

Developers installation guide - Ubuntu

About this document

Purpose

This document describes the installation of ICE on a Ubuntu 8.10, 9.04 and 9.10 systems.

Audience

Software developers and users with a technical knowledge of Ubuntu Linux.

Requirements

This document assumes knowledge of basic Linux command-line tools.

You will need root access to your system in order to install the required software.

Note

Proxy users: SVN access to content (installation packages or ICE repositories), may require changing the SVN proxy settings inside the SVN server setting files when switching between accessing an internal svn repository and an external svn repository.

References

For more detailed information about Subversion repositories see the Subversion website at <http://subversion.tigris.org>

This version date

09/11/09

Ubuntu 8.10

Install OpenOffice.org 3

At the time of preparing this procedure, OpenOffice.org 3 was not available as an official package for Ubuntu 8.10. This install OpenOffice.org 3 or update a previous version to version 3.

Firstly, add the OpenOffice.org package source to Ubuntu's package system:

1. From the **System** menu, choose **Administration/Software Sources**
2. Select the **Third-Party Software** tab
3. Click on the **Add** button
4. Paste the following text into the text box:

```
deb http://ppa.launchpad.net/openoffice-pkgs/ubuntu intrepid main
```

5. Click on the **Add Sources** button
6. Click on **Close** button

Install the packages:

1. From the **System** menu, choose **Administration/Synaptic Package Manager**
2. Locate the openoffice.org package and right-click, selecting **Mark for Installation** or **Mark**

for Upgrade (depending on if you have an earlier version or not).

3. Click on the Apply button in the toolbar to install the package.

Install the Python packages

1. Type the following command within a command prompt:

```
sudo aptitude install subversion python-paste python-imaging python-libxml2

sudo aptitude install python-libxslt1 python-setuptools python-svn python-twisted-web python-uno

sudo aptitude install python2.5-dev python-cheetah python-gdata python-textile python-openid python-lxml
```

2. Install the foresite toolkit using the following commands:

```
sudo easy_install-2.5 -U rdflib==2.4.0

wget http://foresite-toolkit.googlecode.com/files/foresite-1.1.tgz

tar xzvf foresite-0.9.tgz

cd ${FORESITE_SRC_DIR}

sudo python ./setup.py install
```

3. Install the PyLucene library using the following commands:

```
wget
http://downloads.osafoundation.org/PyLucene/linux/ubuntu/7.04/PyLucene-2.2.0-1.tar.gz

tar xzvf PyLucene-2.2.0-1.tar.gz

sudo cp -r PyLucene-2.2.0-1/python/ /usr/lib/python2.5/site-packages/
```

4. Install remaining packages

```
sudo easy_install-2.5 pycurl

sudo easy_install-2.5 pyPdf
```

Ubuntu 9.04

Install python libraries

1. Add the following via Synaptic Package manager or `sudo aptitude install` command:
 - subversion
 - python-svn
 - python-libxslt1

- python-paste
- python-twisted
- python-setuptools
- python2.6-dev
- idle (opt)
- python-cheetah
- python-textile
- python-openid
- python-gdata
- python-lxml
- python-pycurl
- python-pypdf
- python-reportlab
- build-essential

Install jcc

```
sudo easy_install jcc
```

Install pylucene

1. The Pylucene that comes with Ubuntu 9.04 is compatible with Python2.5, so the version that's compatible with Python2.6 is required.

```
cd ~/downloads  
  
wget http://apache.wildit.net.au/lucene/pylucene/pylucene-2.4.1-1-  
src.tar.gz  
  
tar -zxvf pylucene-2.4.1-1-src.tar.gz  
  
cd pylucene-2.4.1-1  
  
pushd jcc  
  
sudo apt-get install patch  
  
sudo apt-get install ant
```

