Deploying Alfresco EA 6.0 using Docker

Docker compose Deployment Overview:
https://github.com/Alfresco/acs-deployment/blob/master/docs/diagrams/docker-compose/docker-compose-components.png

On linux:

1. Pre-requisite

Installation of docker and docker-compose

a) wget https://download.docker.com/linux/centos/7/x86_64/stable/Packages/docker-ce-17.09.1.ce-1.el7.centos.x86_64.rpm
b) sudo yum install ./docker-ce-17.09.1.ce-1.el7.centos.x86_64.rpm

```
Dependencies Resolved

================================================================================================================================
 Package                      Arch              Version                              Repository                                          Size
================================================================================================================================
Installing:
 docker-ce                    x86_64            17.09.1.ce-1.el7.centos              /docker-ce-17.09.1.ce-1.el7.centos.x86_64           76 M
Installing for dependencies:
 container-selinux            noarch            2:2.55-1.el7                         extras                                              34 k

Transaction Summary
================================================================================================================================
Install  1 Package (+1 Dependent package)
```

c) sudo systemctl start docker
d) docker –v
e) sudo systemctl status docker

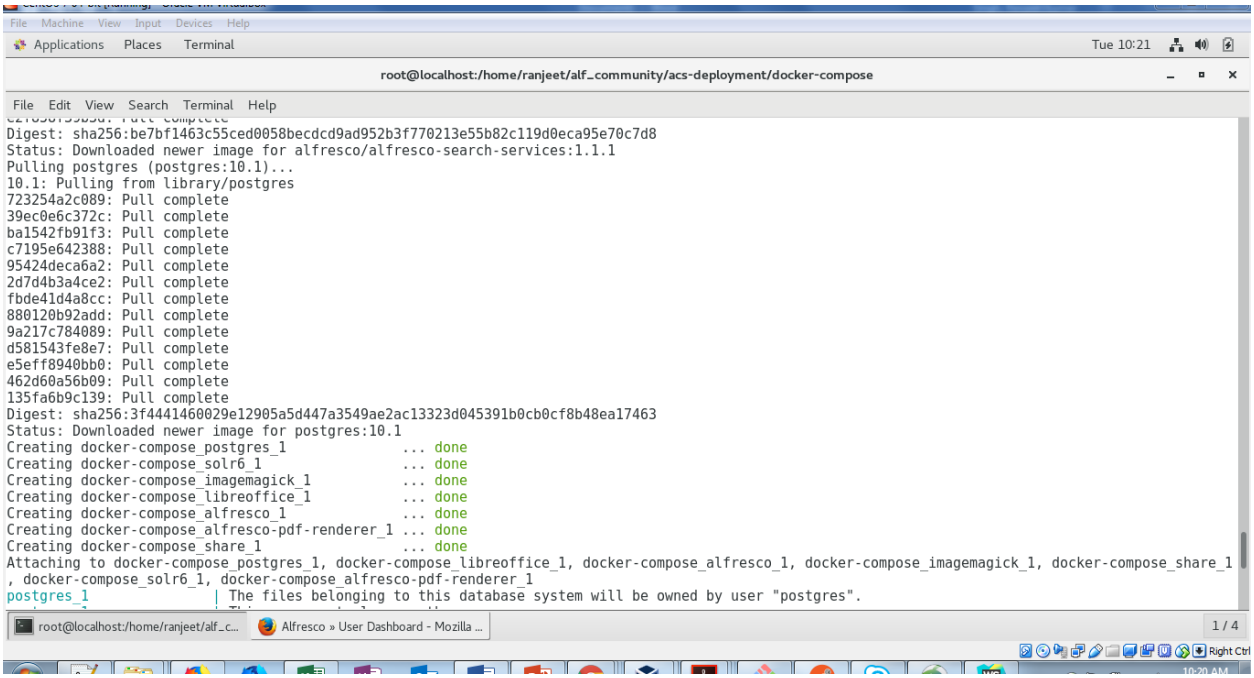
```
[root@localhost alf_community]# docker --version
Docker version 17.09.1-ce, build 19e2cf6
[root@localhost alf_community]# sudo systemctl status docker
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; disabled; vendor preset: disabled)
   Active: active (running) since Mon 2018-05-21 22:19:35 EDT; 4min 18s ago
     Docs: https://docs.docker.com
 Main PID: 6282 (dockerd)
    Tasks: 20
   Memory: 20.3M
   CGroup: /system.slice/docker.service
           ├─6282 /usr/bin/dockerd
           └─6289 docker-containerd -l unix:///var/run/docker/libcontainerd/docker-containerd.sock --metrics-interval=0 --start-timeout 2m --state...

May 21 22:19:33 localhost.localdomain dockerd[6282]: time="2018-05-21T22:19:33.878464905-04:00" level=info msg="libcontainerd: new containe...: 6289"
May 21 22:19:34 localhost.localdomain dockerd[6282]: time="2018-05-21T22:19:34.888310480-04:00" level=warning msg="failed to rename /var/li...nously"
May 21 22:19:35 localhost.localdomain dockerd[6282]: time="2018-05-21T22:19:35.005828907-04:00" level=info msg="Graph migration to content-...econds"
May 21 22:19:35 localhost.localdomain dockerd[6282]: time="2018-05-21T22:19:35.007162732-04:00" level=info msg="Loading containers: start."
May 21 22:19:35 localhost.localdomain dockerd[6282]: time="2018-05-21T22:19:35.254455532-04:00" level=info msg="Default bridge (docker0) is...ddress"
May 21 22:19:35 localhost.localdomain dockerd[6282]: time="2018-05-21T22:19:35.516210606-04:00" level=info msg="Loading containers: done."
May 21 22:19:35 localhost.localdomain dockerd[6282]: time="2018-05-21T22:19:35.554954530-04:00" level=info msg="Docker daemon" commit=19e2c...09.1-ce
May 21 22:19:35 localhost.localdomain dockerd[6282]: time="2018-05-21T22:19:35.555334278-04:00" level=info msg="Daemon has completed initialization"
May 21 22:19:35 localhost.localdomain dockerd[6282]: time="2018-05-21T22:19:35.598809753-04:00" level=info msg="API listen on /var/run/docker.sock"
May 21 22:19:35 localhost.localdomain systemd[1]: Started Docker Application Container Engine.
Hint: Some lines were ellipsized, use -l to show in full.
[root@localhost alf_community]# docker run hello-world

Hello from Docker!
```

