

# Alfresco

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	Alfresco is a <b>commercial grade</b> document management software. Setup in 10 minutes. Keywords: manage your documents via, web, openoffice, microsoft office, ftp, webdav, Alfresco	

# 1 Install

## 1.1 Java

- Install Java. We will need it for Tomcat server.

```
apt-get update
apt-get install sun-java6-jdk
```

## 1.2 Imagemagick

- Imagemagick is a image converter

```
apt-get install imagemagick
```

## 1.3 xvfb

- This program will allow openoffice to run in a command line under X11

```
apt-get install xvfb xfonts-base
```

- Make sure you can start xvfb by typing

```
Xvfb :1 -screen 0 1024x768x24 -fbdir /usr/src &
or
Xvfb :1 -screen 0 800x600x16 -fbdir /usr/src &
```

## 1.4 OpenOffice

- Openoffice is used to convert to and from various file formats

```
apt-get install openoffice.org
```

- After installing [OpenOffice](#) you should try to run Openoffice

```
soffice "-accept=socket,host=localhost,port=8100;urp; ←
StarOffice.ServiceManager" -nofirststartwizard -nologo - ←
headless -display:1 &
```

- The first time openoffice runs it asks for registration. If an error occurs try [disable the manual registration of OpenOffice](#).

## 1.5 Alfresco

- Download Alfresco Labs 3 Stable (alfresco-labs-tomcat-3Stable.tar.gz)
- [http://wiki.alfresco.com/wiki/Labs\\_3\\_Final\\_download\\_files](http://wiki.alfresco.com/wiki/Labs_3_Final_download_files)
- untar it

```
tar -xzvf alfresco-labs-tomcat-3Stable.tar.gz
```

- And put it in **/opt/alfresco**. When everything is working you can move it to a folder of your choice and double check it works in the new folder.

```
mkdir /opt/alfresco  
cd /opt/alfresco
```

## 1.6 mysql

\* You should have mysql installed. If not install it

```
apt-get install mysql-server mysql-admin
```

## 2 Start Alfresco

- Set #JAVA\_HOME variable so alfresco knows where java is.

```
export JAVA_HOME=/usr/lib/jvm/java-6-sun
```

- In the folder you have unpacked it run alfresco.sh

```
./alfresco.sh start
```

- You should see:

```
Using CATALINA_BASE:  /home/lucas/tmp/alfresco/tomcat  
Using CATALINA_HOME:  /home/lucas/tmp/alfresco/tomcat  
Using CATALINA_TMPDIR: /home/lucas/tmp/alfresco/tomcat/temp  
Using JRE_HOME:       /usr/lib/jvm/java-6-sun
```

- Watch the logs to see if everything is going ok. You should see a spike in cpu usage for less then a minute.

```
tail -f ./alfresco.log
```

- Open your web browser and check: <http://localhost:8080/alfresco>

## 2.1 Alfresco Is ready for You

- You alfresco should be working.
- You can login with **username: admin, password: admin**
- We are done if you just wanted to check it out. If you want to continue, we will setup mysql, and get ready for production like setup.

attachment:Alfresco\_on\_debian.png

## 2.2 Stop Alfresco

- To shut down the service do. We need to configure few more things so please shut down for now.

```
./alfresco.sh stop
```

## 2.3 Setup Mysql

- In the same alfresco folder you should see the following:

```
ls extras/databases/mysql/  
db_remove.sql  db_setup.sql  libmysqldb.dll  libmysqldb.so
```

- Then run the setupfile from alfresco. This will create user alfresco and give it necessary permissions.

```
mysql --user root -p < extras/databases/mysql/db_setup.sql
```

- Now go back to main alfresco folder and change the following configuration.

```
vi tomcat/shared/classes/alfresco/extension/custom-repository ↔  
.properties
```

- Edit custom-repository.properties where you need to comment out the lines relating to HSQL/Derby and uncomment the MySQL ones.

```
# Sample database connection properties  
#  
db.username=alfresco  
db.password=alfresco  
db.pool.initial=10  
db.pool.max=100
```

```
and
db.driver=org.gjt.mm.mysql.Driver
db.url=jdbc:mysql://localhost/alfresco
```

- Change these setting to point to full path **/opt/alfresco/alf\_data**

```
'./alf_data'. 'dir.root'
```

- Change port settings,??

```
avm.rmi.service.port=50501
avmsync.rmi.service.port=50502
attribute.rmi.service.port=50503
authentication.rmi.service.port=50504
repo.rmi.service.port=50505
action.rmi.service.port=50506
```

- Also, edit custom-hibernate-dialect.properties and uncomment mysql lines.

```
vi tomcat/shared/classes/alfresco/extension/custom-hibernate- ↔
dialect.properties
```