2. Apply patch

```
sudo patch -d -Nup0 /usr/lib/python2.6/dist-packages <  
~/downloads/pylucene-2.4.1-1/jcc/jcc/patches/patch.43  
  
python setup.py build  
  
sudo python setup.py install  
  
popd
```

3. Edit the Makefile to match the Ubuntu environment by uncommenting and editing lines below #Linux Ubuntu version 8.10 etc)

```
PREFIX_PYTHON=/usr

ANT=ant

PYTHON=$(PREFIX_PYTHON)/bin/python

JCC=$(PYTHON) /usr/local/lib/python2.6/dist-packages/JCC-2.2-py2.6-linux-
i686.egg/jcc/__init__.py --shared

NUM_FILES=2
```

4. If using a proxy (optional)

```
edit ~/.subversion
add http-proxy-host and http-proxy-port
```

5. Continue with the installation

```
make

sudo make install
```

6. Turn off proxy (optional)

```
edit ~/.subversion
comment out http-proxy-host and http-proxy-port
```

Install foresite

```
wget http://foresite-toolkit.googlecode.com/files/foresite-1.1.tgz

tar xzvf foresite-1.1.tgz

cd ${FORESITE_SRC_DIR}

sudo python setup.py install
```

Ubuntu 9.10

Basically the same as for Ubuntu 9.04, but note the following changes for installation of pylucene and jcc.

Install jcc

```
sudo easy_install jcc
```

Note: the installation path (e.g. /usr/local/lib/python2.6/dist-packages/JCC-2.4-py2.6-linux-i686.egg)

Install pylucene

1. Download pylucene

```
cd ~/downloads

wget http://apache.wildit.net.au/lucene/pylucene/pylucene-2.9.0-1-
src.tar.gz

tar -zxvf pylucene-2.9.0-1-src.tar.gz

cd pylucene-2.9.0-1

pushd jcc

sudo apt-get install patch

sudo apt-get install ant
```

2. Apply patch

```
sudo patch -d -Nup0 /usr/lib/python2.6/dist-packages <
~/downloads/pylucene-2.4.1-1/jcc/jcc/patches/patch.43

python setup.py build

sudo python setup.py install

popd
```

3. Edit the Makefile to match the Ubuntu environment by uncommenting and editing lines below #Linux Ubuntu version 8.10 etc)

```
PREFIX_PYTHON=/usr

ANT=ant

PYTHON=$(PREFIX_PYTHON)/bin/python

JCC=$(PYTHON) /usr/local/lib/python2.6/dist-packages/JCC-2.4-py2.6-linux-
i686.egg/jcc/__init__.py --shared

NUM_FILES=2
```

Note: the above JCC path should be the same as where easy_install installed JCC.

4. Install pylucene

```
make

sudo make install
```

Verify the packages are installed

1. The Python packages can be verified by:

```
python
```

```
>>>import Image
>>>import libxslt
>>>import libxml2
>>>import pysvn
>>>import Cheetah
>>>import paste
>>>import rdflib
>>>import gdata
>>>import textile
>>>import openid
>>>import lxml
>>>import pycurl
>>>import pyPdf
>>>import reportlab
>>>import foresite
>>>import lucene
```

Configure OpenOffice.org

1. Open [Configure OpenOffice.org](#)
2. When the document loads select enable macros.
3. From the menubar select ICE...Change port
4. Enter 2002
5. Close the document and restart the application

Install ICE

1. Download the ICE trunk source and start the ICE application:

```
svn co http://ice.usq.edu.au/svn/ice/trunk/apps ice-source
cd ice-source/ice
python ice2.py
```

2. Setup an ICE repository
3. Configure ICE
Save http://ice.usq.edu.au/svn/ice/trunk/apps/ice/config_sample.xml as config.xml in either ~/ .ice or ice-source/ice

Install ICE Toolbar

1. Set ICE_HOME to ice-source/ice
2. Add ICE Toolbar to OpenOffice.org by following the standard [OpenOffice instructions](#).