

setting up an Alfresco cluster

Here we have two alfresco server.

1. 192.168.1.188
2. 192.168.1.187

A) Configuration For server 192.168.1.188.

1. we need to download alfresco setup.

```
# cd /opt/
```

```
# wget https://sourceforge.net/projects/alfresco/files/Alfresco%20201512-EA%20Community/alfresco-community-installer-201512-EA-linux-x64.bin/download
```

after that you will see file with name **download**.

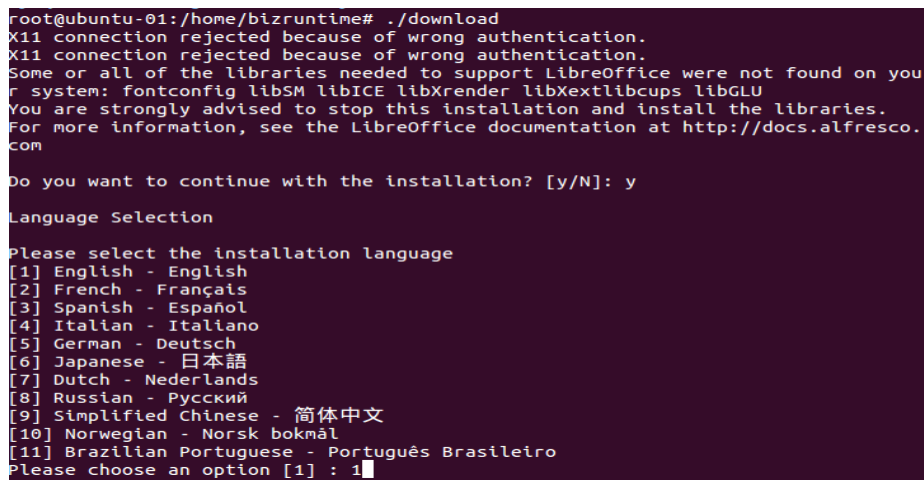
Now change permission with following.

```
# chmod 777 download
```

2. Now run setup with the following command.

```
# ./download
```

Follow the installation steps as shown in the following figure.



```
root@ubuntu-01:/home/bizruntime# ./download
X11 connection rejected because of wrong authentication.
X11 connection rejected because of wrong authentication.
Some or all of the libraries needed to support LibreOffice were not found on your system: fontconfig libSM libICE libXrender libXextlibcups libGLU
You are strongly advised to stop this installation and install the libraries.
For more information, see the LibreOffice documentation at http://docs.alfresco.com

Do you want to continue with the installation? [y/N]: y

Language Selection

Please select the installation language
[1] English - English
[2] French - Français
[3] Spanish - Español
[4] Italian - Italiano
[5] German - Deutsch
[6] Japanese - 日本語
[7] Dutch - Nederlands
[8] Russian - Русский
[9] Simplified Chinese - 简体中文
[10] Norwegian - Norsk bokmål
[11] Brazilian Portuguese - Português Brasileiro
Please choose an option [1] : 1
```

Fig 1

```
Welcome to the Alfresco Community Setup Wizard.

-----
Installation Type

[1] Easy - Install using the default configuration.
[2] Advanced - Configure server ports and service properties.: Choose optional components to install.
Please choose an option [1] : 2
```

Fig 2

```
-----
Select the components you want to install; clear the components you do not want
to install. Click Next when you are ready to continue.

Java [Y/n] :y
PostgreSQL [Y/n] :n
LibreOffice [Y/n] :y
Alfresco Community : Y (Cannot be edited)
Solr1 [y/N] : y
Solr4 [Y/n] :y
SharePoint Imitation [Y/n] :y
Web Quick Start [y/N] : y
Google Docs Integration [Y/n] :y
Is the selection above correct? [Y/n]: y
```

Fig 3

```
Installation Folder

Choose a folder to install Alfresco Community.
Select a folder: [/opt/alfresco-community]: /opt/test

-----
Database Configuration

JDBC URL: [jdbc:postgresql://localhost/alfresco]:
JDBC Driver: [org.postgresql.Driver]:
Database name: [alfresco]:
Username: []:
Password: :
Verify: :
-----
Tomcat Port Configuration

Enter your Tomcat configuration parameters.
Web Server Domain: [127.0.0.1]:
Tomcat Server Port: [8080]: 8082
Tomcat Shutdown Port: [8005]: 8007
Tomcat SSL Port: [8443]:
```

Fig 4

Continue with installation.....!

3. In this setup we are going to use mysql database. In this case our mysql database will be Running on 192.168.1.188. Here we are using common database for both alfresco server. We can use RDS database also.

