

# FIRST INDICO WORKSHOP

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Hands-on: install & config

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# 4 THINGS

## The Indico Hacker Toolkit

A shell

Python ( $\geq 2.6$ )

Virtualenv

# BEFORE WE START...

**Note:** will mention only **apt-get** and **brew** for the sake of simplicity



```
$ sudo apt-get install python-dev  
libxml2-dev libxslt-dev
```



```
$ brew install libxml2 libxslt
```

# CREATING THE VIRTUALENV



```
$ sudo apt-get install python-  
virtualenv
```



```
$ sudo brew install python  
$ sudo pip install virtualenv
```

```
$ virtualenv indico-prod  
Installing distribute.....done.  
Installing pip.....done.
```

# ACTIVATE VIRTUALENV

```
$ cd indico-prod  
$ mkdir data  
$ source ./bin/activate  
(indico-prod)$
```

Before starting, 2 libs must be installed manually:



```
(indico-prod)$ pip install reportlab PIL
```

# INSTALL — 1<sup>ST</sup> STEP

```
(indico-prod)$ easy_install indico
```

```
...
```

```
Finished processing dependencies for indico
```

# INSTALL — 2<sup>ND</sup> STEP

```
(indico-prod)$ indico_initial_setup
```

```
...
```

```
[/opt/indico]: /home/myuser/indico-prod/data/
```

```
You now need to configure Indico, by editing indico.conf or  
letting us do it for you.
```

```
At this point you can:
```

```
    [c]opy the default values in etc/indico.conf.sample to a new  
etc/indico.conf and continue the installation
```

```
    [A]bort the installation in order to inspect etc/  
indico.conf.sample and/or to make your own etc/indico.conf
```

```
What do you want to do [c/a]? c
```

# INSTALL — 2<sup>ND</sup> STEP

...

What do you want to do [c/a]? C

...

We cannot find a configured database at /Users/jbenito/Work/projects/indico/development/tmp/workshop/indico-prod/data/db.

Do you want to create a new database now [Y/n]? Y

Where do you want to install the database [/home/myuser/indico-prod/data/db]? (hit enter)

...

# INSTALL – 2<sup>ND</sup> STEP

...

If you are running ZODB on this host:

- Review `/home/myuser/indico-prod/data/etc/zodb.conf` and `/home/myuser/indico-prod/data/etc/zdctl.conf` to make sure everything is ok.
  - To start the database run: `zdaemon -C /home/myuser/indico-prod/data/etc/zdctl.conf start`
- `(indico-prod)$`

# INSTALL — 3<sup>RD</sup> STEP — RUN DB

```
(indico-prod)$ vim data/etc/zdctl.conf
```

```
<runner>
```

```
  program      runzeo -C /home/myuser/indico-prod/data/etc/
```

```
zodb.conf
```

```
  user         myuser
```

```
  daemon      true
```

```
  directory   /home/myuser/indico-prod/data/db
```

```
  socket-name /home/myuser/indico-prod/data/db/zdsock
```

```
</runner>
```

```
<environment>
```

```
  PYTHON_EGG_CACHE /home/myuser/indico-prod/data/tmp/egg-cache
```

```
</environment>
```

```
:X
```

# INSTALL — 3<sup>RD</sup> STEP — RUN DB

```
(indico-prod)$ zdaemon -C /home/myuser/indico-  
prod/data/etc/zdctl.conf start  
...  
daemon process started, pid=9999
```

# HTTPS

**Note:** use https in production!

Only for this example let's disable https

```
$ vim data/etc/indico.conf
```

```
AuthenticatedEnforceSecure = "no"
```

```
BaseSecureURL              = "" #empty string
```

```
:x
```

# STARTING THE WEB SERVER

**Note:** This is a development server. Don't use it in production!

```
$ sudo indico_shell --web-server --port=80
* Using BaseURL http://localhost:80/indico
* Running on http://localhost:80/
```

