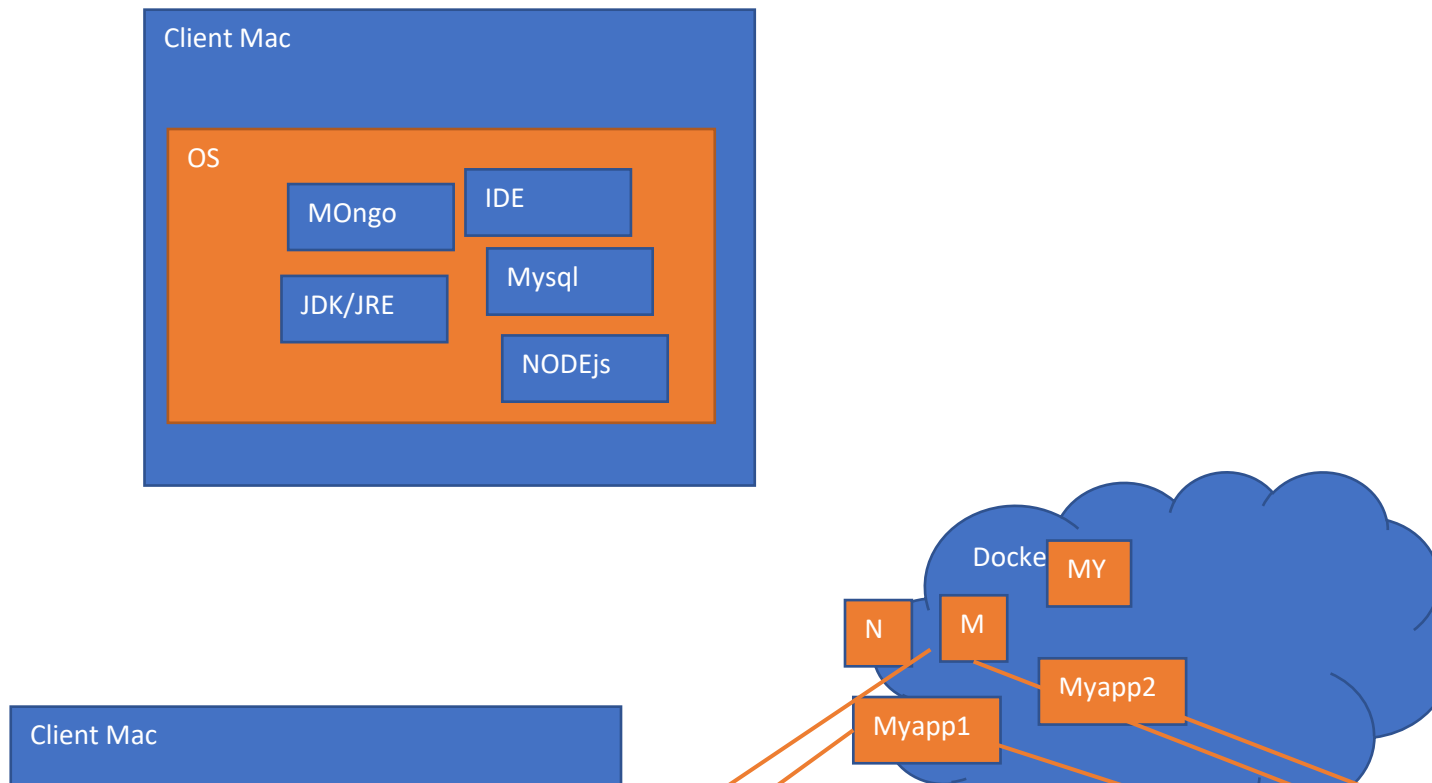
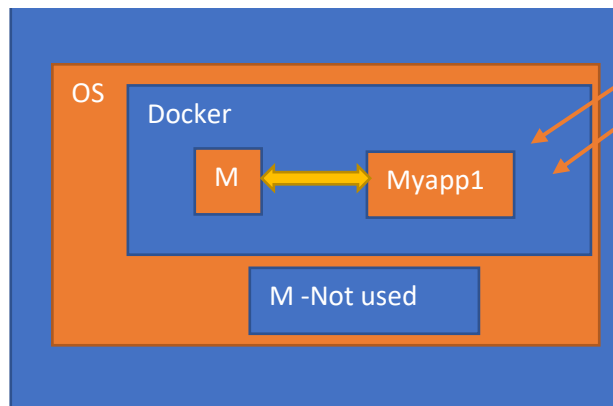


