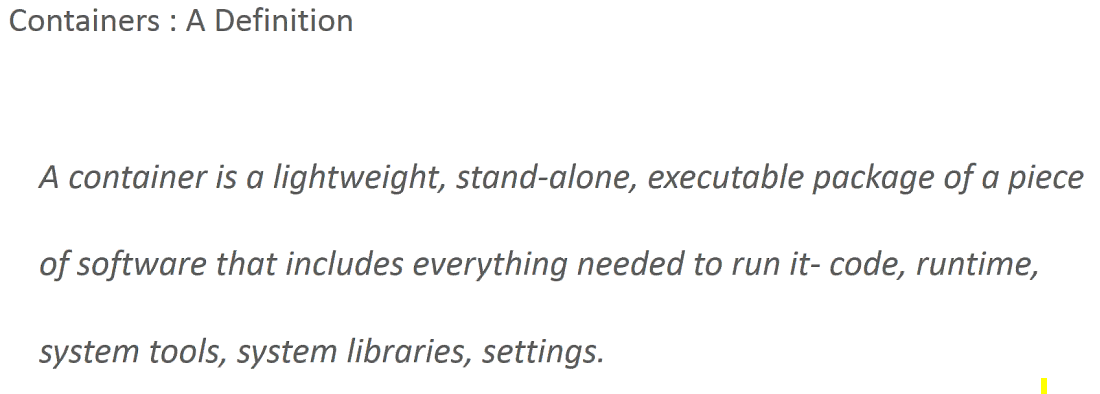
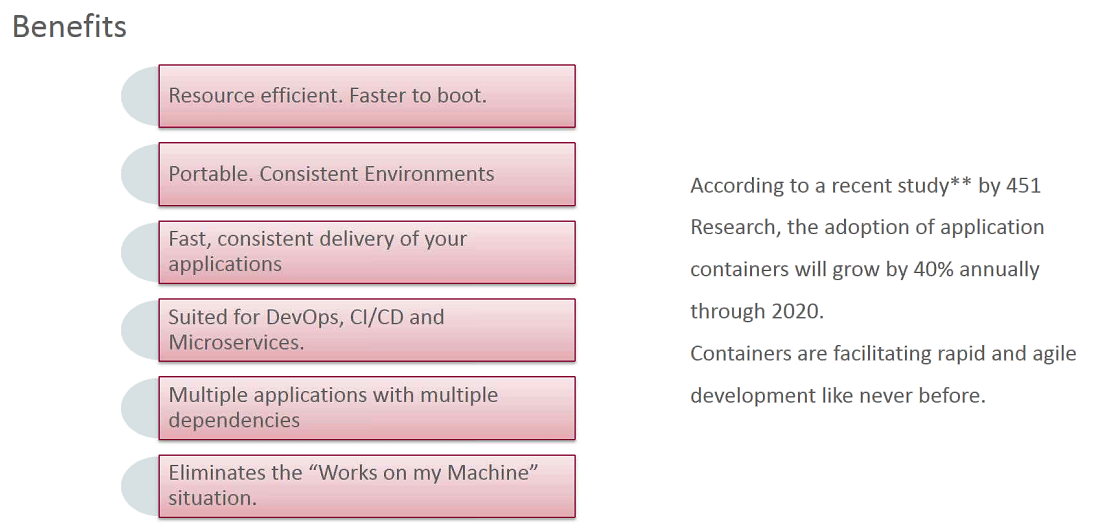
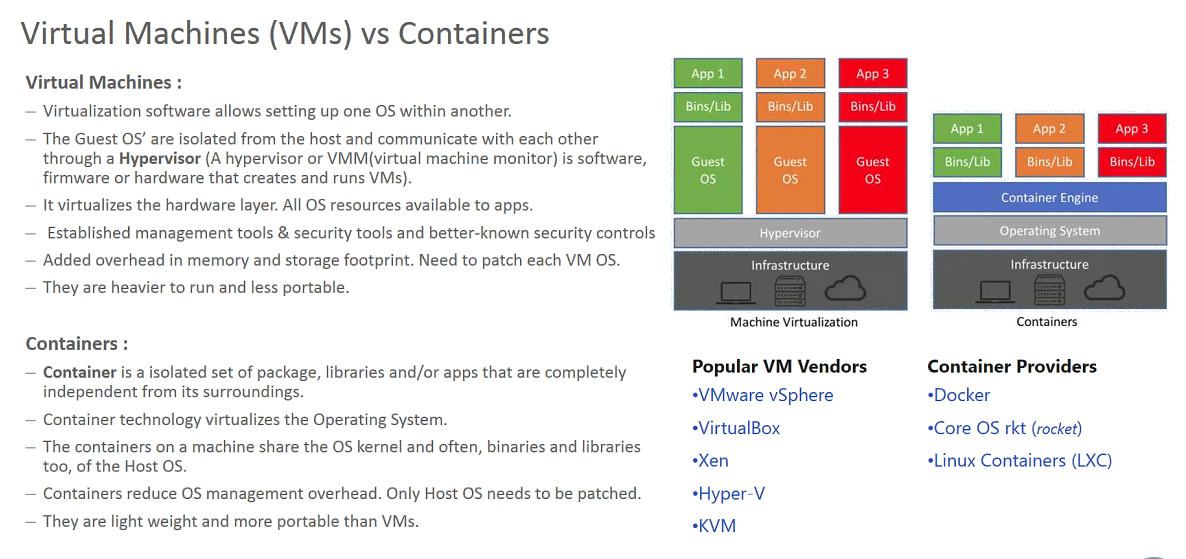
5th Sept,2018

