

Lobber setup (bud light)

Description of how to install the software needed for Lobber.

Page index

1. [Common](#)
2. [Web application and tracker server](#)
3. [Storage node](#)
4. [Database server](#)
5. [Development sandbox](#)

Common

All hosts are running Ubuntu (10.04) with the following extra packages and customizations.

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

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

Web application and tracker server

Install the following packages:

```
apt-get install apache2 libapache2-mod-wsgi libapache2-mod-shib2 libpq-dev python-dev python-twisted python-pip
```

If you don't want to install libpq-dev and python-dev you can install psycopg2 with apt and later symlink it to your virtual python environment.

```
ln -s /usr/lib/python2.6/dist-packages/psycopg2 /path/to/lobber_env/lib/python2.6/site-packages  
ln -s /usr/lib/python2.6/dist-packages/mx /path/to/lobber_env/lib/python2.6/site-packages  
ln -s /usr/lib/python2.6/dist-packages/psycopg2-2.0.13.egg-info /path/to/lobber_env/lib/python2.6/site-packages
```

Orbited can not be installed in the lobber python environment because it requires python-twisted.

```
pip install orbited
```

Set up a virtual python environment ([virtualenv](#)) and activate it.

```
virtualenv --no-site-packages /path/to/lobber_env  
source /path/to/lobber_env/bin/activate
```

Install the needed python applications. (Yes, orbited again...needed as import in django)

```
pip install django django-tagging django-form-utils stomp.py psycopg2 orbited
```

You need these if you are setting up a development sandbox:

```
pip install uuid django-evolution django-extensions werkzeug django-debug-toolbar
```

Get Lobber from git.nordu.net and check out the latest stable version.

```
git clone git://git.nordu.net/lobber.git
cd lobster
git checkout bud-light
```

Create the a log, torrent and a dropbox directory in the lobster root directory. Make the writable by the Apache user.

```
cd /path/to/lobber/
mkdir logs
mkdir torrents
mkdir dropbox
```

Symlink the environment directory and Django admin media directory in to the src directory.

```
cd /path/to/lobber/src
ln -s /path/to/lobber_env env
ln -s env/lib/python2.6/site-packages/django/contrib/admin/media admin-media
```

Edit paths and other options in settings.py.

settings.py

```
BASE_DIR = '/path/to/lobber'

APP_ADDR = 'host_ip or FQDN'
BASE_UI_URL = 'https://' + APP_ADDR

TRACKER_ADDR = 'host_ip or FQDN'
ANNOUNCE_BASE_URL = 'https://' + TRACKER_ADDR

ADMINS = (
    ('Your name', 'your@email.net'),
)

DATABASE_ENGINE = 'postgresql_psycopg2'
DATABASE_NAME = 'lobber'
DATABASE_USER = 'lobber'
DATABASE_PASSWORD = 'secret_password'
DATABASE_HOST = 'database host'
DATABASE_PORT = 'database port'

DROPBOX_DIR = '/path/to/lobber/dropbox'

# Make this unique, and don't share it with anybody.
SECRET_KEY = 'secret'

INSTALLED_APPS = (
    'django.contrib.auth',
    'django.contrib.contenttypes',      # For the Permission model.
    'django.contrib.sessions',
    'django.contrib.sites',
    'django.contrib.admin',
    'tagging',
    'lobber.extensions',
    'lobber.userprofile',
    'lobber.share',
    'lobber.links',
    'lobber.tracker',
    'lobber.auth'
)
```

If you are using Django 1.3 (standard from pip) then you need to change your database settings to:

settings.py

```
DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.postgresql_psycopg2',
        'NAME': 'lobber',
        'USER': 'lobber',
        'PASSWORD': 'secret',
        'HOST': 'database_server',
        'PORT': 'database_port'
    }
}
```

Synchronize the [database](#).

```
./dev-django-admin.sh syncdb
```

Setup [Orbited](#) by creating `/etc/orbited.cfg`:

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
```

and make sure that orbited is started like this automatically at boot:

```
echo "orbited -c /etc/orbited.cfg" >> /etc/rc.local
```

Then start orbited:

```
orbited -c /etc/orbited.cfg &
```

Activate some Apache modules:

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

Restart Apache

```
/etc/init.d/apache2 restart
```

Edit lobber/src/lobber.wsgi:

lobber.wsgi

```
sys.path.append('/path/to/lobber/src')
```

Create /etc/apache2/conf.d/lobber:

lobber

```
WSGIPythonPath "/path/to/lobber:/path/to/lobber/src"
WSGIPythonHome "/path/to/lobber/src/env"
WSGIRestrictStdout Off
WSGIScriptAlias / /path/to/lobber/src/lobber.wsgi
```

Edit /etc/apache2/sites-available/default-ssl:

default

```
Alias /admin-media /path/to/lobber/admin-media
Alias /site-media /path/to/lobber/site-media
```

Documentation on how to set up Apache to handle https can be found here:

1. <http://www.tc.umn.edu/~brams006/selfsign.html>
2. http://www.tc.umn.edu/~brams006/selfsign_ubuntu.html

Usual problems:

- /path/to/lobber/logs/web.log is not writable by www-data (apache user).
- /path/to/lobber/torrents/ is not writable by www-data (apache user).
- /path/to/lobber/dropbox/ is not writable by www-data (apache user).
- /path/to/lobber/db/ (if you are using sqlite) is not writable by www-data (apache user).



Missing documentation

Documentation on how to set up federated login using mod_shib2 should be added or linked to.

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

```
PATH=/usr/bin:/usr/sbin:/path/to/lobber/src/env/bin
# m h dom mon dow command
*/5 * * * * cd /path/to/lobber/src/ && ./dev-django-admin.sh expire_peers 5
0 0 * * * cd /path/to/lobber/src/ && ./dev-django-admin.sh expire_torrents
5 0 * * * cd /path/to/lobber/src/ && ./dev-django-admin.sh expire_keys
```

To be able to accept file uploads in the Lobber web application you need to install a [Lobber storage node](#) on the web application and tracker server.

Storage node

See [Running a storage node \(bud light\)](#)

Note that the web application and tracker server needs a storage node nowadays – that's how we do file upload.

Database server

```
apt-get install postgresql-client-8.4
```

Look at the official [Django database documentation](#).

Setting up your own development sandbox

1. apt-get install python-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 psychopg2
5. git clone git@git.nordu.net:lobber.git (alt. git pull)
6. cd lobber
7. git checkout <branch>
8. mkdir db
9. mkdir logs
10. cd src
11. ./dev-django-admin.sh syncdb
12. ln -s /mina/envs/lobber env
13. ln -s env/lib/python2.6/site-packages/django/contrib/admin/media admin-media
14. Edit paths in settings.py
15. ./dev-django-admin.sh runserver_plus