Installing Alfresco components one by one

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Alfresco components (201702)

Alfresco

	File	Description
	alfresco-community-distribution-201702.zip@ (md5: 0fe1cf64f2d95bbc4d89c780b636580f)	Use this download for manual install. Contains Web Archive (WAR) bundles for the Alfresco repository and Share UI. This file also contains Module Management tool, JLAN native libraries for windows and Solr4 integration
	ailiesco-community-file-transfer-receiver-5.2.e.zip	Alifesco File Transfer Receiver
	(md5: 25246f73444ceeb5584389fd7ea22b79)	
	aliresco-wentgs-5.2.c.alp	Allicosco Wob Quick Otait - Tolor to [Allicosco Wob Quick Otait documentation 5].
	(md5: d83b40b31656ad4acd11c4bfb6315298)	
	-15	AV Web Edited to AV
	(md5: cc7a3a1815ab96d0c77f9add8c1fe8ff)	Autoco Trop Editor - Total to Princesco Trop Editor documentation - J.
	-15	Alfanon Calabata in a san a sa
	(md5: 30d6d888404674cb99bd6c57ad55e178)	Autoboo Collet Integration Version 0.2.0

Solr 6 Integration

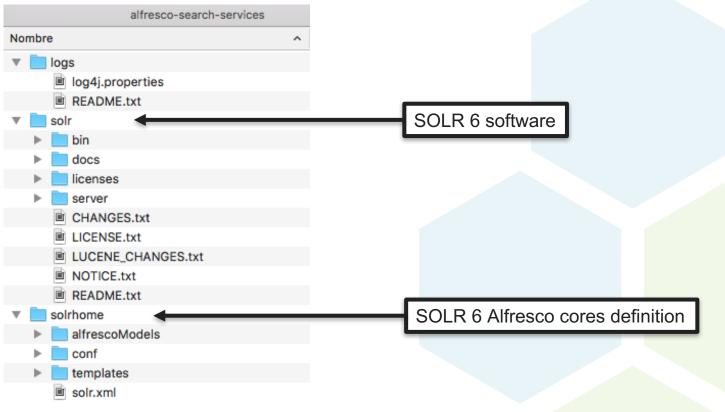
File	Description
alfresco-search-services-1.0.0.zip	Alfresco Solr6 Integration version 1.0.0
(md5: ca9239b519a9bdaf734dbe530ed6a6e5)	

https://community.alfresco.com/docs/DOC-6641-alfresco-community-edition-file-list-201702

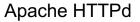
Alfresco Community Distribution



Alfresco Search Services (aka SOLR 6)



Anything else?





Sco Supported Platforms



Apache Tomcat

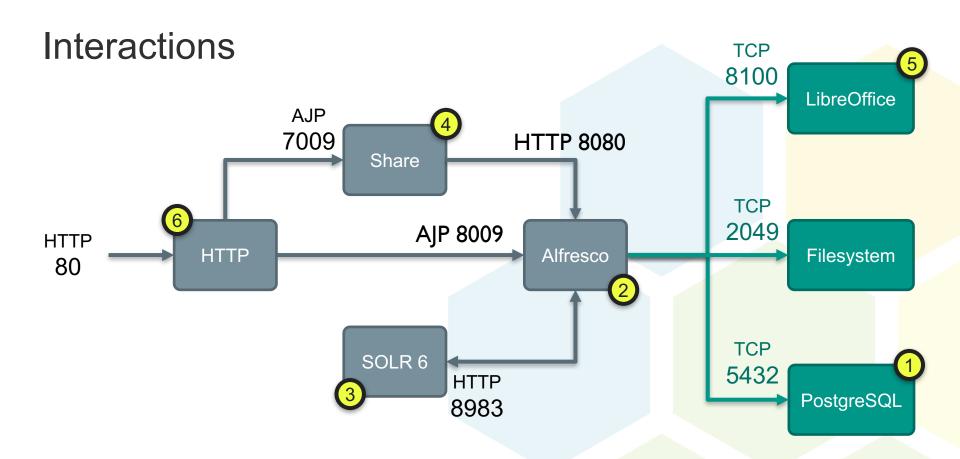












Resources - Server map



HTTP	0,5	GB
Share	2	GB
Alfresco	3	GB
SOLR	3	GB
LibreOffice	1	GB
PostgreSQL	2	GB
OS	0,5	GB

ecm.local share.local alfresco.local solr.local libreoffice.local postgresql.local



