



**ROI**TRAINING

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# Cheat Sheet: Uploading Images to a Registry

# Docker Hub

- Prerequisites:
  - Create a Docker Hub account if you don't already have one
    - Go to Docker Hub (<https://hub.docker.com>)
    - Click the **Register** button and create an account
    - **Use a personal email address**, we don't wish to mix with work assets

# Using a Container Registry

- In Cloud Shell:
  - From the **external** folder, run the following command:  
`docker build . -t your-docker-hub-id/external:v1.0`  
Replace *your-docker-hub-id* with your Docker Hub account
  - From the **internal** folder, run the following command:  
`docker build . -t your-docker-hub-id/internal:v1.0`
- Next, run the following commands to push your images to Docker Hub:  
`docker login`  
`docker push your-docker-hub-id/internal:v1.0`  
`docker push your-docker-hub-id/external:v1.0`

# Remove All Local Containers and Images

- If you have any previous containers running, you will need to stop them
  - Or you will get a port number already in use error
- Below are a few commands to help you stop any containers:
  - List all Docker processes with: **docker ps -a**
  - Stop and remove all Docker processes:  
**docker stop <container\_id>**  
**docker rm <container\_id>**
  - List and delete all the local Docker images:  
**docker images**  
**docker rmi <image-id>**

# Running the Containers from the Registry

- In Cloud Shell, run the case study directly from the container registry
  - Refer back to the last activity for the Docker run commands
  - Use the URL to the images in Docker Hub for the image names
  - For example, your run commands will look similar to:

```
docker run -d -p 8082:8082 -e SERVICE_PORT=8082 your-docker-hub-id/internal:v1.0
```

```
docker run -d -p 8080:8080 -e SERVER=http://localhost:8082 --network=host  
your-docker-hub-id/external:v1.0
```

- Test your app by previewing on port 8080

# Success!

- **Congratulations!** You have successfully stored images in a container registry.