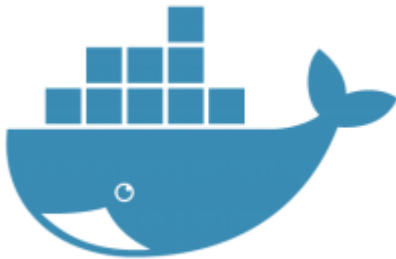




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Alfresco Under Docker



Mikel Asla
Developer @ keensoft

Topics



- Docker overview
- “Dockerized” Alfresco
- Our approach
- Run AMPs in containers
- Future lines of action



Docker overview



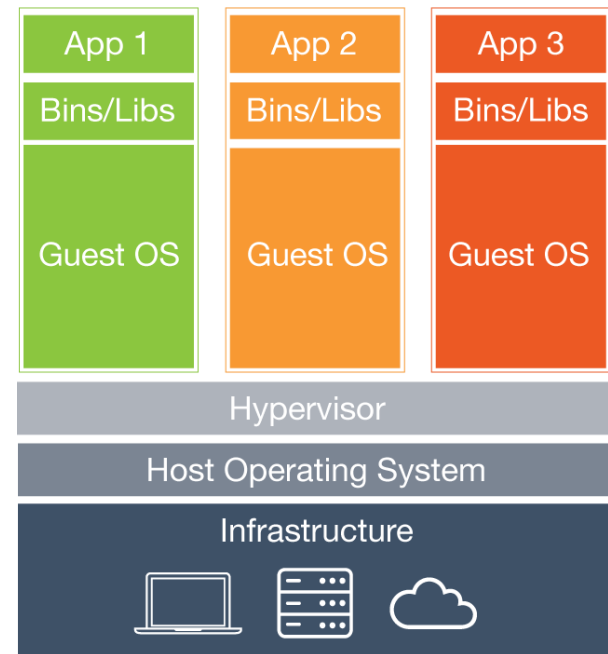
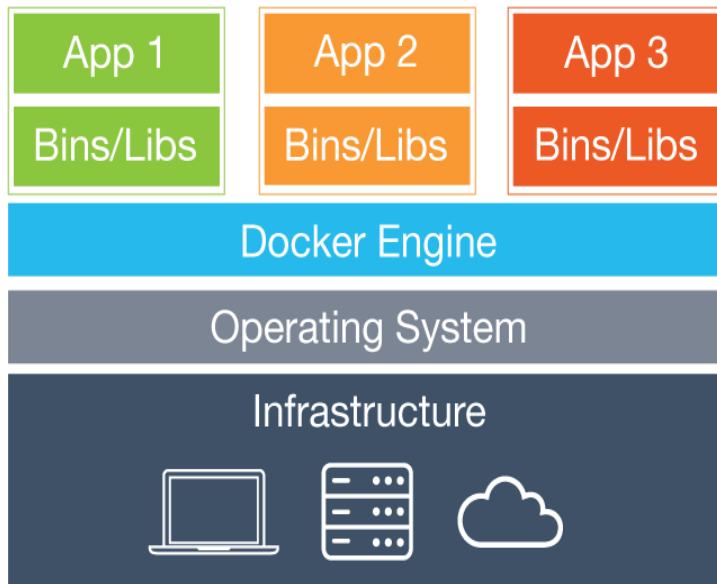
- “Docker allows you to package an application with all of its dependencies into a standardized unit for software development.”
- Declare your app, run and ship anywhere