Installing

30 minutes count down

Base OS image

```
$ cat /etc/redhat-release
CentOS Linux release 7.2.1511 (Core)
$ yum list installed
ImageMagick.x86 64
                               6.7.8.9-15.el7 2
apr.x86 64
                               1.4.8-3.el7
cairo.x86 64
                               1.14.2-1.el7
cups-libs.x86 64
                               1:1.6.3-22.el7
fontconfig.x86 64
                               2.10.95-7.el7
ghostscript.x86 64
                               9.07-18.el7
httpd.x86 64
                               2.4.6 - 40.e17.centos.4
postgresq194.x86 64
                               9.4.9-1PGDG.rhel7
```

https://www.dropbox.com/s/mm43kmzg4jtrueb/alfresco-centos.ova?dl=0 root / keensoft

Downloaded software

```
# ls -lh
-rw-r--r-. 1 root root 315M alfresco-community-distribution-201702.zip
-rw-r--r-. 1 root root 127M alfresco-search-services-1.0.0.zip
-rw-r--r-. 1 root root 8,6M apache-tomcat-7.0.59.tar.gz
-rw-r--r-. 1 root root 173M jdk-8u101-linux-x64.tar.gz
-rw-r--r-. 1 root root 263M LibreOffice_5.3.2_Linux_x86-64_rpm.tar.gz
```



Faking server names

```
$ vi /etc/hosts
127.0.0.1 ecm.local
127.0.0.1 alfresco.local
127.0.0.1 share.local
127.0.0.1 solr.local
127.0.0.1 libreoffice.local
127.0.0.1 postgresql.local
```



