```

4. Installation

```
mkdir /OMERO
```

```
useradd omerouser
```

```
usermod -p "1234" omerouser
```

```
chown -R omerouser /OMERO
```

```
cd /OMERO
```

```
su omerouser
```

```
wget http://cvs.openmicroscopy.org.uk/snapshots/omero/omero-Beta4.1.1.tar.bz2  
(download from http://www.openmicroscopy.org/site/support/omero4/downloads)
```

```
tar xvjf omero-Beta4.1.1.tar.bz2
```

```
cd omero_dist
```

```
bin/omero config set omero.db.name 'omero'
```

```
bin/omero config set omero.db.user 'omero'
```

```
bin/omero config set omero.db.pass '1234'
```

```
bin/omero db script
```

```
psql -h localhost -U omero omero < OMERO4.1_0.sql
```

```
bin/omero admin start
```

5. Starting OMERO.web

```
bin/omero web settings
```

```
bin/omero web start
```

6. Help sources

<http://www.cyberciti.biz/faq/howto-fedora-linux-install-postgresql-server/>

<http://www.openmicroscopy.org/site/support/omero4/server/postgresql>

<http://www.cyberciti.biz/faq/psql-fatal-ident-authentication-failed-for-user/>

<http://chrisschuld.com/2008/10/installing-sun-java-on-centos-5-2/>