**Docker Container Commands**

Run a command in a new container:

docker run [IMAGE] [COMMAND]

docker run --rm [IMAGE] – removes a container after it exits.

docker run -td [IMAGE] – starts a container and keeps it running.

docker run -it [IMAGE] – starts a container, allocates a pseudo-TTY connected to the container’s stdin, and creates an interactive bash shell in the container.

docker run -it-rm [IMAGE] – creates, starts, and runs a command inside the container. Once it executes the command, the container is removed.

Delete a container (if it is not running):

docker rm [CONTAINER]

Update the configuration of one or more containers:

docker update [CONTAINER]

**Starting and Stopping Containers**

Start a container:

docker start [CONTAINER]

Stop a running container:

docker stop [CONTAINER]

Stop a running container and start it up again:

docker restart [CONTAINER]

Pause processes in a running container:

docker pause [CONTAINER]

Unpause processes in a running container:

docker unpause [CONTAINER]

Block a container until others stop (after which it prints their exit codes):

docker wait [CONTAINER]

Kill a container by sending a SIGKILL to a running container:

docker kill [CONTAINER]

Attach local standard input, output, and error streams to a running container:

docker attach [CONTAINER]

**Docker Image Commands**

Create an image from a Dockerfile:

docker build [URL]

docker build -t – builds an image from a Dockerfile in the current directory and tags the image

Pull an image from a registry:

docker pull [IMAGE]

Push an image to a registry:

docker push [IMAGE]

Create an image from a tarball:

docker import [URL/FILE]

Create an image from a container:

docker commit [CONTAINER] [NEW\_IMAGE\_NAME]

Remove an image:

docker rmi [IMAGE]

Load an image from a tar archive or stdin:

docker load [TAR\_FILE/STDIN\_FILE]

Save an image to a tar archive, streamed to STDOUT with all parent layers, tags, and versions:

docker save [IMAGE] > [TAR\_FILE]

**Docker Commands for Container and Image Information**

Once you set up your containers, you will need to know how to get all the important information for managing them. The following commands will provide details on images and containers on your system.

List running containers:

docker ps

docker ps -a – lists both running containers and ones that have stopped

List the logs from a running container:

docker logs [CONTAINER]

List low-level information on Docker objects:

docker inspect [OBJECT\_NAME/ID]

List real-time events from a container:

docker events [CONTAINER]

Show port (or specific) mapping for a container:

docker port [CONTAINER]

Show running processes in a container:

docker top [CONTAINER]

Show live resource usage statistics of containers:

docker stats [CONTAINER]

Show changes to files (or directories) on a filesystem:

docker diff [CONTAINER]

List all images that are locally stored with the docker engine:

docke image ls

Show the history of an image:

docker history [IMAGE]

**Networks**

List networks:

docker network ls

Remove one or more networks:

docker network rm [NETWORK]

Show information on one or more networks:

docker network inspect [NETWORK]

Connects a container to a network:

docker network connect [NETWORK] [CONTAINER]

Disconnect a container from a network:

docker network disconnect [NETWORK] [CONTAINER]