

Running Lenya Behind Apache with mod_proxy

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1. Introduction

This tutorial aims at getting you started with a proxy environment. We're using Apache HTTPD 2.2 with the *mod_proxy* module. You'll find a lot of documentation on the web how to set up the web server on your machine.

Our goal is to run two virtual servers on your local machine:

- *cms.example.com* - the authoring environment of your publication
- *www.example.com* - the actual live site

Your administrators, editors etc. will use the URL *http://cms.example.com* to connect to the authoring environment. We'll require an SSL connection for the login usecase. Once you have established an SSL connection, your connection will stay encrypted.

The live area is mapped directly to the root of the *www.example.com* host. Since the authoring environment comprises different areas (for instance authoring, archive, trash), the publication root is mapped to the root of *cms.example.com*:

```
/pub/authoring <-> cms.example.com/authoring
/pub/archive   <-> cms.example.com/archive
/pub/trash     <-> cms.example.com/trash
/pub/live      <-> www.example.com
```

2. Declaring the Hosts

To tell your system that the *example.com* domains run on your local machine, open your *hosts* file, usually located at */etc/hosts*, and add the following lines:

```
127.0.0.1      cms.example.com
127.0.0.1      www.example.com
```

3. Configuring the Apache Web Server

There are multiple options to connect the Apache web server, which acts as the reverse proxy, to the Tomcat servlet container. The two most common ways are

- [mod_proxy](#) ([../..../docs/2_0_x/tutorials/proxy/proxy.html](#))
- [mod_proxy_ajp](#) ([../..../docs/2_0_x/tutorials/proxy/mod_proxy_ajp.html](#))
- [mod_jk](#)

mod_proxy is the classic, proven approach. The AJP protocol is newer, easier to set up and provides seamless SSL integration. For more information on which connector to choose, refer to the [Tomcat connectors FAQ](#) (<http://tomcat.apache.org/faq/connectors.html>) .

After configuring the Apache web server, you can restart it using

```
$ sudo apachectl restart
```

4. Configuring Tomcat's Cookie Path

Note:

You'll certainly run into cookie problems when using a non-empty context path (like *lenya14* in the example above) instead of running Lenya in

the root context. This causes errors like "The session doesn't contain the identity.". To avoid these problems, edit `$TOMCAT_HOME/conf/server.xml` and set the `emptySessionPath` attribute of the Tomcat connector configuration to `true`. You find more information in the [Apache Tomcat configuration reference](http://tomcat.apache.org/tomcat-6.0-doc/config/ajp.html) (<http://tomcat.apache.org/tomcat-6.0-doc/config/ajp.html>) .

5. Configuring the Publication for Proxying

When you use a proxy, Lenya has to convert all internal links accordingly. Therefore you have to tell the publication about the proxy configuration. Open the file

`$PUBLICATION_HOME/config/publication.xml` and uncomment and modify the `<proxy/>` elements:

```
<proxies>
  <proxy area="authoring" ssl="true" url="https://cms.example.com/authoring"/>
  <proxy area="authoring" ssl="false" url="http://cms.example.com/authoring"/>
  <proxy area="trash" ssl="true" url="https://cms.example.com/trash"/>
  <proxy area="trash" ssl="false" url="http://cms.example.com/trash"/>
  <proxy area="archive" ssl="true" url="https://cms.example.com/archive"/>
  <proxy area="archive" ssl="false" url="http://cms.example.com/archive"/>
  <proxy area="live" ssl="true" url="https://www.example.com"/>
  <proxy area="live" ssl="false" url="http://www.example.com"/>
</proxies>
```

6. Configuring the Global Proxies

The application-wide (publication independent) proxies are configured in `WEB-INF/cocoon.xconf`. Look for the declaration of the `GlobalProxies` service and update this entry:

```
<component logger="lenya.proxy"
  role="org.apache.lenya.cms.linking.GlobalProxies"
  class="org.apache.lenya.cms.linking.impl.GlobalProxiesImpl">
  <proxy ssl="false" url="http://cms.host.com"/>
  <proxy ssl="true" url="https://cms.host.com"/>
</component>
```

7. Testing the Settings

After re-deploying the publication and restarting your servlet container, you should be able to access the authoring environment of the default publication at the URL <http://cms.example.com/>.