**6: Docker - Build Docker Image locally, Test and Push it to Docker Hub**

--- Reference - https://github.com/stacksimplify/docker-fundamentals/tree/master/04-Build-new-Docker-Image-and-Run-and-Push-to-DockerHub

**Create a new Docker Image, Run as Container and Push to Docker Hub**

**Pre-requisite Step**

--- Create your Docker hub account.

--- <https://hub.docker.com/> - this is the dockerhub account url. You can click on this url created your

Own dockerhub account.

--- **note** - Important Note: In the below listed commands wherever you see stacksimplify you can replace with your docker hub account id.

**Run the base Nginx container**

--- **Access the URL http://localhost**

--- **docker run --name mynginxdefault -p 80:80 -d nginx** -

--- **docker ps**

--- **docker stop mynginxdefault** – for stopping the container

**Create Dockerfile and copy our customized index.html**

--- Dockerfile

**FROM nginx**

**COPY index.html /usr/share/nginx/html**

**Build Docker Image & run it**

--- **docker build -t stacksimplify/mynginx\_image1:v1 .** – it will build an image from docker file.

--- **docker run --name mynginx1 -p 80:80 -d stacksimplify/mynginx\_image1:v1** – I am building container form image.

**Replace your docker hub account Id**

--- **docker build -t <your-docker-hub-id>/mynginx\_image1:v1 .**

--- **docker run --name mynginx1 -p 80:80 -d <your-docker-hub-id>/mynginx\_image1:v1**

**Tag & push the Docker image to docker hub**

--- **docker images** – to list the current images.

--- **docker tag stacksimplify/mynginx\_image1:v1 stacksimplify/mynginx\_image1:v1-release** – to change the image name or to image tag.

--- **docker push stacksimplify/mynginx\_image1:v1-release** – to push the image to the dockerhub.

**Replace your docker hub account Id**

--- **docker tag <your-docker-hub-id>/mynginx\_image1:v1 <your-docker-hub-id>/mynginx\_image1:v1-release**

--- **docker push <your-docker-hub-id>/mynginx\_image1:v1-release**

**Verify the same on docker hub**

--- **note** - Login to docker hub and verify the image we have pushed

Url: https://hub.docker.com/repositories