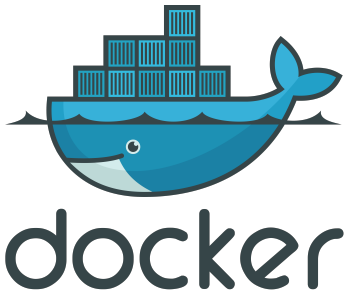
1 Resources



- **Github Repo**:
  `https://bit.ly/3qJtZOX`
- **DockerHub Repo**:
  `https://dockr.ly/344M828`
- **Command Cheatsheet**:
  `https://bit.ly/3pK6lme`
- **DockerHub**:
  `https://hub.docker.com`

2 Terms

- **Registry**: The storage location for images (think like Github), most popular is DockerHub, but private registries can be made
- **Image**: An immutable version of a "stack", defined as the software stack required for the particular file.
- **Container**: The currently executing image, that has state added.
- **Dockerfile**: A file that describes how an image should be created
- **Docker Compose File**: A .yml file that describes how a collection of images should be invoked

3 Common Commands

3.1 Executing Containers

- `docker run [container_name]` : Runs a container, non-daemon
- `docker run -d [container_name]` : Runs a container, daemon
- `docker-compose up <-d>` : Runs a compose collection, optional daemon

3.2 Investigating Containers

- `docker ps` : Lists running containers
- `docker logs [container_name_or_hash]` : Runs a container, non-daemon

3.3 Killing/Cleanup of Containers

- `docker kill [container_name_or_hash]` : Kills a container
- `docker-compose down` : Stops a compose collection
- `docker rm` : Removes a stopped container (kept around due to daemon)

3.4 Working with Images

- `docker images` : Lists available images
- `docker pull [image_name]` : Pulls an image from a repository
- `docker push [image_name]` : Pushes an image
- `docker rmi [image_name_or_hash]` : Removes an image locally