f) sudo pip install docker-compose
g) docker-compose –version

2. Deploying the ACS Deployment project
   a) git clone https://github.com/Alfresco/acs-deployment.git
   b) Ports 5432, 8080, 8082, 8083 are configured by default and Can be edit in the docker-compose.yml file.

c) Move to acs-deployment folder and then to docker-compose and run the command:

d) docker-compose up



e) The services can then be accessed using urls:
http://localhost:8080/share to have access to Alfresco Share (login: admin, password: admin).
http://localhost:8082/alfresco for the repository default page.
http://localhost:8083/solr to have access to Solr Administration panel.

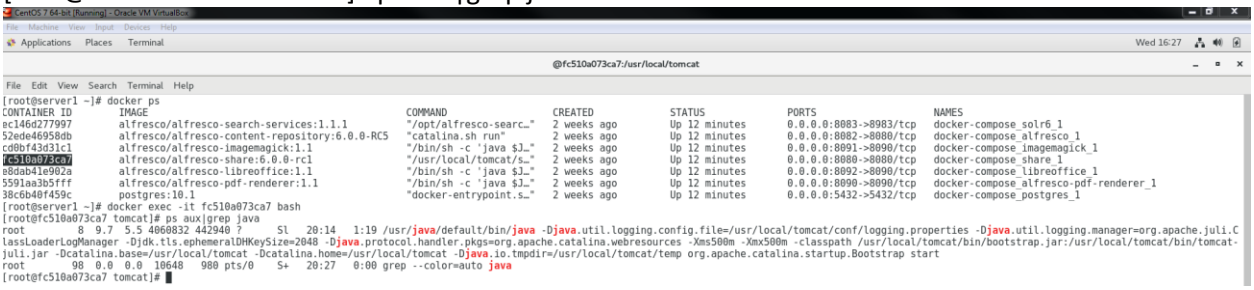
Installation can be inspected under /usr/local/tomcat when server started(As below)