So, we need to install mysql database server.

```
# sudo apt-get install mysql-server
```

4. Here our database is ready. Check the configuration of mysql whether it is accessible by remotely.

5. Now create database and grant permission.

```
mysql> CREATE DATABASE alfresco_cluster DEFAULT CHARACTER SET utf8 COLLATE  
utf8_unicode_ci;
```

```
mysql> GRANT ALL PRIVILEGES ON alfresco_cluster.* TO alfresco_cluster@'%' IDENTIFIED BY  
'alfresco_cluster';
```

```
mysql> GRANT SELECT, LOCK TABLES ON alfresco_cluster.* TO alfresco_cluster@'%'  
IDENTIFIED BY 'alfresco_cluster';
```

```
mysql > FLUSH PRIVILEGES;
```

6. Now, we need Mysql connector.

```
# cd /opt/
```

```
# wget https://dev.mysql.com/get/Downloads/Connector-J/mysql-connector-java-5.1.38.tar.gz
```

```
# tar -xvf mysql-connector-java-5.1.38.tar.gz
```

```
# cd mysql-connector-java-5.1.38
```

Now, copy .jar in /opt/alfresco-community/tomcat/lib

```
# cp mysql-connector-java-5.1.38-bin.jar /opt/alfresco-community/tomcat/lib
```

7. Now Configuration of alfresco cluster.

```
# nano /opt/alfresco-community/tomcat/shared/classes/alfresco-global.properties
```

Create root directory /tmp/alfresco

```
-----Change Configuration According to Following-----
```

```
#####  
## Common Alfresco Properties #  
#####
```

```
dir.root=/tmp/alfresco/alf_data
```

```
alfresco.context=alfresco  
alfresco.host=127.0.0.1  
alfresco.port=8081  
alfresco.protocol=http
```

```
share.context=share  
share.host=127.0.0.1  
share.port=8081  
share.protocol=http
```

```
### database connection properties ###  
db.driver=com.mysql.jdbc.Driver  
#db.driver=org.gjt.mm.mysql.Driver  
db.username=alfresco_cluster  
db.password=alfresco_cluster  
db.name=alfresco_cluster  
db.host=192.168.1.188  
db.port=3306  
db.url=jdbc:mysql://${db.host}:${db.port}/${db.name}?  
useUnicode=yes&characterEncoding=UTF-8
```

```
# Note: your database must also be able to accept at least this many connections. Please see your  
database documentation for instructions on $
```

```
db.pool.max=275  
db.pool.validate.query=SELECT 1  
user.name.caseSensitive=true  
# The server mode. Set value here  
# UNKNOWN | TEST | BACKUP | PRODUCTION  
system.serverMode=UNKNOWN
```

```
### RMI registry port for JMX ###  
alfresco.rmi.services.port=50500
```

External executable locations

ooo.exe=/opt/alfresco-community/libreoffice/program/soffice.bin

ooo.enabled=true

ooo.port=8100

img.root=/opt/alfresco-community/common

img.dyn=\${img.root}/lib

img.exe=\${img.root}/bin/convert

jodconverter.enabled=false

jodconverter.officeHome=/opt/alfresco-community/libreoffice

jodconverter.portNumbers=8100

Initial admin password

alfresco_user_store.adminpassword=4100799eed85b5f14f36c283fb0f019c

E-mail site invitation setting

notification.email.siteinvite=false

License location

dir.license.external=/opt/alfresco-community

Solr indexing

index.subsystem.name=solr4

dir.keystore=/opt/alfresco-community/alf_data/keystore

solr.host=localhost

solr.port.ssl=8443

Allow extended ResultSet processing

security.anyDenyDenies=false

Virtual Folders Config Properties

virtual.folders.enabled=false

#####

dir.indexes=/opt/alfresco-community/alf_data/lucene-indexes

dir.indexes.backup=/opt/alfresco-community/alf_data/backup-lucene-indexes

dir.indexes.lock=/opt/alfresco-community/alf_data/locks

hibernate.dialect=org.hibernate.dialect.MySQLInnoDBDialect

#####

alfresco.cluster.name=home-test-cluster

alfresco.tcp.initial_hosts=192.168.1.188[7800],192.168.1.187[7800]

alfresco.jgroups.defaultProtocol=TCP

-----End Of File -----

8. Now, we can start our First Alfresco server.

```
# cd /opt/alfresco-community/tomcat/bin
```

```
# ./catalina.sh start
```

check whether port 8080 is running or not by using following command.

```
# netstat -antp | grep LISTEN
```

9. Here our First server is ready.

As per we said we are using common database. Here also we need to share common root directory.

So, In our case we will share common root directory for both server.

On server 192.168.1.188 our root directory is **/tmp/alfresco**

Give proper permission to alfresco directory `chmod -R 777 /tmp/alfresco`

Now we will share this directory with another server using NFS.

Install NFS server

```
# sudo apt-get install nfs-server
```

Add the following line.

```
# nano /etc/exports
```

```
/tmp/alfresco 192.168.1.187(rw,sync)
```

```
# /etc/init.d/nfs-kernel-server restart
```

B) Configuration For server 192.168.1.187.

1. In this First we need to mount NFS Share

Install nfs client

```
# sudo apt-get install nfs-common
```

Create directory /tmp/alfresco

```
# mkdir /tmp/alfresco
```

```
# mount -t nfs 192.168.1.188:/tmp/alfresco /tmp/alfresco
```

2. Now follow the same steps as above **(steps 1,2,6,7,8) leave reamaning steps.**

Note - Here Both servers are Running. Check with uploading files. On both server same file will be reflect.