Docker overview



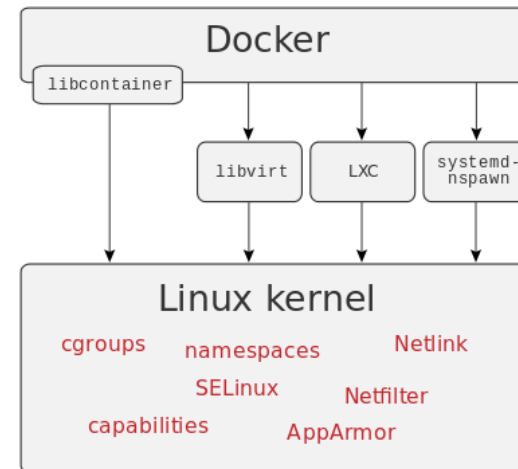
- Containers are not Virtual Machines



Docker overview

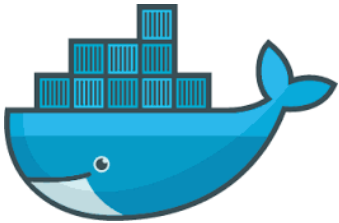


- Docker Host
 - Docker Engine
 - Docker Client
- Build Docker Images
- Run Docker containers based on an Image and any arbitrary commands you'd like on top
- Publish Docker Images (Public or Private)