$ docker ps

$ docker exec -it 5591aa3b5fff bash

[root@server1 ~]# docker exec -it fc510a073ca7 bash

[root@fc510a073ca7 tomcat]# ps aux|grep java

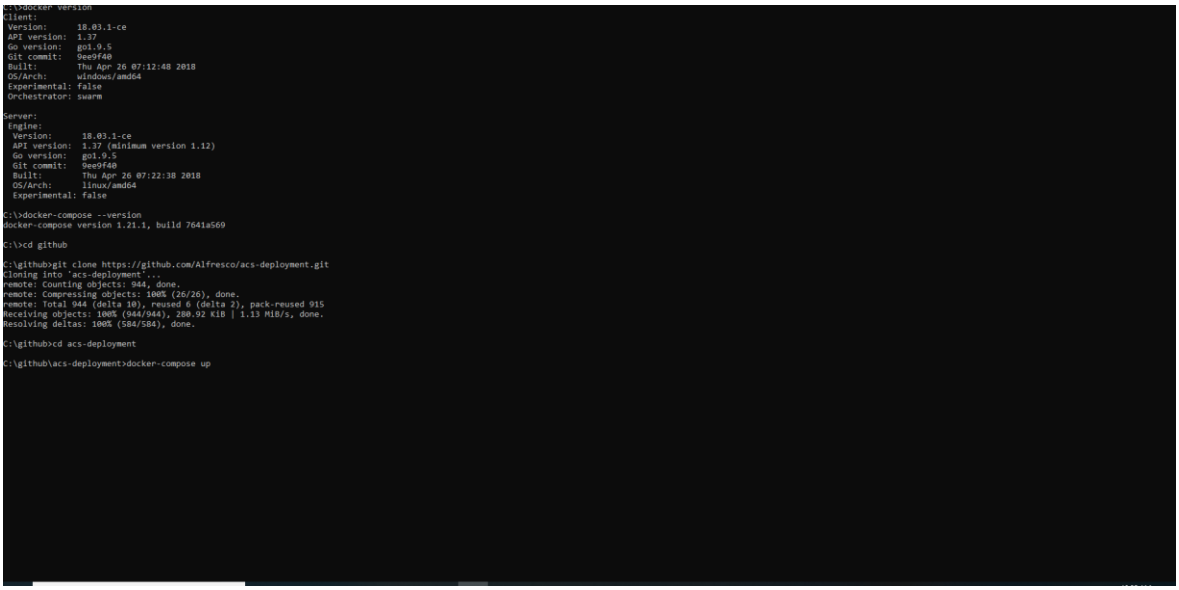


On Windows:

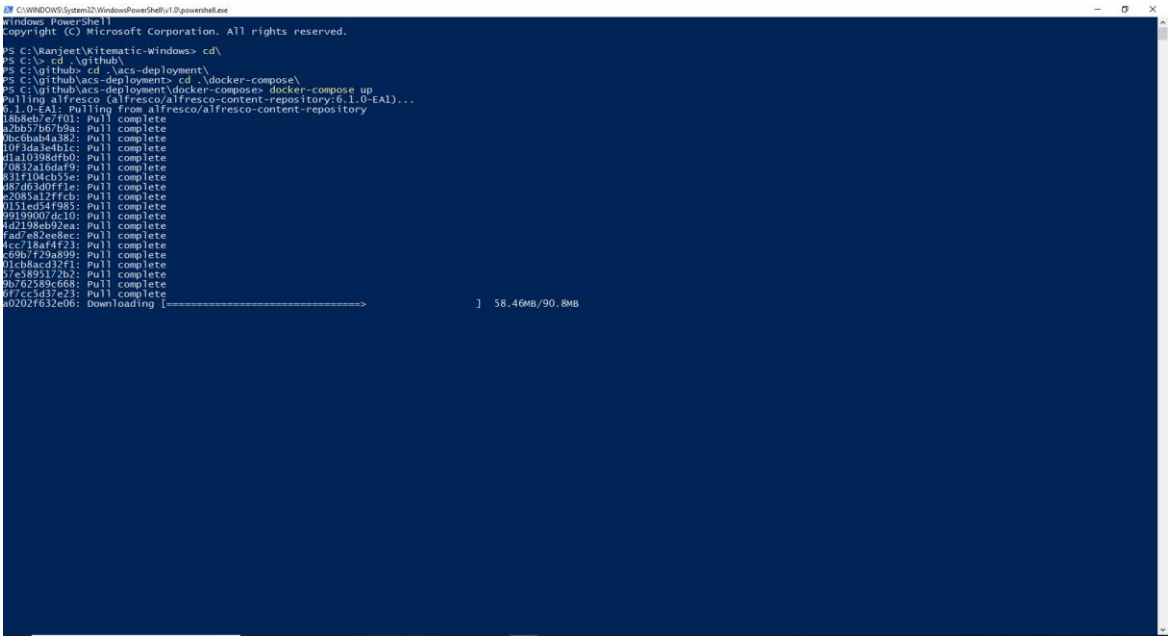
For below have used windows 10: And docker version 18.03.1-CE

