

Docker Commands

Some helpful commands when using docker.

Daily Commands

Command	Description
docker ps	List all running docker images
docker ps -a	List all running and not running docker images
docker logs -f <container>	Output docker logs (CTRL-C to exit)
docker exec -it <container> bash	Log into a docker image

Information Commands

Command	Description
docker version	Show docker version information
docker info	Docker info
docker inspect <container>	Display information about the container. This command will show you the entrypoint and other useful information.
docker events <container>	Gets events from the container
docker port <container>	Show public facing port of the container
docker top <container>	Show top running processes in the container.
docker stats	Show containers' resource usage.
docker stats <container>	

Container Commands

Commands	Description
docker ps -a	List all containers
docker logs <container_id/name>	Display logs for a container
docker diff <container_id/name>	Show changes to container
docker rm <container_id> <container_id>	Remove a docker container
docker attach <container_id>	Attach to a container. CTR-C to exit
docker run -d -p <ex_port>:<int_port> <image> ex. docker run -d -p 9001:9001 toke/mosquitto	Create container mapping external port to Internal port.
docker run --name <name> -d ... <image>	Create container with a name.
docker start <container_id/name>	Start a container
docker stop <container_id/name>	Stop a container
docker rm <container_id/name>	Remove a stopped container
docker rename <container_name> <new_name>	Rename a container
docker cp CONTAINER:SRC_PATH DEST_PATH	Copies files or folders between a container and the local filesystem.

docker export <container> > out.tar	Turns containers filesystem into a tarball archive stream to STDOUT
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Image Commands

Command	Description
docker images	List all docker images
docker search <partial_image_name>	Searches Repo for images containing the name specified
docker run -i -t ubuntu:12.10 bash	Download ubuntu 12.10 image and run bash
docker pull <image>	Download an image from docker repo
docker inspect <image>	Inspect docker image
docker rmi <image> <image>	Remove one or more images
docker login	Submit an image to docker's repo.
docker push <image>	
docker build -f Dockerfile .	Build a docker image from a Dockerfile
docker commit <containerID> <imageName>	Saves the container to an image
docker save -o image.tar <imageName>	Save an image to a tar file.
docker load -i image.tar	Load an image from a tar file.
docker system prune -a	Remove any stopped containers and all unused images
docker image tag <image> <DOCKER_REPO>/<image> docker push <DOCKER_REPO>/<image>	Tag and push an image to a new container registry.

System Commands

docker system prune -a	Remove any stopped containers and all unused images
docker volume prune	Remove volumes

Advanced Commands

Run Options	Description
-v, --volume=[host-src:]container-dest[:<options>]: ex. docker run -d -p 443:443 --name gitlab --volume=/share/Volume/GITLAB:/var/opt/gitlabgitlab/gitlab-ce	Mount a volume. The comma-delimited `options` are [rw ro], [z Z], [[r]shared [r]slave [r]private], and [nocopy]. The 'host-src' is an absolute path or a name value. If neither 'rw' or 'ro' is specified then the volume is mounted in read-write mode. The `nocopy` modes is used to disable automatic copying requested volume path in the container to the volume storage location. For named volumes, `copy` is the default mode. Copy modes are not supported for bind-mounted volumes. --volumes-from="": Mount all volumes from the given container(s)

Installing a set version of Docker

Command	Description
apt-get install -y -q docker-engine=1.11.1-0~trusty	Install a particular version of docker

References

Reference	URL
Tutorial	https://www.youtube.com/watch?v=JBtWxj9I7zM
Remove docker images, containers and volumes	https://www.digitalocean.com/community/tutorials/how-to-remove-docker-images-containers-and-volumes