You also need to download [mysql connector <http://dev.mysql.com/downloads-connector/j/5.0.html>] and place it in \${TOMCAT\_HOME}/lib/

## 2.4 setup imagemagick

- Change the paths for imagemagick, and pdf2swf in alfresco conf files.

```
vi tomcat/webapps/alfresco/WEB-INF/classes/alfresco/ ↔
repository.properties
```

- Replace the corresponding lines with the following lines at the end of file:

```
img.root=/usr
swf.exe=/usr/local/bin/pdf2swf
```

## 2.5 setup samba

- Modify the configuration for your samba settings: hostname, the domain and the broadcast address.

```
vi Alfresco/tomcat/webapps/alfresco/WEB-INF/classes/alfresco/ ↵  
file-servers.properties
```

## 2.6 setup init script

- see [http://wiki.alfresco.com/wiki/Installing\\_Labs\\_3\\_Stable\\_on\\_Debian\\_Etch](http://wiki.alfresco.com/wiki/Installing_Labs_3_Stable_on_Debian_Etch)

# 3 Errors

## 3.1 The store 'avm://sitestore' has a duplicate root node entry

- If you get this error:

```
The store 'avm://sitestore' has a duplicate root node entry
```

- Fix is to:

```
Edit /alfresco_root/tomcat/shared/classes/alfresco/extension/ ↵  
customer-repository.properties file
```

- Make sure dir.root points to absolute path, and that index recovery is set to auto.

```
dir.root=/opt/alfresco/alf_data  
index.recovery.mode=AUTO
```

- Delete alf\_data/lucene-indexes folders

## 3.2 Port already in use: 50501

- If you experienced problem like this:

```
09:19:22,266 ERROR [web.context.ContextLoader] Context ↵  
initialization failed  
org.springframework.beans.factory.BeanCreationException: ↵  
Error creating bean with name 'org.springframework. ↵  
remoting.rmi.RmiServiceExporter' defined in class path ↵  
resource [alfresco/emailserver/email-service-context.xml ↵  
]: Invocation of init method failed; nested exception is ↵  
java.rmi.server.ExportException: Port already in use: ↵  
50500; nested exception is:
```

- It seems Tomcat has some of the libraries that are also included in the alfresco web app. The solution to a problem is to remove the libraries. The two libraries "jsp-2.0.jar" and "commons-el.jar" should be removed. On my installation I only had one of them.
- Lets move the library to a tmp folder in case we need it later.

```
mv ./tomcat/webapps/alfresco/WEB-INF/lib/commons-el.jar /tmp/
```

- Start alfresco and it should run now.

## 4 Alfresco Setup

- To start getting a picture of what alfresco does and how its treats its files see [nodeservice](#)

### Definitions

1. Rules: "Rules are evaluated when certain events happen within the system. Typically, the events are inbound (content arrives into a space) or outbound (content leaves a space)." All the rules are evaluated, all conditions are met, and are acted on. For each event you have a condition (Items of a specified type or sub-type, filename), and action (Check in content, execute script, Send an email to specified users).

### Alfresco important links

1. Main site: <http://localhost:8080/alfresco>
2. Alfresco Share: <http://localhost:8080/share>

### 4.1 Add Share Drive

- We will go over adding a share drive with alfresco. [File System Configuration](#)
- The configuration file that handles the file system is the webapps file. If you want to customize anything based on you requirements look at the file in shared folder.

```
vi tomcat/webapps/alfresco/WEB-INF/classes/alfresco/file- ↵
  servers.xml
and/or
vi tomcat/shared/classes/alfresco/extension/file-servers- ↵
  custom.xml
```

## **4.2 Document Management**

## **4.3 Image Management**

## **5 References**

- <http://video.google.com/videoplay?docid=8415940024750752991&ei=XaaUSa2FHIP6-QGjqOzECA&q=Alfresco+debian+screenshots&hl=en>
- [http://wiki.alfresco.com/wiki/Installing\\_Labs\\_3\\_Stable\\_on\\_Debian\\_Etch](http://wiki.alfresco.com/wiki/Installing_Labs_3_Stable_on_Debian_Etch)
- [http://wiki.alfresco.com/wiki/Debian\\_Installation](http://wiki.alfresco.com/wiki/Debian_Installation)
- <http://lorenzod8n.wordpress.com/2008/02/26/setting-up-alfresco-on-debian-tomcat-bundle/>
- <http://www.slideshare.net/JM.Pascal/alfresco-in-few-points-nodeservice-tutorial>
- [http://wiki.alfresco.com/w/images/0/0b/Install\\_Configure\\_Alfresco\\_Lab3Stable.pdf](http://wiki.alfresco.com/w/images/0/0b/Install_Configure_Alfresco_Lab3Stable.pdf)