The first step is to get the acs_deployment module for alfresco 6.0 from the path
git clone `https://github.com/Alfresco/acs-deployment.git`

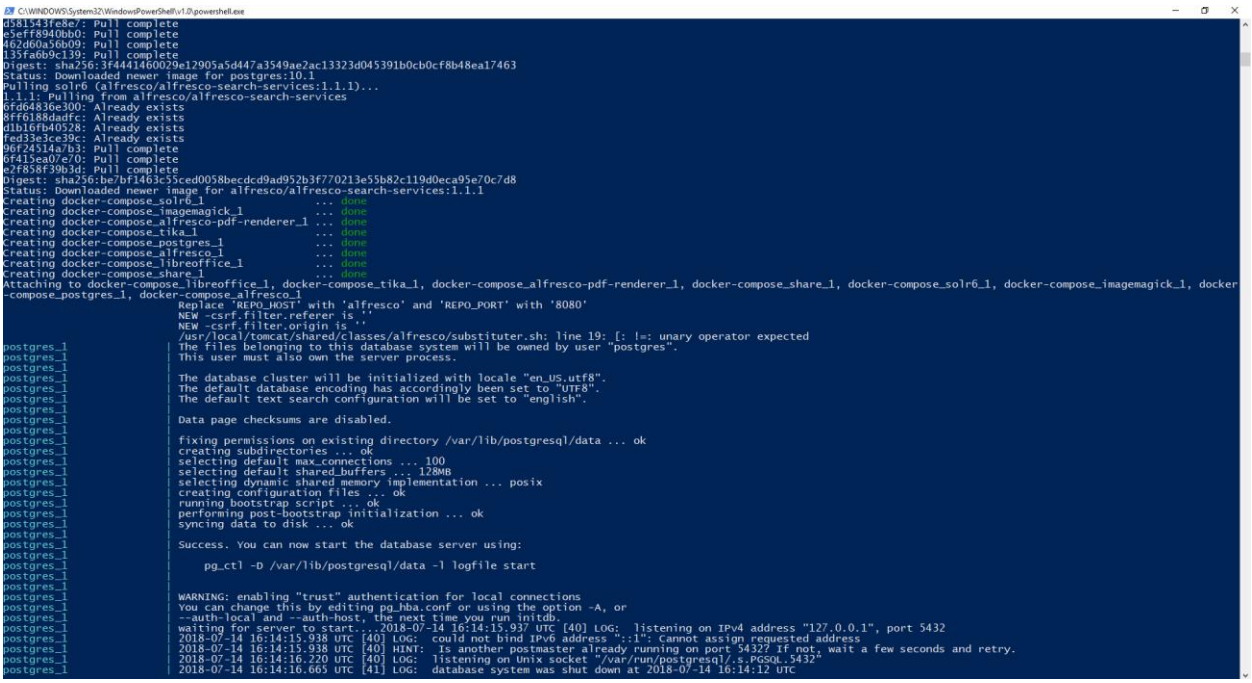
and clone it to a directory – the same way done for UNIX.
You can check the docker and docker compose versions on command prompt , but docker compose up command may not run on command prompt – giving unauthorized issue.