**Docker: Concepts in Container Technologies**

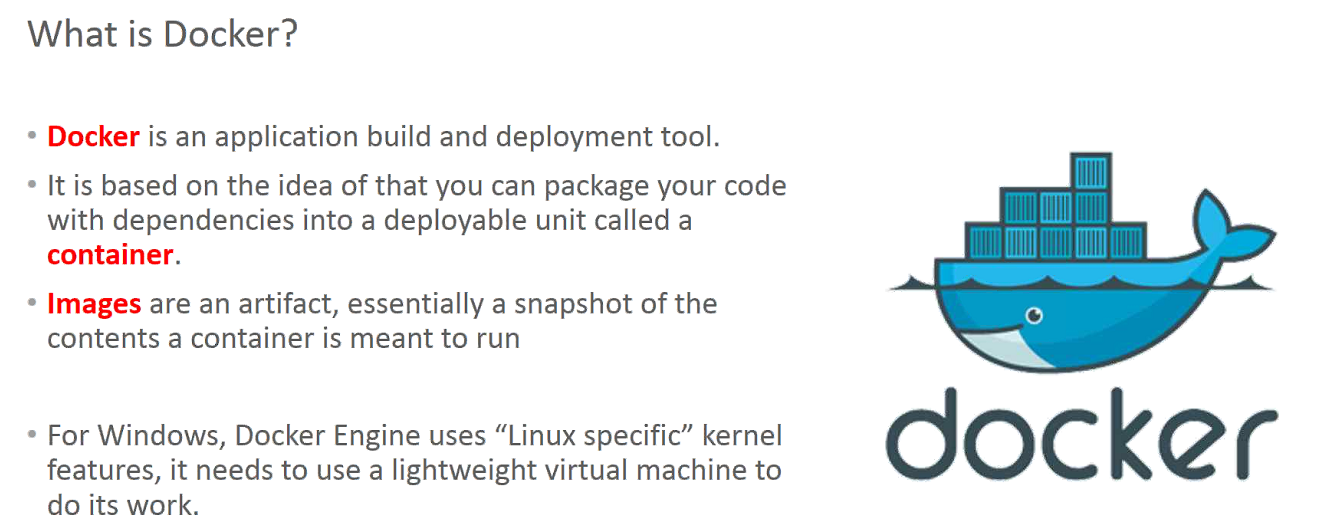


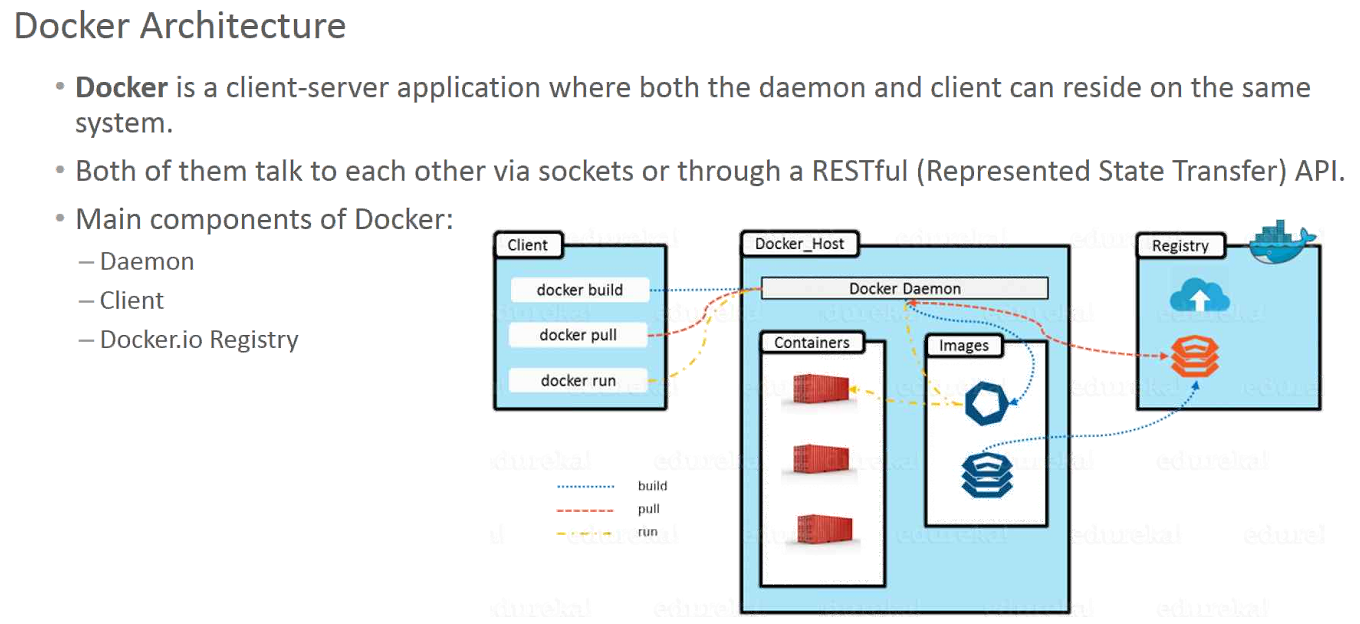


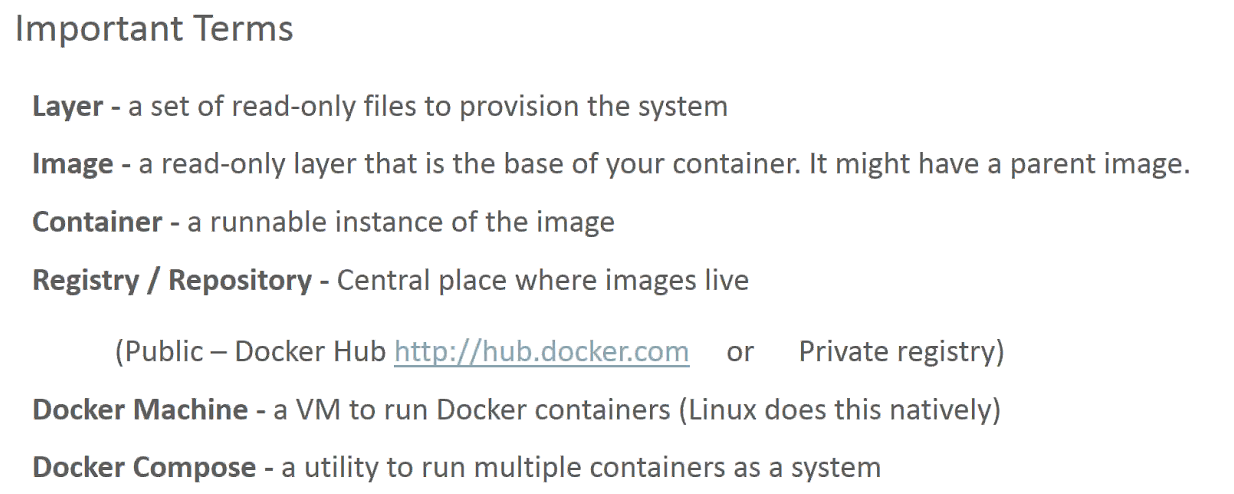