Try it! <http://localhost/indico>

# TROUBLESHOOTING

indico-shell keeps hanging?

```
(indico-prod)$ zdaemon -C /home/myuser/indico-prod/data/etc/zdctl.conf stop
```

```
$ vim /opt/indico/etc/zodb.conf
<zeo>
address 127.0.0.1:9675
monitor-address localhost:8091
</zeo>
```

```
$ vim /opt/indico/etc/indico.conf
#-----
# ZODB
#-----

DBConnectionParams = ('127.0.0.1', 9675)
```

# CREATE 1<sup>ST</sup> USER

Note: Activate and add yourself as admin ASAP

INDICO  
Integrated Digital Conference

UTC English Login

Home Create event Help

## Log in to Indico

User Name

Password

Login

+ If you don't have an account, you can create one [here](#)

+ Forgot your password? [Click here](#)

# TROUBLESHOOTING

You have created an account, but Indico didn't send email!

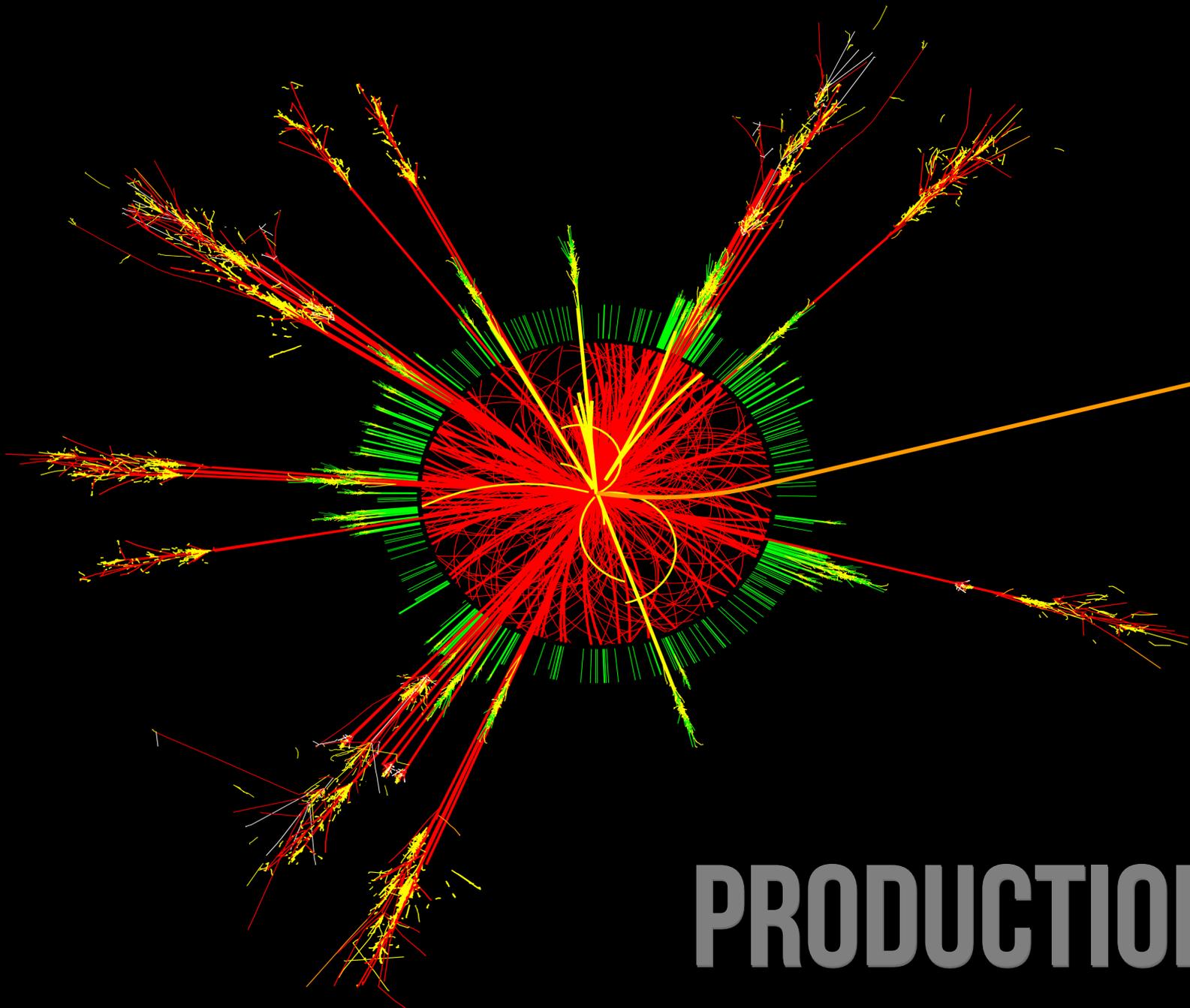
2 solutions:

Do not forget to add yourself as admin from:  
<http://localhost/indico/adminList.py>

```
$ indico_shell
>>> av=AvatarHolder().getById('0')
>>> av.activateAccount()
>>> dbi.commit()
>>> exit()
```

or

```
$ indico_admin grant 0
```



**PRODUCTION**

# INIT & MIGRATION

```
(indico-prod)$ indico_initial_setup --existing-  
config=/opt/indico/etc/indico.conf
```

```
(indico-prod)$ python data/bin/migration/  
migrate.py --prev-version=<version>
```

# CHOOSE A GOOD WEB SERVER

Apache? Nginx? We use Apache + mod\_wsgi

```
<VirtualHost *:80>
    ErrorLog /var/log/apache2/error.log
    LogLevel warn
    Alias /indico/images "/opt/indico/htdocs/images"
    Alias /indico/css "/opt/indico/htdocs/css"
    Alias /indico/js "/opt/indico/htdocs/js"
    Alias /indico/ihelp "/opt/indico/htdocs/ihelp"

    WSGIDaemonProcess WSGIDAEMON processes=32 threads=1 inactivity-timeout=3600 maximum-
requests=10000 python-eggs=/opt/indico/tmp/egg-cache

    WSGIScriptAlias /indico "/opt/indico/htdocs/index.wsgi"

    <Directory "/opt/indico">
        WSGIProcessGroup WSGIDAEMON
        WSGIApplicationGroup %{GLOBAL}
        AllowOverride None
        Options None
        Order deny,allow
        Allow from all
    </Directory>
</VirtualHost>
```

# CONFIGURATION

Main configuration files you must check!

indico.conf      configure depending on your needs

logging.conf    log reports (info, error, etc)

zodb.conf        db configuration (path, log)

zctl.conf        zdaemon config (keeps db up)

# DATABASE SECURITY

Pay attention to **security**

`zeopassword` Update a user's authentication tokens for a ZEO server

```
zeopasswd -C data/etc/zodb.conf _USER_ _PASSW_
```

```
$ vim /opt/indico/etc/zodb.conf
```

```
<zeo>
```

```
address localhost:9675
```

```
monitor-address localhost:8091
```

```
transaction-timeout 30
```

```
authentication-protocol digest
```

```
authentication-database /opt/indico/etc/zeopassdb
```

```
authentication-realm yourindicodb.domain.ch
```

```
</zeo>
```

```
<filestorage 1>
```

```
path /opt/indico/db/data.fs
```

```
</filestorage>
```

```
<eventlog>
```

```
<logfile>
```

```
path /opt/indico/log/zeo.log
```

```
format %(asctime)s %(message)s
```

```
</logfile>
```

```
</eventlog>
```

```
$ vim /opt/indico/etc/indico.conf
```

```
#-----  
# ZODB  
#-----
```

```
DBConnectionParams = ('localhost', 9675)  
DBUserName          = "_USER_"  
DBPassword          = "_PASSW_"  
DBRealm             = "yourindicodb.domain.ch"
```

# QUESTIONS?



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**<http://indico-software.org/wiki/Admin/Installation0.98>**