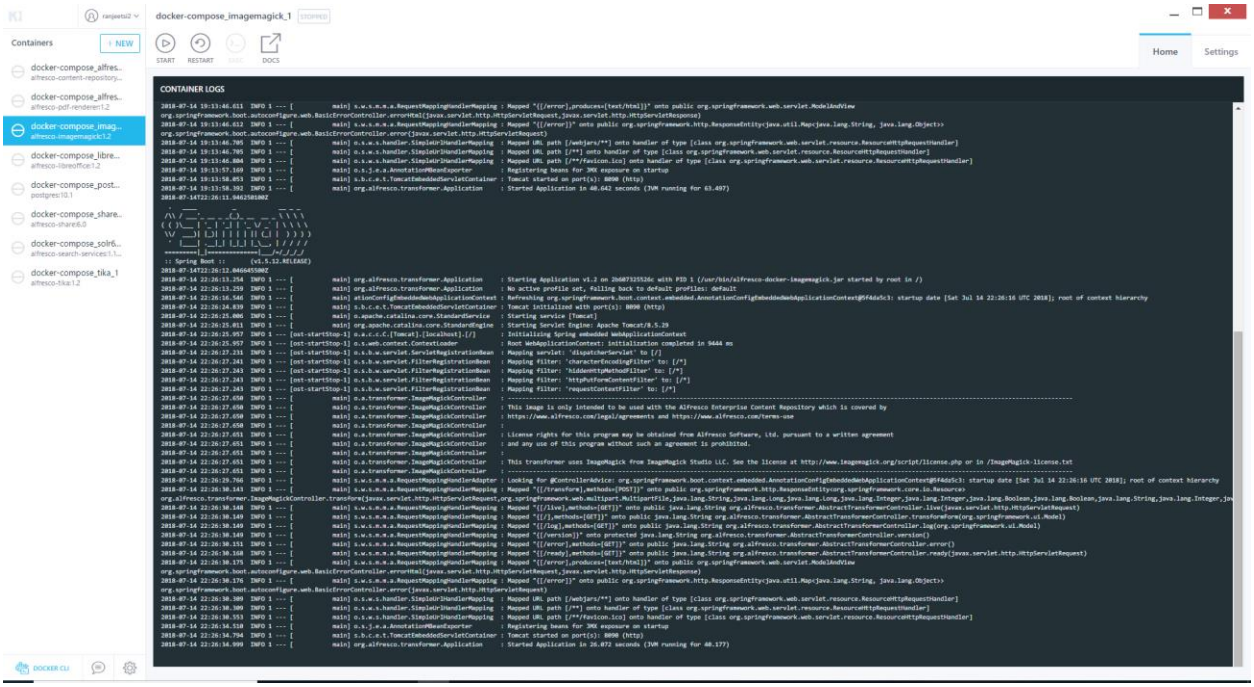
It would work when you logged into docker account and using the docker hub login credentials in kinematics powershell as below:



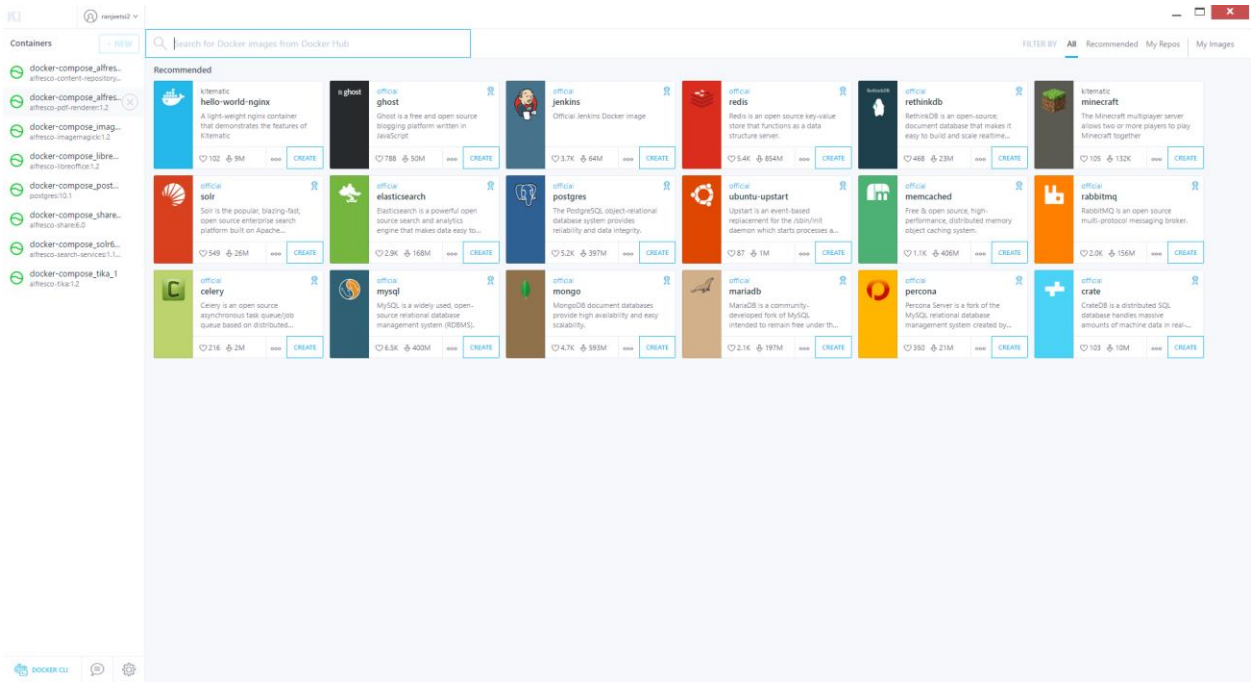
It would take around 30 mins -60 mins to download all dependencies and would create docker containers as below:



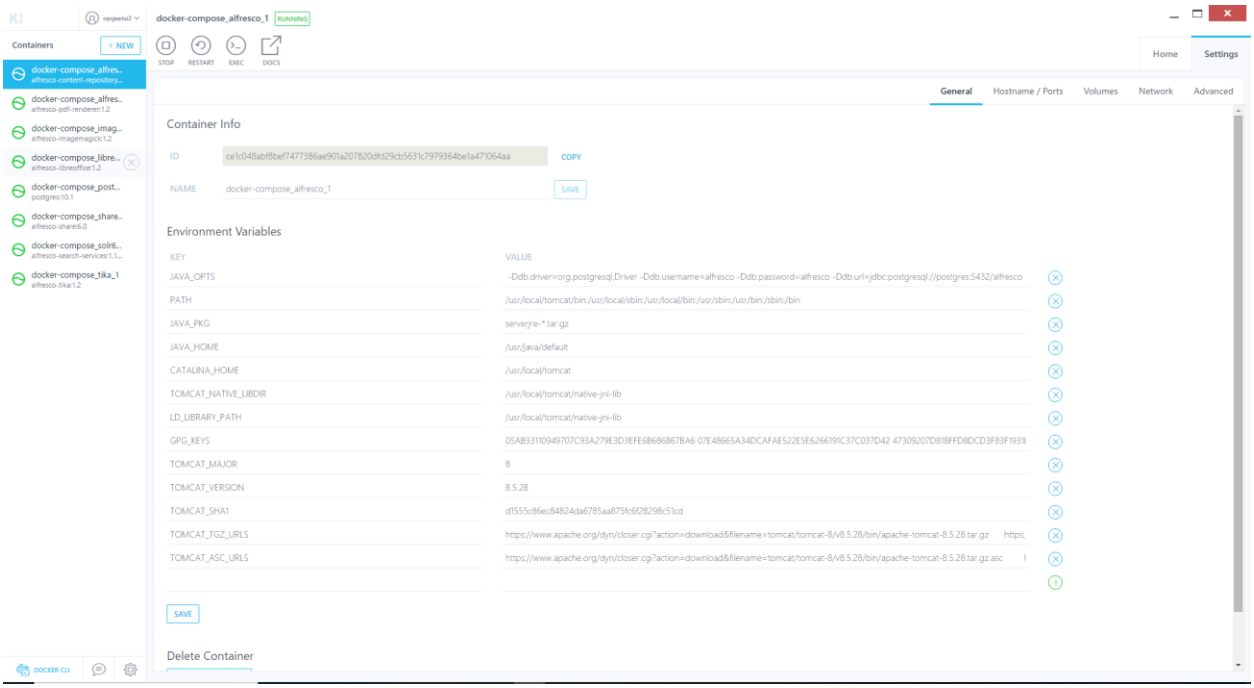
The individual docker container logs can be viewed via the kinematics dashboard as below:



When all the docker containers gets started – all docker containers would be in running as below.



