

setting up an Alfresco cluster

Need to know

alfresco clustering

- 1) make sure that nfs share point reachable
- 2) run docker-container with --privileged for mounting nfs
- 3) change root directory option in option-file which used in auto-installation of alfresco (prifix option in option-file)
- 4) change the share point and mount path in dockerfile
- 5) give same database path & all db info in all alfresco server (in option-file)

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 permition 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.