Install Oracle JDK

```
$ cd /opt
$ tar xvf /root/jdk-8u101-linux-x64.tar.gz

$ alternatives --install /usr/bin/java java /opt/jdk1.8.0_101/bin/java 2

$ java -version
java version "1.8.0_101"
Java(TM) SE Runtime Environment (build 1.8.0_101-b13)
Java HotSpot(TM) 64-Bit Server VM (build 25.101-b13, mixed mode)
```



```
$ /usr/pgsql-9.4/bin/postgresql94-setup initdb
$ systemctl enable postgresql-9.4
$ systemctl start postgresql-9.4
$ su - postgres
$ psql
CREATE DATABASE alfresco
WITH OWNER = postgres
ENCODING = 'UTF8'
TABLESPACE = pg default
TEMPLATE template0;
```



```
CREATE ROLE alfresco LOGIN
PASSWORD 'alfresco'
NOSUPERUSER INHERIT NOCREATEDB NOCREATEROLE;
GRANT ALL ON DATABASE alfresco TO public;
GRANT ALL ON DATABASE alfresco TO postgres;
GRANT ALL ON DATABASE alfresco TO alfresco;
\q
```



```
$ vi /var/lib/pgsql/9.4/data/pg hba.conf
                      all 127.0.0.1/32
host
       all
                                                             trust
host
    all
                      all
                                      ::1/128
                                                             trust
$ vi /var/lib/pgsql/9.4/data/postgresql.conf
maintenance work mem = 192MB
checkpoint completion target = 0.7
effective cache size = 2048MB
work mem = 22MB
wal buffers = 4MB
checkpoint segments = 8
shared buffers = 768MB
```



```
$ exit
$ systemctl restart postgresql-9.4
$ cat /etc/hosts
127.0.0.1 postgresql.local
```



```
$ mkdir /opt/alfresco
 cd /opt/alfresco
$ tar xvf /root/apache-tomcat-7.0.59.tar.gz
 mv apache-tomcat-7.0.59 tomcat
 cd tomcat/bin/
$ tar xzvf tomcat-native.tar.gz
$ cd tomcat-native-1.1.32-src/jni/native/
 ./configure --with-apr=/usr/bin/apr-1-config \
--with-java-home=/opt/jdk1.8.0 101
$ make; make install
Libraries have been installed in:
   /usr/local/apr/lib
```



```
$ vi /opt/alfresco/tomcat/bin/setenv.sh
# Load Tomcat Native Library
LD LIBRARY PATH="/usr/local/apr/lib:$LD LIBRARY PATH"
export LD LIBRARY PATH
$ /opt/alfresco/tomcat/bin/catalina.sh start
$ tail -f -n 100 /opt/alfresco/tomcat/logs/catalina.out
INFO: Loaded APR based Apache Tomcat Native library 1.1.32 using APR version
1.4.8.
 /opt/alfresco/tomcat/bin/catalina.sh stop
```



```
$ unzip alfresco-community-distribution-201702.zip
 cd alfresco-community-distribution-201702
$ mkdir /opt/alfresco/alf data
$ cp -r amps /opt/alfresco
$ mkdir /opt/alfresco/bin
 cp bin/alfresco-mmt.jar /opt/alfresco/bin
 cp bin/apply amps.sh /opt/alfresco/bin
$ cp bin/clean tomcat.sh /opt/alfresco/bin
$ mkdir -p /opt/alfresco/modules/platform
```



```
$ cd web-server
$ cp -r * /opt/alfresco/tomcat
 rm -rf /opt/alfresco/tomcat/webapps/share.war
 rm -rf /opt/alfresco/tomcat/webapps/solr4.war
$ rm -rf /opt/alfresco/tomcat/conf/Catalina/localhost/share.xml
 rm -rf /opt/alfresco/tomcat/shared/classes/alfresco/web-extension
$ mkdir /opt/alfresco/tomcat/shared/lib
$ vi /opt/alfresco/tomcat/conf/catalina.properties
shared.loader=${catalina.base}/shared/classes,${catalina.base}/shared/lib/*.
jar
```



```
$ chmod +x /opt/alfresco/tomcat/bin/setenv.sh
$ vi /opt/alfresco/tomcat/bin/setenv.sh
JAVA_OPTS="$JAVA_OPTS -Dalfresco.home=/opt/alfresco"
JAVA_OPTS="$JAVA_OPTS -Dcom.sun.management.jmxremote"
JAVA_OPTS="$JAVA_OPTS -XX:ReservedCodeCacheSize=128m"
JAVA_OPTS="$JAVA_OPTS -Xms512M -Xmx3072M"
export JAVA_OPTS
```



```
$ vi /opt/alfresco/tomcat/shared/classes/alfresco-global.properties
dir.root=/opt/alfresco/alf_data
db.driver=org.postgresql.Driver
db.username=alfresco
db.password=alfresco
db.url=jdbc:postgresql://postgresql.local:5432/alfresco
```



```
$ vi /opt/alfresco/tomcat/shared/classes/alfresco-global.properties
alfresco.context=alfresco
alfresco.host=alfresco.local
alfresco.port=8080
alfresco.protocol=http
cifs.enabled=false
ftp.enabled=false
imap.server.enabled=false
alfresco.rmi.services.host=0.0.0.0
monitor.rmi.service.port=0
index.subsystem.name=noindex
```



```
$ cat /etc/hosts
127.0.0.1 alfresco.local
$ ls /opt/alfresco/amps
alfresco-share-services.amp
$ chmod +x /opt/alfresco/bin/apply amps.sh
$ /opt/alfresco/bin/apply amps.sh
03210000 Invalid directory '/opt/alfresco/amps share'
```

Alfresco

```
$ /opt/alfresco/tomcat/bin/catalina.sh start
$ tail -f /opt/alfresco/tomcat/logs/catalina.out
abr 21, 2017 4:42:46 PM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["http-apr-8080"]
abr 21, 2017 4:42:46 PM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["ajp-apr-8009"]
abr 21, 2017 4:42:46 PM org.apache.catalina.startup.Catalina start
INFO: Server startup in 104755 ms
```

