

# HowToJettyInstall

## Running Lenya 2 in Jetty 6 with Apache 2

While the standalone build of Lenya is good to get started with, it's not really good enough for most production uses. This how-to explains how you can set up Lenya under a more typical production configuration, using Jetty 6 and Apache 2. The example commands are from Debian-style Linux distros; replace with your own if you're not on one.

### 1. Set up the environment

1. Install Java 6 JDK from Sun. OpenJDK isn't fully compatible with Batik, the image processing library used in Lenya:
  - `# aptitude install sun-java6-jdk`
2. Install Jetty:
  - `# aptitude install jetty`
3. Install Apache 2:
  - `# aptitude install apache2`
4. Make sun-java your default JVM:
  - Go to `JAVA_HOME`, e.g. `/usr/lib/jvm` and `# ln -s java-6-sun default-java`
5. Test run Jetty.
  - `# /etc/init.d/jetty start`

...and surf to `localhost:8080` (or whichever port Jetty is set to run on; some default installs have it at 8280).

**Note:** I had a problem with a misconfiguration out of the box; I had to comment out the line `/etc/jetty/jetty-shared-webapps.xml` in `/usr/share/jetty/etc/jetty.conf`. YMMV.

### 2. Set up Lenya

1. Build Lenya as per the instructions. Standalone or `.war`, doesn't matter.
2. Put `lenya.war` or `[LENYA_SRC]/build/lenya/webapp` under `[JETTY_HOME]/webapps` (rename `webapp` to `lenya`).
3. Copy or link `[LENYA_SRC]/externals/cocoon_2_1_x/lib/endorsed/jakarta-regexp-1.5.jar` under `[JETTY_HOME]/lib/ext` (or put it elsewhere on your classpath).

Start Jetty and surf to <http://localhost:8080/lenya/>. You should see the Lenya homepage.

### 3. Set up the proxy directives:

1. Enable `mod_proxy` and `mod_proxy_http` in Apache. For example, go to `/etc/apache2/mods-enabled`, and symlink to `../mods-available/proxy.load`, `../mods-available/proxy.conf`, and `../mods-available/proxy_http.load`.
2. Add your proxy configs to `/etc/apache2/mods-available/proxy.conf`.

**Note:** There are lots and lots of ways to set up apache2; this is sort of the simplest case. Check the `httpd` documentation for more.

Mine looks something like this (replace `YOURPUB` with your publication, naturally):

```

<IfModule mod_proxy.c>

# Turn off support for true Proxy behaviour as we are acting as
# a transparent proxy

ProxyRequests Off

# Turn off VIA header as we know where the requests are proxied

ProxyVia Off

# Turn on Host header preservation so that the servlet container
# can write links with the correct host and rewriting can be avoided.

ProxyPreserveHost On

# Set the permissions for the proxy

<Proxy *>
    AddDefaultCharset off
    Order deny,allow
    Allow from all
</Proxy>

# Turn on Proxy status reporting at /status
# This should be better protected than: Allow from all

ProxyStatus On

<Location /status>
    SetHandler server-status
    Order Deny,Allow
    Allow from all
</Location>

# Make the domain root go to the 'live' area of the YOURPUB publication
ProxyPass ' ' http://localhost:8080/lenya/YOURPUB/live

# Find the base resources used for authoring
ProxyPass /lenya http://localhost:8080/lenya

# Shorten the URL for authoring
ProxyPass /authoring http://localhost:8080/lenya/YOURPUB/authoring

# Lenya sets a session cookie for /lenya, but we need it at /
ProxyPassReverseCookiePath /lenya /

</IfModule>

```

Note the ProxyPassReverseCookiePath directive – you need one if you mess with the URI paths as above.

### 3. Configure your publication for these proxies

Edit [YOURPUB\_HOME]/config/publication.xml and add the following to the <proxies> node:

```

<proxy area="live" ssl="false" url=""/>
<proxy area="authoring" ssl="false" url="/authoring"/>

```

You can also use full URL's, including the scheme and the domain, for the url attributes.

And that's about it.