OS
IDE
Core -- jvm ,jre
dependencies - libraries
compiler

Mongo
Mysql





We can pull the image from docker Hub
And we can run the docker Image - containerizing

```
C:\Users\geetha.priya>docker images
REPOSITORY                                TAG          IMAGE ID      CREATED      SIZE
demo1-movieapplication-demoapigateway    latest       09cd9dd59b71  3 weeks ago  497MB
demo1-movieapplication-authentication-service latest       eb61056f43ac  3 weeks ago  262MB
demo1-movieapplication-movie-service      latest       c73c9d6cc7e6  3 weeks ago  247MB
mongo                                     latest       0850fead9327  3 weeks ago  700MB
<none>                                    <none>       90cfd28af846  3 weeks ago  247MB
<none>                                    <none>       6e1fd9078315  3 weeks ago  262MB
mongo                                     <none>       2dd27bb6d3e6  6 weeks ago  695MB
mysql                                     latest       3842e9cdfd2   6 weeks ago  538MB
rabbitmq                                  3.8.23-management f0127df66da4  14 months ago 250MB
```

```
C:\Users\geetha.priya>docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED   STATUS    PORTS   NAMES
```

```
C:\Users\geetha.priya>docker ps -a
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
94b02f3062fc	rabbitmq:3.8.23-management	"docker-entrypoint.s..."	2 weeks ago	Exited (255) 21 hours ago	4369/tcp, 5671/tcp, 0.0.0.0:5672->5672/tcp, 15671/tcp, 15691-15692/tcp, 25672/tcp, 0.0.0.0:15672->15672/tcp
	rabbitmq_container				

Commands:

- docker images - List the images which are pulled from docker hub
- docker ps - List all the container(which is currently running)
- docker ps -a - List all the containers(which is now running as well stopped)

```
C:\Users\geetha.priya>docker ps -a
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
94b02f3062fc	rabbitmq:3.8.23-management	"docker-entrypoint.s..."	2 weeks ago	Exited (255) 21 hours ago	4369/
	rabbitmq_container				

```
C:\Users\geetha.priya>docker rm rabbitmq_container
rabbitmq_container

C:\Users\geetha.priya>docker ps -a
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
--------------	-------	---------	---------	--------	-------	-------

Commands:

- docker ps -a - List all the containers(which is now running as well stopped)
- docker rm <<container-name>> [docker rm rabbitmq_container] - it is removing the specified container from the list

specified container from the list

List of Docker Images

```
C:\Users\geetha.priya>docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
demo1-movieapplication-demoapigateway	latest	09cd9dd59b71	3 weeks ago	497MB
demo1-movieapplication-authentication-service	latest	eb61056f43ac	3 weeks ago	262MB
demo1-movieapplication-movie-service	latest	c73c9d6cc7e6	3 weeks ago	247MB
mongo	latest	0850fead9327	3 weeks ago	700MB
<none>	<none>	90cfd28af846	3 weeks ago	247MB
<none>	<none>	6e1fd9078315	3 weeks ago	262MB
mongo	<none>	2dd27bb6d3e6	6 weeks ago	695MB
mysql	latest	3842e9cdfd2	6 weeks ago	538MB
rabbitmq	3.8.23-management	f0127df66da4	14 months ago	250MB

Removing Docker image with id ----- docker rmi <<copy and paste id of image>>

```
C:\Users\geetha.priya>docker rmi f0127df66da4
Untagged: rabbitmq:3.8.23-management
Untagged: rabbitmq@sha256:b6e48c2887096d9fcb51b4a2bac56cde4edb31632394c1e46420db9ace128434
Deleted: sha256:f0127df66da4fdc351ecd2fbccbd456b9390d172acc85b63a55504ca8bc86623
Deleted: sha256:7db45b21129e86a9c5a9cfdca25590da0cf5bcd776f7fb104fded4adf5a757b
```

Removing Docker image with name and tag ----- docker rmi <<repository:tag>>

```
C:\Users\geetha.priya>docker rmi mysql:latest
Untagged: mysql:latest
Untagged: mysql@sha256:96439dd0d8d085cd90c8001be2c9dde07b8a68b472bd20efcbe3df78cff66492
Deleted: sha256:3842e9cdfd239649671beaec03b363b52f7b050fbb4a8869c052438408d6d2e
Deleted: sha256:1f42c1dd3cbbd4976bb03a3e9cda08a64f92c4b35c85406dd61fc675c06fea06
Deleted: sha256:615793330ac611559cd6f0a464f0159eb05ad3876198859c92daf53cb4c57ea0
```

rabbitmq and mysql:latest is removed

```
C:\Users\geetha.priya>docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
demo1-movieapplication-demoapigateway	latest	09cd9dd59b71	3 weeks ago	497MB
demo1-movieapplication-movie-service	latest	c73c9d6cc7e6	3 weeks ago	247MB
demo1-movieapplication-authentication-service	latest	eb61056f43ac	3 weeks ago	262MB
mongo	latest	0850fead9327	3 weeks ago	700MB
<none>	<none>	90cfd28af846	4 weeks ago	247MB
<none>	<none>	6e1fd9078315	4 weeks ago	262MB
mongo	<none>	2dd27bb6d3e6	6 weeks ago	695MB

Commands:

docker pull mongo - will by default pull latest version of mongo image from docker hub
docker pull mongo: any tagname can be copied from hub

Below command is to containerize or run mongo image

```
C:\Users\geetha.priya>docker run --name mongo_container1 -p 27017:27017 mongo:latest
```

When mongo container is running in another another cmd open new cmd and give below command

