# Docker Deployment

## Download and installation

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

## Create Docker Image

1. Create a “Dockerfile” in your project folder with the following FOUR entries:

FROM openjdk:8

ADD target/usman-sboot-docker.jar usman-sboot-docker.jar

EXPOSE 8090

ENTRYPOINT ["java", "-jar", "usman-sboot-docker.jar"]

1. Build from the command prompt:

D:\Farkalit\devops\usman-sboot-docker>docker build -f Dockerfile -t usman-sboot-docker .

View the images: D:\Farkalit\devops\usman-sboot-docker>docker images

OR: $ docker image ls

Or for all the images: $ docker images -a

## **Deleting/Removing** the Docker Image

Delete: $ docker rmi usman-sboot-docker

It will remove the images from docker container.

## Deploy and Run the Image from container

Run the App: $ docker run -p 8090:8080 usman-sboot-docker

It means the application we have to map the port of the host operating system - **8090** and the port inside the container - **8080**, which is specified as the -p 8090:8080 argument.

Note: If you facing any problem to display the URL: <http://localhost:8090/demo/test> then please also add the default server port in application.properties as ***server.port=8080***

## **Stopping/Killing** the Docker Image from the container

If an application (docker image) is deployed and running, then you may stop/kill it with the following command. Apply control C [CNTRL ^C] first.

View all containers with CONTAINER\_ID and ports details: $ docker ps -a

Stop: $ docker container rm -f [CONTAINER\_ID]

::OR::

On Windows systems, CTRL+C does not stop the container. So, first type CTRL+C to get the prompt back (or open another shell), then type:

$ docker container ls to list the running containers, followed by

$ docker container stop <Container NAME or ID> to stop the container.

Otherwise, you get an error response from the daemon when you try to re-run the container in the next step.

## View the Details of deployed application

$ docker inspect <CONTAINER\_NAME>

## Docker hub

URL: <https://hub.docker.com/search?image_filter=official&type=image>

## Further Reading

URL: <https://docs.docker.com/docker-for-windows/>

## Delete All Docker Images and Containers

To delete untagged images use:

docker images (to see what the extent of the issue is), then

docker rmi -f $(docker images | grep "<none>" | awk "{print \$3}")

and similarly for containers, try something like

docker rm -f $(docker ps -aq) (this will remove all containers, so be careful)

Oracle Configuration:

