

Setting up OMERO on an out of the box RHEL6 Workstation

Ingvar Lagerstedt 16/Feb/2012

PDBe / EMDB



Specification

- Dell Precision T5500
 - Dual quad core
 - 12 GB RAM
 - 500 GB disk
 - RHEL6 Workstation
- Red Hat comes in many flavours – what is included on the boxes varies significantly.
 - RHEL6
 - RHEL6 Server – compilers, X-server etc. may be missing
 - RHEL6 Workstation
 - RH non EL

Registration

- Careful to distinguish between RH and RHN registration
- trying to do RHN first caused some confusion
- RHN refused to accept that I was not an EBI systems managed machine

Initial updates

- Came with RHEL6.0 out of the box
- ~600 updates later X-server failed to come up on reboot
 - Edit driver module blacklist to include flgrx and not radeon
- Disk partitioning - /home had only 4GB
 - Moved /home into main partition
- Firefox 3.x to 10 – failed. Downloaded installer worked.

Ice 3.4.2

- ZeroC only had RHEL6Server and RHEL6 versions available through yum.
- They added a RHEL6Workstation version on request – two rounds of queries to make them understand that it was a versioning issue
- Place zeroc-ice-rhel6.repo in /etc/yum.repos.d
- yum install ice ice-* db48* mcpp-devel (ZeroC recommends ice* which fails on non ZeroC components)
- set ICE_HOME=/usr

Postgres

- postgresQL8.4.9 installed but not server and contrib parts
- yum install postgresql-server postgresql-contrib
- OMERO manual refer to /var/lib/postgresql... this has moved to /var/lib/pgsql
- Documentation mentions that there 8.4 require some extra steps not in 8.3 but does not list what they are
- service postgresql initdb
- chkconfig postgresql on
- pg_hba.conf has “METHOD” md5 -> ident (is this an issue?)
- service postgresql start

Python

- Python 2.6.6 by default
- easy_install installed via “egg” method
 - Installing rpm from pypi.python.org/pypi/setuptools failed
- easy_install PIL
 - Installed but with several warnings: package name, C-compiler
 - TKINTER, LITTLECMS not supported – think this is OK
- easy_install numpy – many warnings and errors – despite this it appears to work. numpy.distutil failed. Some of the warnings were due to no proper math libraries – blas/atlas/lapack installed. In a production environment you may want to install them before installing numpy

Build tools

- yum install ant – could not build, easy to figure out
- yum install log4j – lots of warnings/errors, still easy to figure out
- yum install ant-* - still lots of warnings, at this point not inclined to try the add-ons one by one

git

- Remember to add your public rsa key to `.ssh/id_rsa.pub`
- `git init` – do not forget to do this once
- `git clone git://git.openmicroscopy.org/ome.git`
- `etc/omero.properties` -> `etc/local.properties`
 - `omero.version=4.4.0-DEV`
 - `versions.ice=3.4.2` – no good the ivy resolver could not resolve this
 - `versions.ice=3.3.1` – no good, slice runs fine, but then the java build fails on missing Ice 3.4 components
- Missing `ice-3.4.2.jar` etc, which I get on my other system.


The vision

Home **EMD-1051**

Title: Untangling desmosomal knots with electron tomog
Authors: He W, Cowin P, Stokes DL
Sample: mouse skin
Aggregation state: Individual structure (30 angstroms resolution)
Latest update: 2011-05-26

- Summary
- Experimental details
- Visualization
- Map information
- Downloads

Visualization
This is a 3D reconstruction map of an desmosome based on high pressure freezing/freeze-substitution electron tomography
Suggested contour level: $1.95e+03$



[Launch Atlas Viewer](#)
[Launch Slice Viewer](#)
[Launch Map Overview Page](#)

Atlas images are either supplied by the depositor or generated by EMDatBank using UCSF Chimera.

Full Viewer

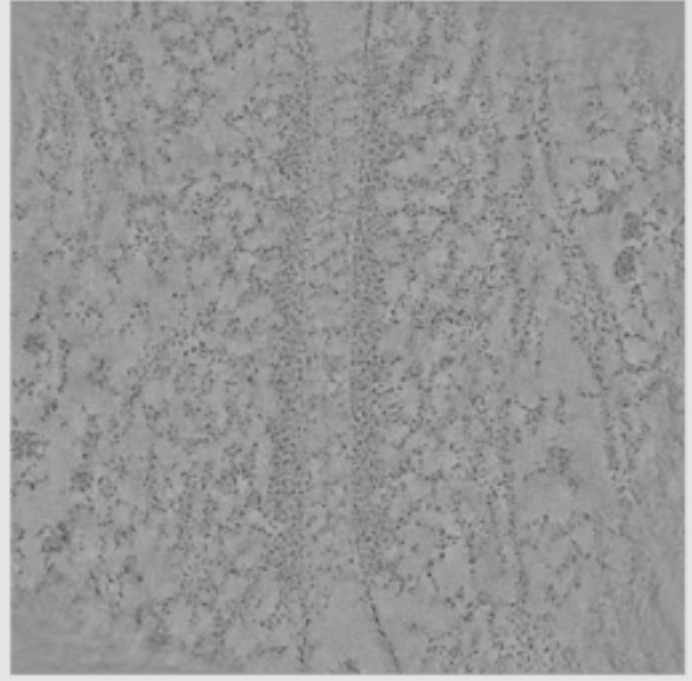
http://emdb.openmicroscopy.org.uk/webemdb/1051_sliceviewer/

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Viewing Options

Normal
Max Intensity
Quality Normal
Zoom 100
Line Plot
Rendering Details
[Edit Rendering](#)
Current Image
Z: 32/52
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Z-sections



Timepoints

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