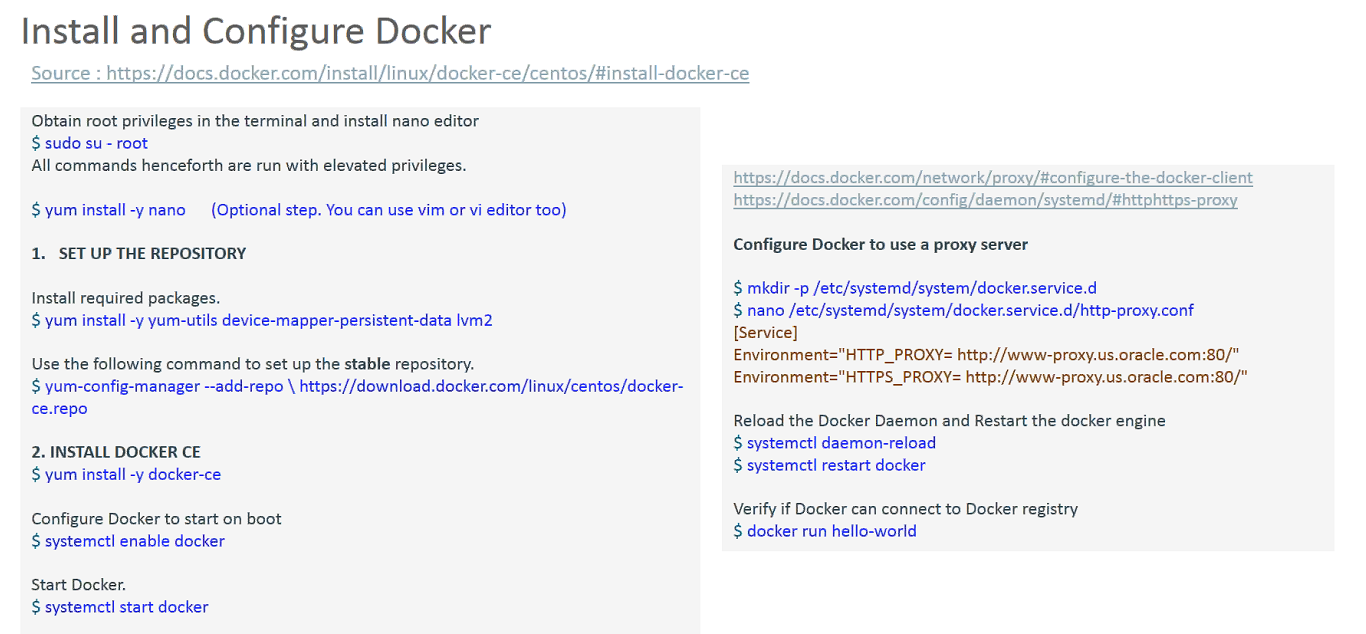


**Virtual Box is the vendor and vagrant are the software to create different VM.**







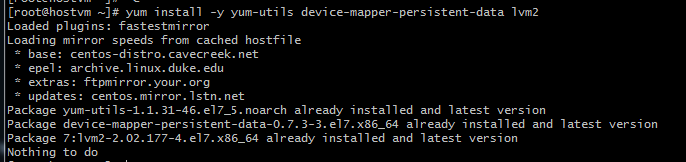


**Source:** [**https://docs.docker.com/install/linux/docker-ce/centos/#install-docker-ce**](https://docs.docker.com/install/linux/docker-ce/centos/#install-docker-ce)

