

Indico howto on Gentoo (07/02/08) by Sylvain Boschetto

1. Required Software:

1.1. Python 2.3.4 (or above) :
dev-lang/python

1.2. Apache HTTP Server 2.0 (or above) :
www-servers/apache-2.2.6-r7

1.3. ZODB 3.3 :
net-zope/zodb-3.3.1

1.4. Reportlab 1.19 (or above) :
dev-python/reportlab-1.20

1.5. mod_python 3.1.3 (or above) :
www-apache/mod_python

1.6. libxml and libxsl
dev-libs/libxml2
dev-libs/libxslt

1.7. Python Imaging Library (Optional)
dev-python/imaging

1.8. Indico 0.94
<http://cdsware.cern.ch/indico/download/cds-indico-0.94.0.tar.gz>

2. Software Installation :

2.1 Python 2.4.4 :
Already installed on Gentoo

2.2 Apache 2.2.6-r7
emerge -av apache (USE="ldap ssl")

2.3 ZODB 3.3.1
emerge -av zodb

2.4. Reportlab 1.20
emerge -av reportlab

2.5 mod_python
emerge -av mod_python

2.6 libxml and libxsl
emerge -av libxml2
emerge -av libxslt

2.7 Python Imaging Library
emerge -av imaging

2.8 Indico
Custom installation :

```
cd /tmp/  
tar -xvzf Indico-0.94.0.tar.gz  
cd Indico-0.94
```

Edit the config.xml :

```
<paths>  
<pathname>htdocs</pathname>  
<pathdir>/var/www/localhost/htdocs/MaKaC</pathdir>  
</paths>  
  
<access>  
  <group>apache</group>  
  <user>apache</user>  
</access>  
  
<url>http://hostname or ip adress of your server/MaKaC</url>  
  
<email>yourname@yourdomain.com</email>  
  
<smtpConfig>  
  <SMTPUseTLS>no</SMTPUseTLS>  
  <SMTPServer>yoursmtptserver</SMTPServer>  
  <SMTPLogin></SMTPLogin>  
  <SMTPPassword></SMTPPassword>  
</smtpConfig>
```

After make your adjustments, run :

```
python setup.py install
```

3. Programs configuration :

3.1 Apache server :

Load the python module :

```
cd /etc/apache2/modules.d/
```

Edit the file 16_mod_python.conf, verify that you have this line :

```
LoadModule python_module modules/mod_python.so
```

The python handler :

Always in /etc/apache2/modules.d/16_mod_python.conf, add this few lines at the end of the file :

```
<Directory /var/www/localhost/htdocs/MaKaC>
AddHandler python-program .py
    DirectoryIndex index.html index.cgi index.pl index.php index.xhtml index.py
    PythonHandler mod_python.publisher
    PythonDebug On
</Directory>
```

Change proprietary of the public folder :

```
chown -R apache:apache /var/www/localhost/htdocs/MaKaC
```

3.2 ZODB

Create a zeo configuration file :

```
vim /usr/lib/python2.4/site-packages/ZEO/zeo.config
```

```
<zeo>
address 0.0.0.0:9675
monitor-address 200.xx.xx.xx:8091 #your server ip adress
</zeo>
```

```
<filestorage 1>
path /var/local/zodb/Data.fs
</filestorage>
```

```
<eventlog>
<logfile>
path /var/log/zodb.log
format %(asctime)s %(message)s
</logfile>
</eventlog>
```

After the creation of this file, don't forget to create the directories where data is going to be saved, for this example i have used :

```
mkdir -p /var/local/zodb
```

4 Running Indico :

4.1 Starting the ZODB :

```
cd /usr/lib/python2.4/site-packages/ZEO
```

```
python runzeo.py -C zeo.config &
```

4.2 Starting Apache server

```
/etc/init.d/apache2 start
```

4.3 Now, point your web browser to the URL followed by index.py :

```
http://your location/MaKaC/index.py
```