35.12May.Adv Docker Images

12 May 2023   07:19 PM

1. S1 <-- Communication--->S2   = jenkins# ssh s2(ssh-copyid)
2. Master Slave Architecture
3. Docker
   a. Pull Remote Image(Container Registry)
   b. Local Image(Docker Host)
   c. Image(File) --> Container(Process)
   d. Perform Changes in Container --> Store data using Volume
   e. Apply changes to Local Image --> Remote Image

Local(Docker Host) --> Login--> Remote(Container Registry= hub.docker.com)

Docker Host
1. **Login:** Login with Container Registry
2. **Tag**: Alias of an ImageID
3. Commit: Bind message with changes you did in image
4. **Push**: Take Changes to Remote Image

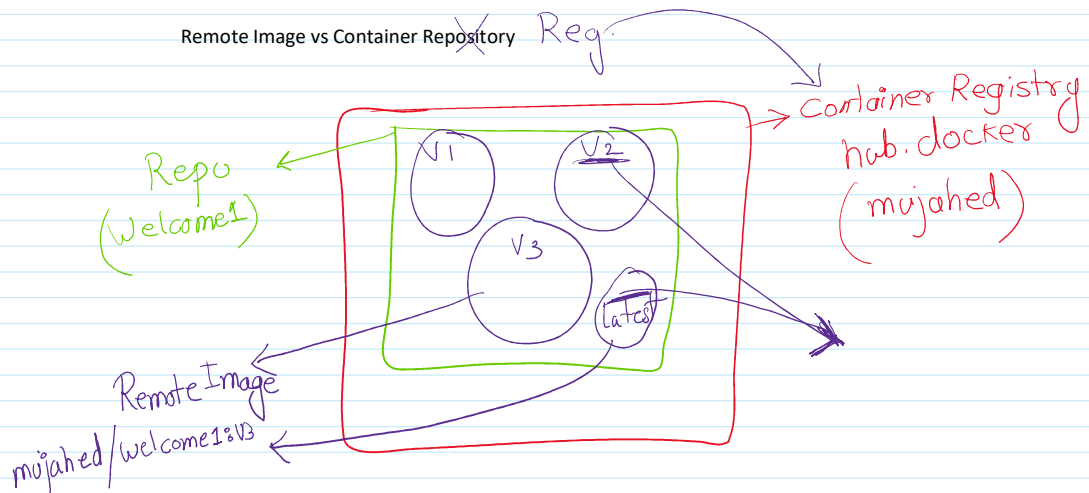Docker Login: Login to a registry(Docker = hub, AWS=ecr, OnPrem=HostName:Port etc.)
Syntax:
    $ docker login [OPTIONS] [SERVER]

    LDAP
Example:
    $ docker login
    UserName:

Remote Image vs Container Repository

    $ docker tag local-image:tagname new-repo:tagname
    $ docker push new-repo:tagname

    Source Image/Local Image   --> Target Image/Remote Image

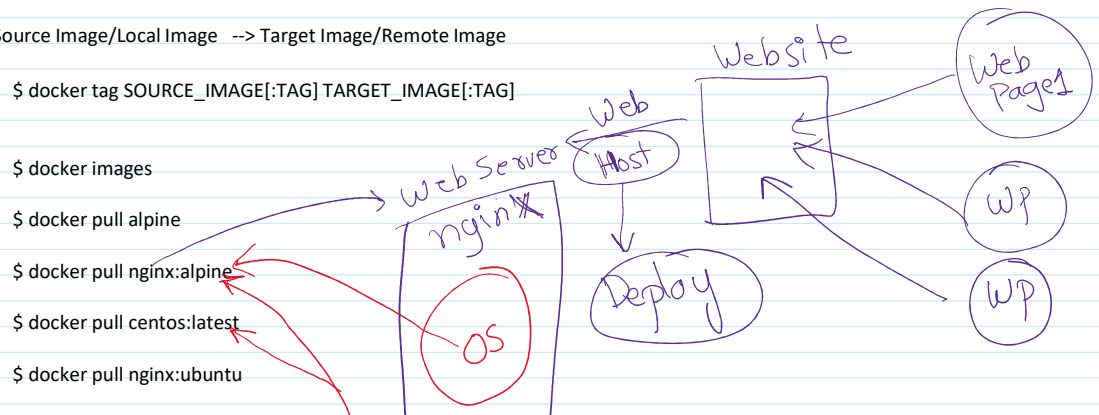 $ docker tag SOURCE_IMAGE[:TAG] TARGET_IMAGE[:TAG]

    $ docker images

    $ docker pull alpine

    $ docker pull nginx:alpine

    $ docker pull centos:latest

    $ docker pull nginx:ubuntu

$ docker pull centos:latest

$ docker pull nginx:ubuntu

$ docker pull nginx:window10

Tag

Run: Convert Local/Remote Image to Container
-i = Interactive Mode

-t = TTY(Terminal)

$ docker run -i -t centos

C$ cd /etc/yum.repos.d/

C$ sed -i 's/mirrorlist/#mirrorlist/g' /etc/yum.repos.d/CentOS-*

C$ sed -i 's|#baseurl=http://mirror.centos.org|baseurl=http://vault.centos.org|g' /etc/yum.repos.d/CentOS-*

C$ yum install man

$docker run -d Image
C1-T1 --> Infinite

$ docker exec CID T2
C1-T2

node1

Installed Docker Host Server

Local Image

pull run

(Hub. Docker Container Registry)

Container

→man

free {Data Center {Host Server($)