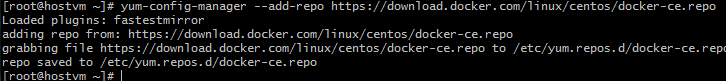
**To install nano editor: pwd: /home/vagrant**

1. sudo su – root
2. whoami 🡪To check the current user
3. yum install -y nano 🡪 To download code editor
4. yum install -y yum-utils device-mapper-persistent-data lvm2

**To enable the system for docker usage these are prerequisite package**



1. **yum-config-manager --add-repo** [**https://download.docker.com/linux/centos/docker-ce.repo**](https://download.docker.com/linux/centos/docker-ce.repo)



1. **To open using nano**

nano /etc/yum.repos.d/docker-ce.repo

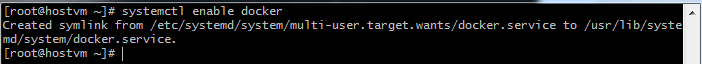
CTRL+X for exit

1. **Installing Docker:**

yum install -y docker-ce

1. **Configure Docker to start on boot**

systemctl enable docker



1. To check the status of docker:

systemctl status docker

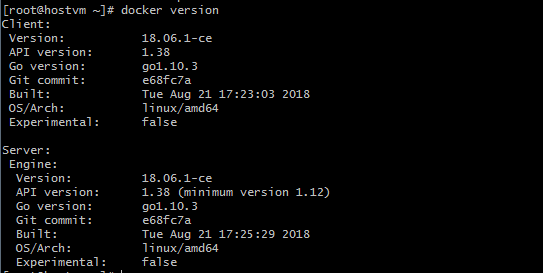
1. **To stop docker**

**Stop docker**

1. **To start docker:**

systemctl start docker

1. To check docker version:



1. **Create an account in docker hub:**

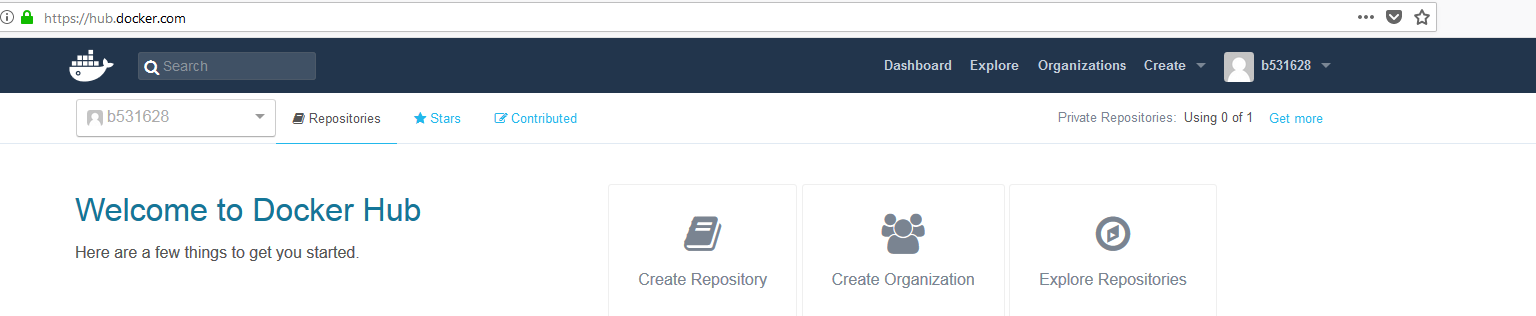
[**https://hub.docker.com/**](https://hub.docker.com/)