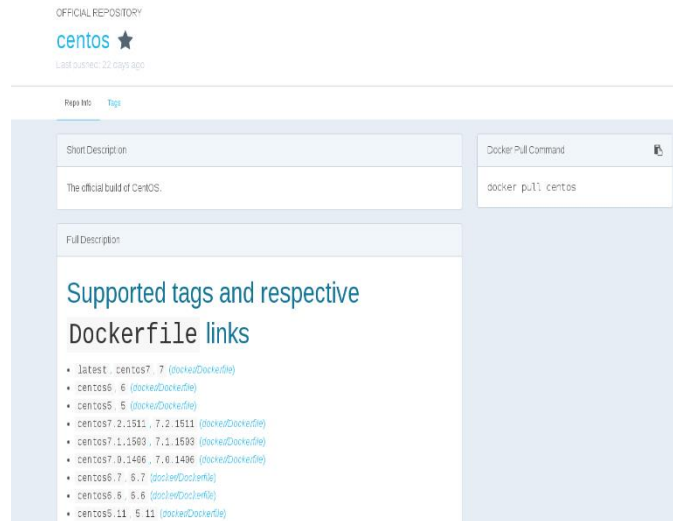


Docker overview

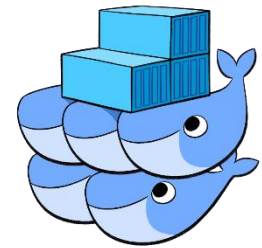
Docker Host



Docker Hub



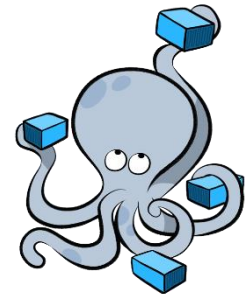
Docker Swarm



Docker Machine



Docker Compose

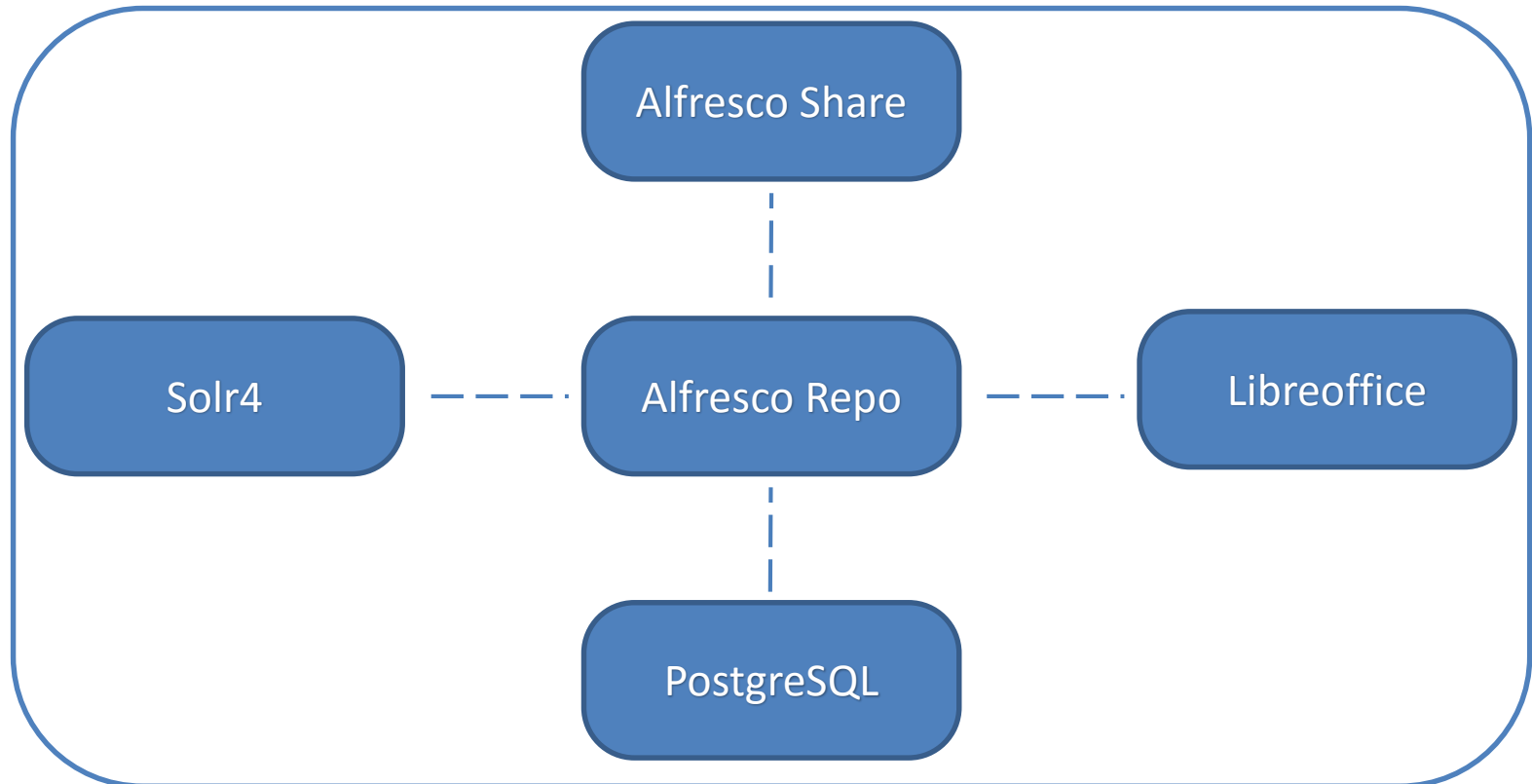


Dockerfile



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Dockerized Alfresco



Docker Host



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Dockerized Alfresco



Order of The Bee distro is experimenting with Docker

<https://github.com/marsbard/docker-alfresco>

Martin Cosgrave has built an specific tool to orchestrate alfresco components in a very flexible way.

<https://github.com/marsbard/grua>



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Dockerized Alfresco



Alfresco is testing Docker

- https://github.com/Alfresco/alf_docker
- <https://www.alfresco.com/blogs/developer/2016/03/23/testing-alfresco-one-with-docker>



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Dockerized Alfresco



Some popular Docker Hub repositories

- <https://hub.docker.com/r/pdubois/docker-alfresco>
- <https://hub.docker.com/r/gui81/alfresco/>



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Our approach



- Docker Images as “client stack templates”
- Development day to day continues the same
- Glue scripting
- Periodically, Test committed code in a “client” container
- Run “client” environments quickly to resolve issues



Our approach



- First step is to create basic templates based on Alfresco Supported Stack and your clients requirements
- <https://hub.docker.com/r/keensoft/alfresco-docker-template/>



