

DOCKER

—Case Sensitive—

Docker help

Docker pull rabbitmq

Docker images —> to show all the images in local

<https://hub.docker.com/>

- docker run – Runs a command in a new container.
- docker start – Starts one or more stopped containers
- docker stop – Stops one or more running containers
- docker build – Builds an image from a Docker file
- docker pull – Pulls an image or a repository from a registry
- docker push – Pushes an image or a repository to a registry
- docker export – Exports a container's filesystem as a tar archive
- docker exec – Runs a command in a run-time container
- docker search – Searches the Docker Hub for images
- docker attach – Attaches to a running container
- docker commit – Creates a new image from a container's changes

Docker images

Docker ps -a

Docker rm process_id

docker rmi Image Image——> to remove an image

./gradlew featureTest ——> to run a particular task (featureTest)

——To run rabbitMQ in docker on particular port(15672)—

docker run -d --hostname rabbitmq --name testing-rabbitmq -p 5672:5762 -p 5671:5671 -p 15672:15672 rabbitmq:3.6.6-management

One liner to stop / remove all of **Docker** containers:

```
docker stop $(docker ps -a -q)
```

```
docker rm $(docker ps -a -q)
```

DOCKER IMAGE

```
FROM openjdk:8
```

```
ADD target/inventorymngt.jar inventorymngt.jar
```

```
EXPOSE 8088
```

```
ENTRYPOINT ["java", "-jar", "inventorymngt.jar"]
```

```
docker build -f Dockerfile -t inventoryspringboot .
```

```
docker run -p 8088:8080 inventoryspringboot
```

—————Pushing the images to docker

```
https://ropenscilabs.github.io/r-docker-tutorial/04-Dockerhub.html
```

```
docker login --username=punugupatimahesh --email=mahesh.rvrjc@gmail.com
```

```
docker images
```

```
docker tag ff79a2df2ab5 punugupatimahesh/inventoryspringboot:finalversion
```

```
docker push punugupatimahesh/inventoryspringboot
```

```
docker pull jenkins/jenkins
```

```
docker run -p 8888:8080 --name=jenkins-master jenkins/jenkins
```

8888 is exposing port for outside

Docker tutorial

```
docker run hello-world
```

```
sudo docker run centos -it /bin/bash
```

—**it** is used to mention that we want to run in **interactive mode**.

—**/bin/bash** is used to run the bash shell once CentOS is up and running

```
docker images
```

```
sudo docker run centos
```

Removing Docker Images

```
docker rmi
```

```
docker rmi fd484f19954f //remove image
```

```
docker images -q
```

```
docker inspect jenkins
```

```
docker ps -a
```

`docker history ImageID` —> With this command, you can see all the commands that were run with an image via a container.

`docker top ContainerID` —> With this command, you can see the top processes within a container.

`docker stop ContainerID`

`docker rm ContainerID`

`docker stats ContainerID` —> This command is used to provide the statistics of a running container.

`docker pause ContainerID` —> This command is used to pause the processes in a running container.

`docker unpause ContainerID`