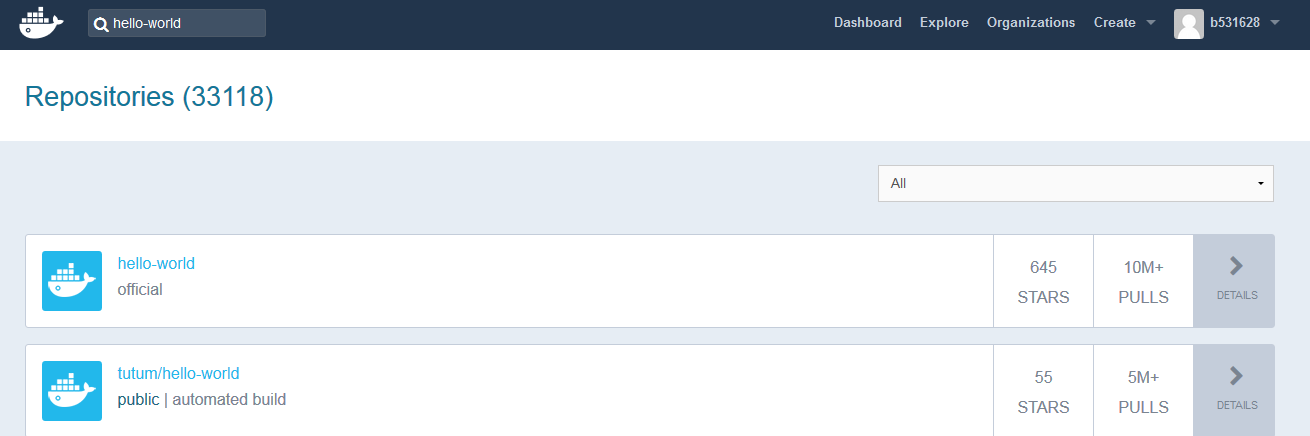
**User Id:** b531628, **Password:** b531628

Email: Bishwajit.patel@oracle.com

2nd account: bispatel/bispatel

Email: bishwajit.patel@gmail.com





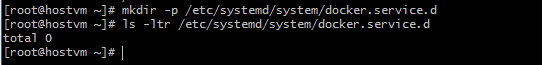
**In the terminal:**

docker search hello-world

1. Docker creates its owner internal network. So isolated layer can interact with internet using proxy

Setting up proxy for docker:

1. mkdir -p /etc/systemd/system/docker.service.d

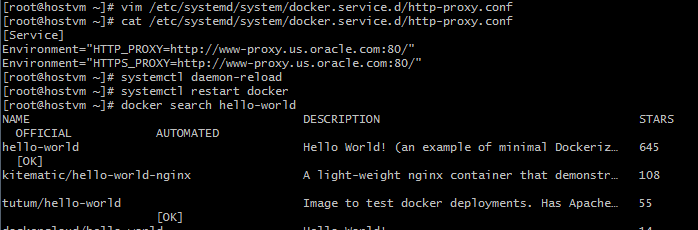


1. ls -ltr /etc/systemd/system/docker.service.d
2. To create config file:

vim /etc/systemd/system/docker.service.d/http-proxy.conf

Content of the file:

[Service]Environment="HTTP\_PROXY=http://www-proxy.us.oracle.com:80/"Environment="HTTPS\_PROXY=<http://www-proxy.us.oracle.com:80/>"