SOLR 6



3. Install **SOLR 6** webapp

```
$ mkdir /opt/solr6
$ cd /opt/solr6
$ unzip /root/alfresco-search-services-1.0.0.zip
$ cd alfresco-search-services
 mv * ..
$ cd ..
$ rm -rf alfresco-search-services/
$ vi /opt/solr6/solrhome/templates/rerank/conf/solrcore.properties
alfresco.host=alfresco.local
```



3. Install **SOLR 6** webapp

```
$ /opt/solr6/solr/bin/solr start -force -m 3G \
-a -Dcreate.alfresco.defaults=alfresco,archive
Started Solr server on port 8983 (pid=2498).
Happy searching!
$ tail -f /opt/solr6/logs/solr.log
<u>2017-04-21 17:01:47.272 INFO (main) [ ] o.e.j.s.ServerConnector Started</u>
ServerConnector@624ea235{HTTP/1.1,[http/1.1]}{0.0.0.0:8983}
2017-04-21 17:01:47.272 INFO (main) [ ] o.e.j.s.Server Started @7126ms
```



3. Install **SOLR 6** webapp

```
$ cat /etc/hosts
127.0.0.1 solr.local
$ vi /opt/alfresco/tomcat/shared/classes/alfresco-global.properties
index.subsystem.name=solr6
solr.host=solr.local
solr.port=8983
solr.port.ssl=8984
solr.secureComms=none
$ /opt/alfresco/tomcat/bin/catalina.sh stop
$ /opt/alfresco/tomcat/bin/catalina.sh start
```



```
$ mkdir /opt/share
$ cd /opt/share
$ tar xvf /root/apache-tomcat-7.0.59.tar.gz
$ mv apache-tomcat-7.0.59 tomcat
$ vi /opt/share/tomcat/bin/setenv.sh
# Load Tomcat Native Library
LD_LIBRARY_PATH="/usr/local/apr/lib:$LD_LIBRARY_PATH"
export LD_LIBRARY_PATH
```



```
$ vi /opt/share/tomcat/conf/server.xml
<Server port="7005" shutdown="SHUTDOWN">
    <Connector port="7080" protocol="HTTP/1.1"</pre>
         connectionTimeout="20000" redirectPort="7443" />
    <Connector port="7009" URIEncoding="UTF-8"</pre>
         protocol="AJP/1.3" redirectPort="7443" />
</server>
```

Share

```
$ cd /root/alfresco-community-distribution-201702
$ mkdir /opt/share/amps share
$ mkdir /opt/share/bin
 cp bin/alfresco-mmt.jar /opt/share/bin
 cp bin/apply amps.sh /opt/share/bin
 cp bin/clean tomcat.sh /opt/share/bin
$ mkdir -p /opt/share/modules/share
```

Share

```
$ cd web-server
$ cp -r * /opt/share/tomcat
 rm -rf /opt/share/tomcat/webapps/alfresco.war
 rm -rf /opt/share/tomcat/webapps/solr4.war
$ rm -rf /opt/share/tomcat/conf/Catalina/localhost/alfresco.xml
 rm -rf /opt/share/tomcat/shared/classes/alfresco/extension
$ mkdir /opt/share/tomcat/shared/lib
$ vi /opt/share/tomcat/conf/catalina.properties
shared.loader=${catalina.base}/shared/classes,${catalina.base}/shared/lib/*.
jar
```



```
$ vi /opt/share/tomcat/shared/classes/alfresco/web-extension/share-config-
custom.xml
<config evaluator="string-compare" condition="Remote">
   <endpoint-url>http://alfresco.local:8080/alfresco/s</endpoint-url> [x4]
</config>
$ cat /etc/hosts
127.0.0.1 share.local
```



```
$ touch /opt/share/tomcat/bin/setenv.sh
 chmod +x /opt/share/tomcat/bin/setenv.sh
$ vi /opt/share/tomcat/bin/setenv.sh
LD LIBRARY PATH="/usr/local/apr/lib:$LD LIBRARY PATH"
export LD LIBRARY PATH
JAVA OPTS="$JAVA OPTS -XX:ReservedCodeCacheSize=128m"
JAVA OPTS="$JAVA OPTS -Xms512M -Xmx2048M"
export JAVA OPTS
```



```
$ vi /opt/alfresco/tomcat/shared/classes/alfresco-global.properties
share.context=share
share.host=share.local
share.port=7080
share.protocol=http
imq.root=/usr/share/doc/imagemagick
img.exe=/usr/bin/convert
img.config=${img.root}
img.coders=/usr/lib64/ImageMagick-6.7.8/modules-Q16/coders
img.dyn=/usr/local/lib
img.gslib=/usr/local/lib
  /opt/alfresco/tomcat/bin/catalina.sh stop
  /opt/alfresco/tomcat/bin/catalina.sh start
```

