# Lobber development sandbox

Description of how to install the software needed for Lobber.

## Hosts

| Hostname | Use |
|---|---|
| app-dev.lobber.se | Web application server |
| db-dev.lobber.se | PgSQL server |
| tracker-dev.lobber.se | BT Tracker |
| sn-dev.lobber.se | Storage Node |

All hosts are running Ubuntu (9.10 from day 0) with the following extra packages and customizations.

### common to all

```
apt-get install git-core git-doc ssl-cert git-core
```

```
apt-get install postfix
# local only configuration!
```

### app-dev.lobber.se

```
apt-get install python-django apache2 libapache2-mod-shib2 python-libtorrent \
   python-bittorrent python-django-doc python-egenix-mxdatetime python-egenix-mxtools \
   python-psycopg2 python-pycurl python-openssl postgresql-client-8.4 python-twisted \
   python-setuptools python-pysqlite2 libapache2-mod-python python-django-tagging \
   python-werkzeug python-django-extensions python-django-evolution deluge-common
```

python-setuptools gives us easy-install which we use for installing some stuff not packaged in Debian packages:

- http://orbited.org

```
# easy_install orbited
# easy_install stompservice
```

Get a 3.x version of stomp.py from http://code.google.com/p/stomppy/ and install:

Create `/etc/orbited.cfg`:

```
[listen]
http://:9001
stomp://:61613

[access]
* -> localhost:61613

[static]

[global]
session.ping_interval = 300
user=www-data

[logging]
debug=STDERR,debug.log
info=STDERR,info.log
access=STDERR,info.log
warn=STDERR,error.log
error=STDERR,error.log

#Don't enable debug by default
enabled.default=info,access,warn,error
```

och se till att orbited startas: `orbited -c /etc/orbited.cfg` vid boot (/etc/rc.local till nöds)

and make sure that orbited is started like this automatically at boot: `orbited -c /etc/orbited.cfg`

Activate some Apache modules:

```
# a2enmod shib2
# a2enmod headers
# a2enmod rewrite
# a2enmod proxy
# a2enmod proxy_http
```

Set up cron jobs for expiring old torrents, keys and peers.

```
# m h dom mon dow command
*/5 * * * * cd /../lobber/src/ && ./dev-django-admin.sh expire_peers 5 /dev/null 2>&1
0 0 * * * cd /../lobber/src/ && ./dev-django-admin.sh expire_torrents >/dev/null 2>&1
5 0 * * * cd /../lobber/src/ && ./dev-django-admin.sh expire_keys >/dev/null 2>&1
```

Finally, make sure that Lobber can send email. This is done via STOMP messages to a twisted. Run this (in the src directory):

```
# env PYTHONPATH=`pwd`:$PYTHONPATH twistd -y sendmail.tac
```

## sn-dev.lobber.se

See Running a storage node

Note that app-dev is a storage node too nowadays – that's how we do file upload.

## db-dev.lobber.se

```
apt-get install postgresql
```

## Setting up your own sandbox

1. apt-get install virtualenv
2. virtualenv /mina/envs/lobber
3. . /mina/envs/lobber/bin/activate
4. pip install django django-extensions django-tagging orbited uuid django-evolution stomp.py werkzeug
5. apt-get deluge
6. git clone git@git.nordu.net:lobber.git (alt. git pull)
7. cd lobber
8. git checkout embedded-tracker
9. mkdir db
10. mkdir logs
11. cd src
12. ./dev-django-admin.sh syncdb
13. ln -s /mina/envs/lobber env
14. ln -s env/lib/python2.6/site-packages/django/contrib/admin/media admin-media
15. Edit paths in settings.py
16. ./dev-django-admin.sh runserver_plus