1. Reload docker so that proxy will be picked

systemctl daemon-reload

1. Restart Docker

systemctl restart docker

1. Seraching for a docker repository:

docker search hello-world

Official Image will have : image\_name

Private Image: username/image\_Name

1. Docker documentation:

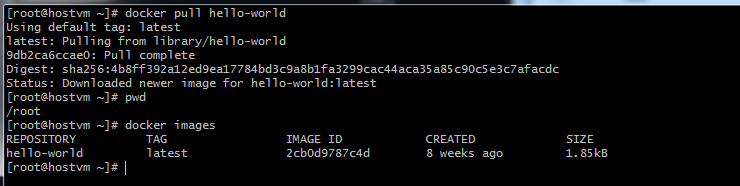
<https://docs.docker.com>

1. To pull docker image from repository:

docker pull hello-world

1. To check all the images in docker:

docker images

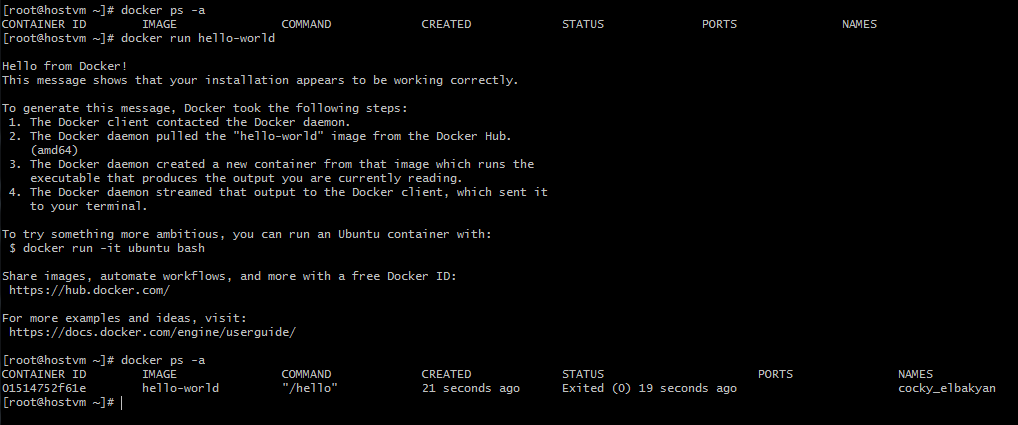


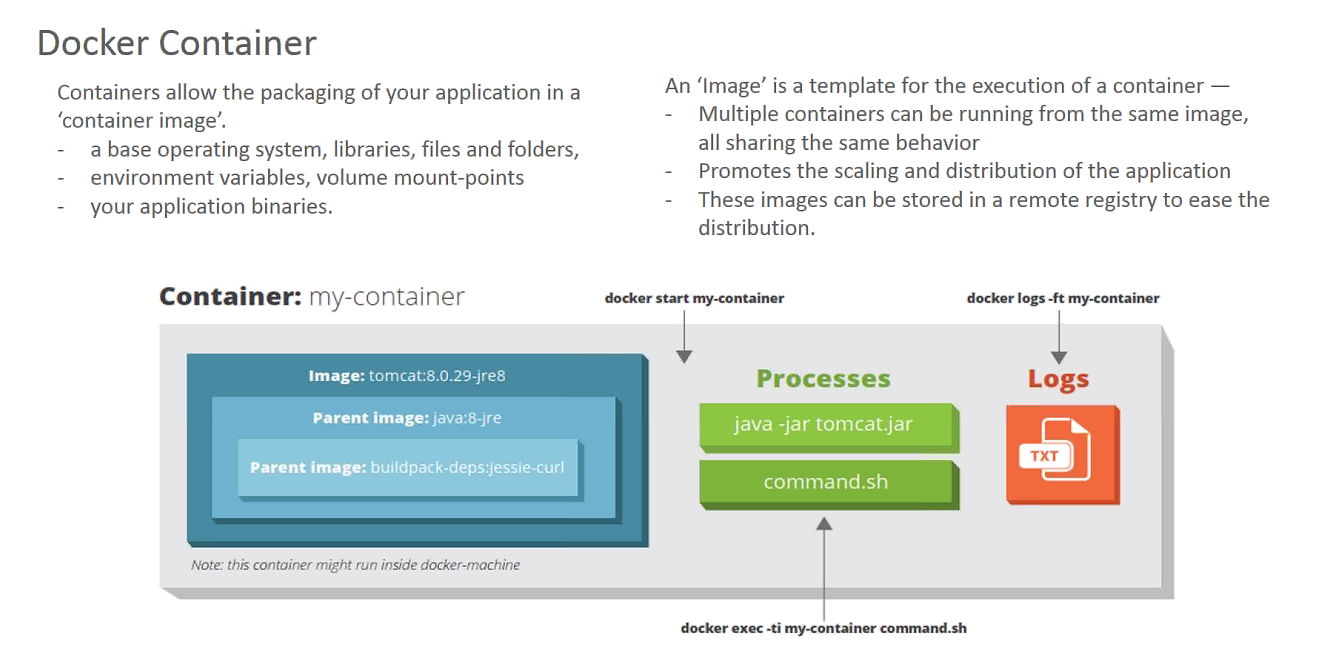
1. To check if any container is running or not

docker ps -a

1. To run image as acontainer

docker run hello-world





1. Online Utility to play with docker:

<https://labs.play-with-docker.com/>