Share

```
$ /opt/share/tomcat/bin/catalina.sh start

$ tail -f /opt/share/tomcat/logs/catalina.out

INFO: Starting ProtocolHandler ["http-apr-7080"]
abr 21, 2017 7:37:02 PM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["ajp-apr-7009"]
abr 21, 2017 7:37:03 PM org.apache.catalina.startup.Catalina start
INFO: Server startup in 38529 ms
```



5. Install **LibreOffice** service

```
$ cd
$ tar zxf LibreOffice 5.3.2 Linux x86-64 rpm.tar.gz
$ yum install -y LibreOffice 5.3.2.2 Linux x86-64 rpm/RPMS/*.rpm
$ vi /opt/libreoffice.sh
/opt/libreoffice5.3/program/soffice.bin "--
accept=socket, host=localhost, port=8100; urp; StarOffice.ServiceManager" "-
env:UserInstallation=file:///opt/alfresco/alf data/oouser" --nologo --
headless --nofirststartwizard --norestore --nodefault &
$ chmod +x /opt/libreoffice.sh
$ /opt/libreoffice.sh
```



5. Install **LibreOffice** service

```
$ cat /etc/hosts
127.0.0.1 libreoffice.local
$ vi /opt/alfresco/tomcat/shared/classes/alfresco-global.properties
ooo.enabled=true
ooo.port=8100
ooo.host=libreoffice.local
 /opt/alfresco/tomcat/bin/catalina.sh stop
$ /opt/alfresco/tomcat/bin/catalina.sh start
```



6. Install **Apache HTTPd**

```
$ cat /etc/httpd/conf.d/alfresco.conf

<VirtualHost *:80>
    ProxyRequests Off
    ProxyPass /alfresco ajp://alfresco.local:8009/alfresco
    ProxyPassReverse /alfresco ajp://alfresco.local:8009/alfresco
    ProxyPass "/share" "ajp://share.local:7009/share"
    ProxyPassReverse "/share" "ajp://share.local:7009/share"
</VirtualHost>
```



6. Install **Apache HTTPd**

```
$ /usr/sbin/setsebool -P httpd can network connect 1
$ systemctl start httpd
$ systemctl enable httpd
$ cat /etc/hosts
127.0.0.1 ecm.local
```



6. Install **Apache HTTPd**

```
$ vi /opt/alfresco/tomcat/shared/classes/alfresco-global.properties
alfresco.host=ecm.local
alfresco.port=80
share.host=ecm.local
share.port=80
  /opt/alfresco/tomcat/bin/catalina.sh stop
 /opt/alfresco/tomcat/bin/catalina.sh start
```

Hands up!





Testing

Repository

http://ecm.local/alfresco

Share

http://ecm.local/share

Libreoffice

Upload a ODT file

SOLR

Search for content (after uploading)

Enhancing our configuration

Apache / NGINX

http://beecon.buzz/talks/?id=20160125025 https://github.com/ecm4u/alfresco-reverse-proxy

SSL using Apache HTTP & Let's Encrypt

www.keensoft.es/en/configuring-alfresco-ssl-by-using-lets-encrypt/

PostgreSQL tuning

http://beecon.buzz/2016/talks/?id=20160125019

Thanks!

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