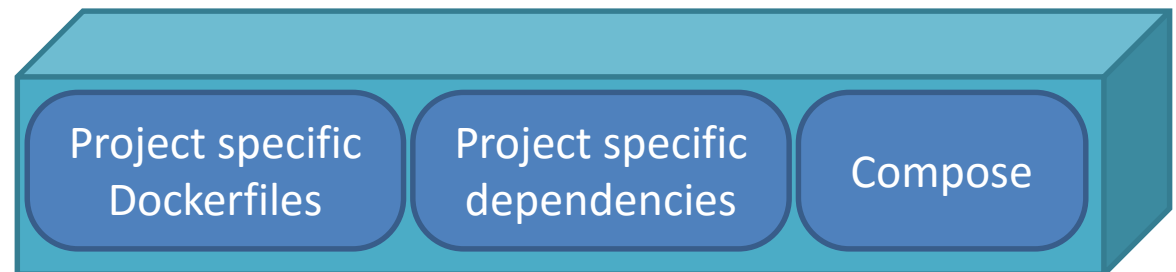
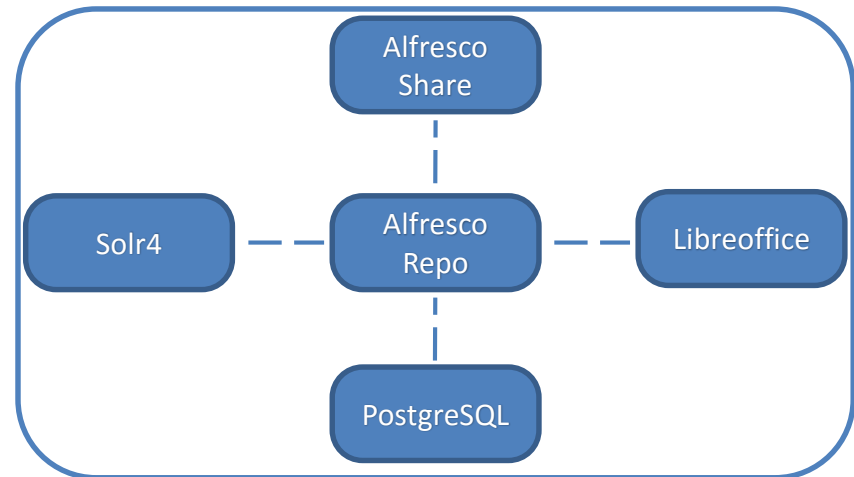
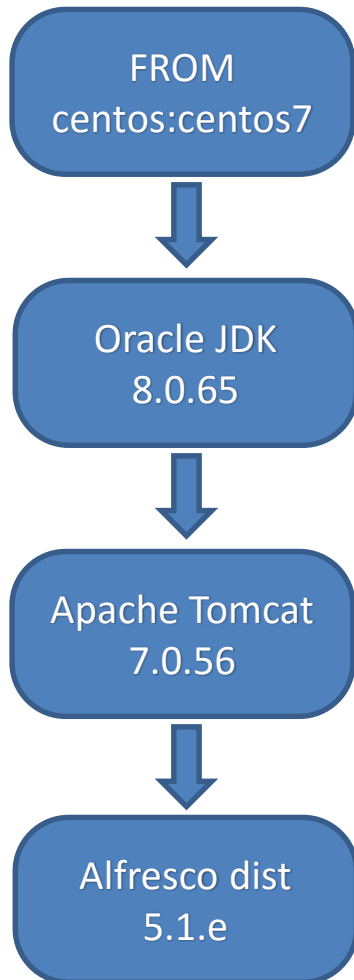
Our approach



- Next step is to define project level image configurations (Auth, Subsystems, ...)
- The simplest is to follow the client installation manual you did and just reproduce it
- You may need other components that cannot be addressed with Docker (Active Directory, ...)