```
C:\Users\geetha.priya>docker exec -it mongo_container2 bash
root@38c3c8353eca:/# mongosh
Current Mongosh Log ID: 62b52010bb74038e45d62182
```

Commands to stop and start container

```
C:\Users\geetha.priya>docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	N
38c3c8353eca	mongo:latest	"docker-entrypoint.s..."	29 minutes ago	Up 29 minutes	0.0.0.0:27017->27017/tcp	m

```

C:\Users\geetha.priya>docker stop mongo_container2
mongo_container2

C:\Users\geetha.priya>docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS     NAMES
C:\Users\geetha.priya>docker start mongo_container2
mongo_container2

```

Creating Network and listing commands

```

C:\Users\geetha.priya>docker network create mynet1
e9e1430862bedcd80feb6e6060357dbbd05ba18ee59c74c60f6bc533efaf9928

C:\Users\geetha.priya>docker network ls
NETWORK ID     NAME      DRIVER    SCOPE
880d1fd96994   bridge    bridge    local
32fcb1bf182a   host      host      local
0e729ac29426   mynet     bridge    local
e9e1430862be   mynet1    bridge    local

```

Pulling mysql Image

```

C:\Users\geetha.priya>docker pull mysql
Using default tag: latest
latest: Pulling from library/mysql

```

Running pulled mysql image inside network created

```

C:\Users\geetha.priya>docker run -it --network mynet1 --name mysql_container1 -e MYSQL_ROOT_PASSWORD=root -d mysql:latest
3a6cf2ff1644d58ec3b79a60704a197da85ba5916ef93df0d7153379853877ec

C:\Users\geetha.priya>docker exec -it mysql_container1 bash

```

```
C:\Users\geetha.priya>docker exec -it mysql_container1 bash
```

```
bash-4.4# mysql -u root -p
```

```
Enter password:
```

```
Welcome to the MySQL monitor.  Commands end with ; or \g.
```

```
Your MySQL connection id is 8
```

```
Server version: 8.0.31 MySQL Community Server - GPL
```

```
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```

```
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affiliates. Other names may be trademarks of their respective  
owners.
```

```
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
```

```
mysql> create databse wave37;
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right
```

```
mysql> create database wave37;
```

```
Query OK, 1 row affected (0.02 sec)
```

```
mysql> use wave37
```

```
Database changed
```

```
mysql> create table stud(id number,name varchar(15))
```

```
-> ;
```

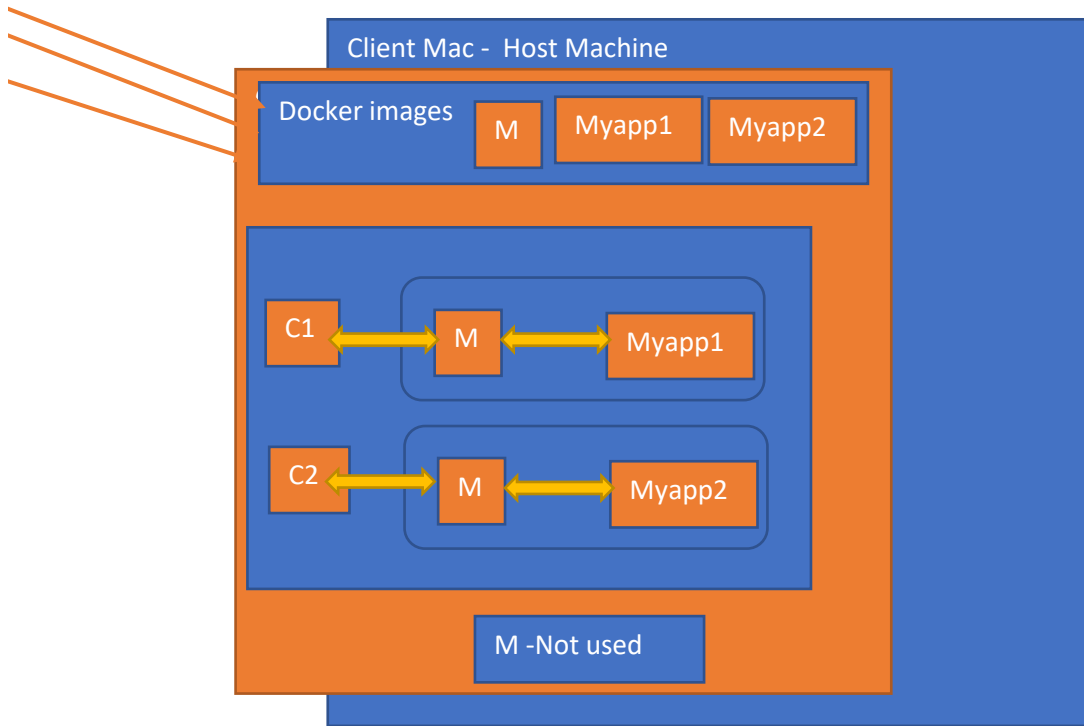
enter password

Images

Mongo

Mysql

ode



```
$  
/tcp, 5671/tcp,
```


JAMES
mongo_container2

