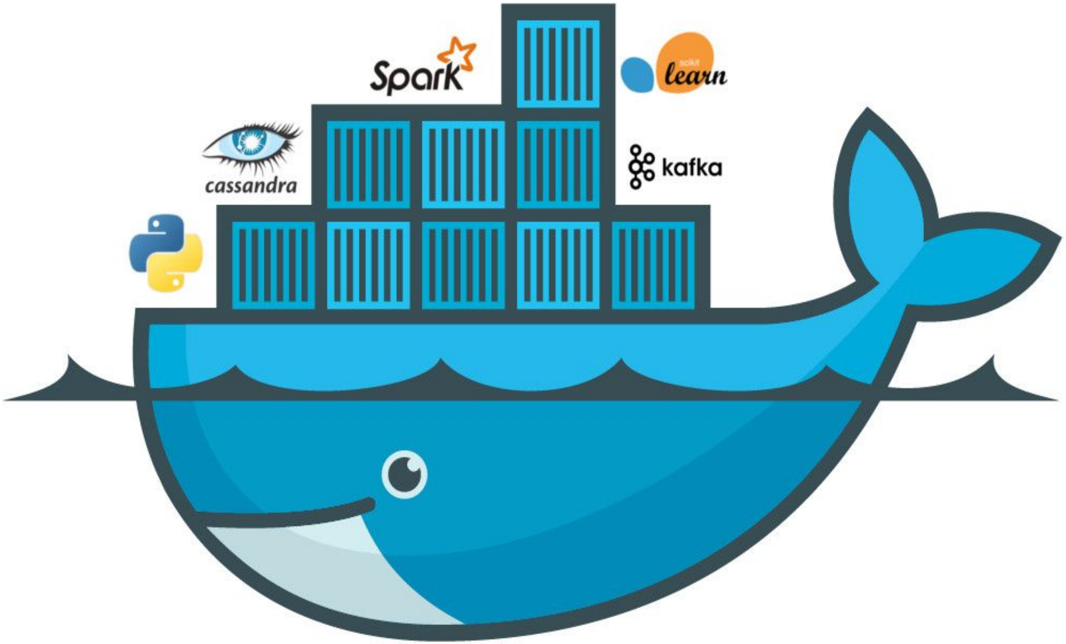
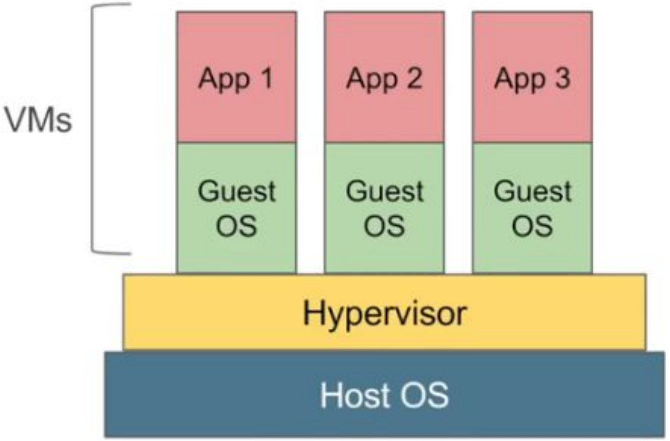
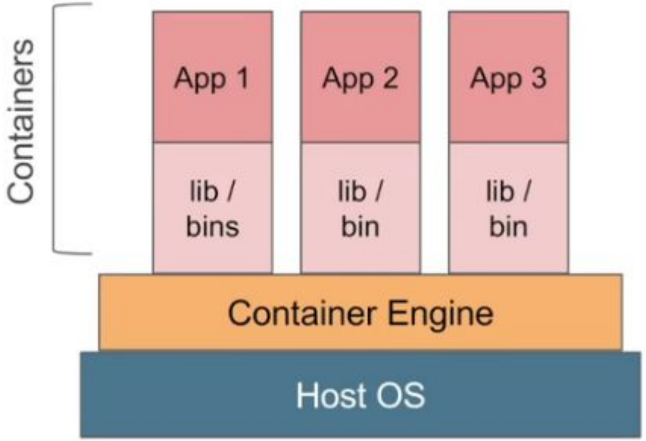


Docker - Command Push



Virtualization



Containerization

VM’s	Containers
1. More time to create	1. less time
2. dedicated OS	2. common OS
3. specific bin / lib	3. common bin/lib
4. dedicated resources	4. common resources
5. memory wastage	5. no memory wastage
6. low performance	6. high performance
7. complex configure	7. simple configurations
8. heavy weight (GB's)	8. light memory (MB's)
9. memory can not share	9. can share memory

Terminology - Image

- images : list all local images

- run : Create a container from an image and execute a command in it

- tag : tag an image

- pull: Download image from repository

- push : to push an image to docker hub

- rmi : delete a local image (this will alos remove intermediate images if no longer user)

Terminology - Container

-ps : list all running container

-ps -a : list all containers (incl. stopped)

-top : display processes of a container

-start : start a stopped container

-stop : stop a running container

-pause : pause all processes within a container

-rm : delete a container

-commit: create an image from a container

-attach: to enter to running container

#docker pull tomcat:8.0 ---> To pull tomcat image from docker hub

#docker run -d -p 8080:8080 tomcat:8.0 ---> To create container from image

(-d detached mode, -p port mapping, -it interactive terminal)

#find / -name webapps ---> to list docker container

#docker commit <container id> <image name> → to create image from container

#docker images ---> to list all images

#docker images -aq ---> to list only image ID’s

#docker ps -aq ---> to list only container id’s

#docker rm <container id> ---> to remove specific container

```
#docker rm $(docker ps -aq)   ---> to remove all container

#docker rmi <image id>  ---> to remove particular image

#docker rmi $(docker  images -aq) ---> to remove all images
```

Docker Push

#docker run -it ubuntu bash → download image from dockerhub and create container and login to container

#apt-get update ---> updating docker container updating

#apt-get install apache2 ---> to install web server in container

(press ctrl+pq to quit from docker container without stopping container)

#docker ps ---> to list all running container

#docker commit <container id> <image name>

#docker tag <image name> rajesh/apache

#docker login

(provide your docker credentials)

#docker push rajesh/apache → pushing to docker hub