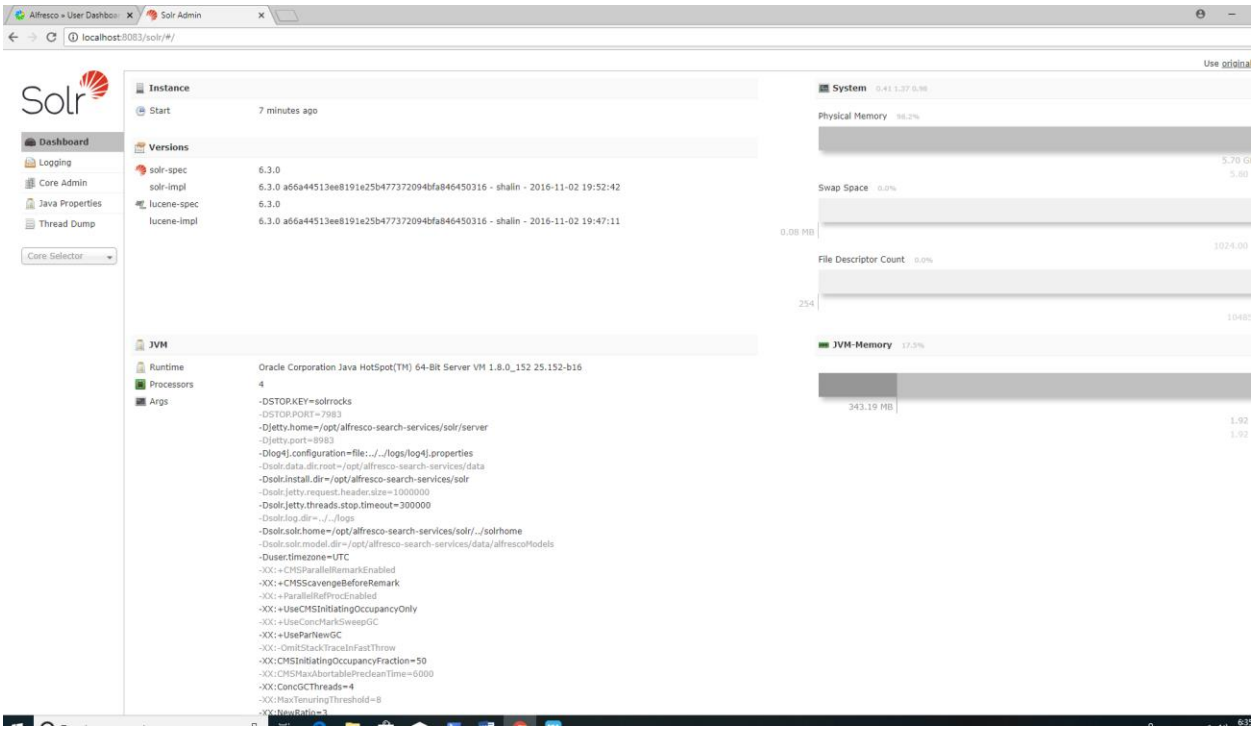
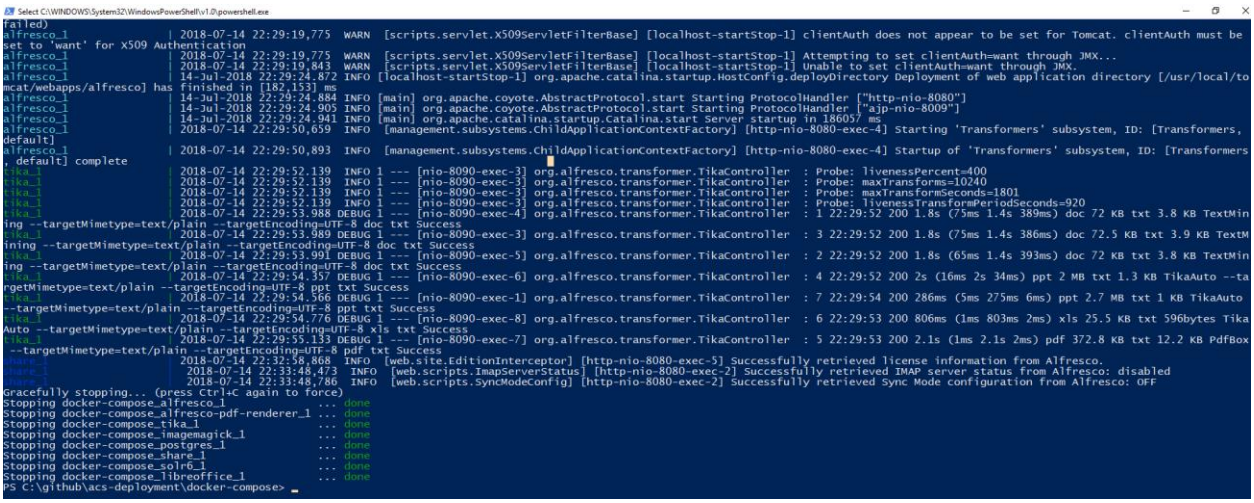
Can check all settings as below for individual containers:



This runs alfresco at http://localhost:8082/alfresco

share application at http://localhost:8080/share

solr application at http://localhost:8083/solr



The containers can elegantly be stopped using Cntrl+C command. And forcefully by again hitting Cntrl+C