Our approach



Our approach



You can find here our work in this idea

- <https://hub.docker.com/u/keensoft/dashboard/>
- <https://github.com/keensoft>



Our approach



Sample containers for testing components

- <https://github.com/angelborroy-ks/docker-openldap>
- <https://hub.docker.com/r/keensoft/libreoffice/>
- <https://hub.docker.com/r/alexeiled/docker-oracle-xe-11g/>
- https://hub.docker.com/_/postgres/



Our approach



Benefits at this point

- Code is tested in client stack based containers
- Non technical members just love it
- Support team can resolve issues even without being part of the development process
- Engage time to project is very low.



Our approach



How we create basis for the Community

- <https://hub.docker.com/r/mikelasla/alfresco-standalone/>
- <https://github.com/enzor/alfresco>
- <https://github.com/wabson/alfresco-docker-cors>



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Run AMPs in containers

- A simple shell script iterates all artefacts found in master branch.
- Identifies (repo, share, dependency JAR), builds and packages them.
- Copies resulting AMPS to project's *Docker folder*
- Finally runs docker-compose to bring everything up.



Run AMPs in containers

Complete example with Alfresco 201602 GA

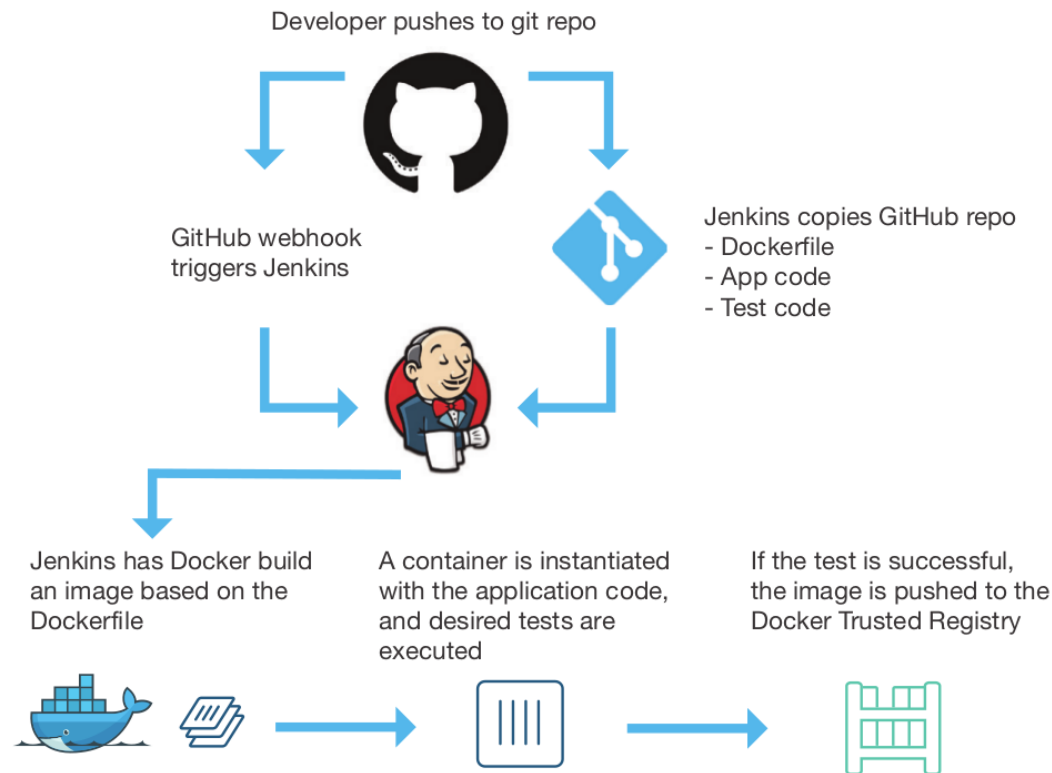
- <https://github.com/keensoft/alfresco-docker-template/blob/master/example>



Future lines of action



- Testing
- CI / CD



Shoot!



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