Summary

Docker provides a rich set of actions that can be used to build, run, tag, and push images. Below is a list of handy Docker commands used in practice.

*Note:* In the following commands the following arguments are used:

* OPTIONS - define extra configuration through flags
* IMAGE - sets the name of the image
* NAME- set the name of the image
* COMMAND and ARG - instruct the container to run specific commands associated with a set of arguments

Build Images

To build an image, use the following command, where PATH sets the location of the Dockerfile and referenced application files:

**Run Images**

To run an image, use the following command:

docker run [OPTIONS] IMAGE [COMMAND] [ARG...]

**Get Logs**

To get the logs from a Docker container, use the following command:

docker logs CONTAINER\_ID

Where the CONTAINER\_ID is the ID of the Docker container that runs an application.

**List Images**

To list all available images, use the following command:

docker images

**List Containers**

To list all running containers, use the following command:

docker ps

**Tag Images**

To tag an image, use the following command, where SOURCE\_IMAGE defines the name of an image on the current machine and TARGET\_IMAGE defines the repository, name, and version of an image:

docker tag SOURCE\_IMAGE[:TAG] TARGET\_IMAGE[:TAG]

**Login to DockerHub**

To login into DockerHub, use the following command:

docker login

**Push Images**

To push an image to DockerHub, use the following command:

docker push NAME[:TAG]

**Pull Images**

To pull an image from DockerHub, use the following command:

docker pull NAME[:TAG]