Docker for DevOps Engineers

Basic Commands:

docker ps	List running containers
docker exec -it <container name> /bin/sh	SSH into container
docker restart <container name>	Restart a container
docker stats	Show running container stats
docker system df	Check docker daemon disk space usage
docker system prune -af	Remove images, networks, containers, and volumes

Docker Images:

docker build -t <image_name>	Build an Image from a Dockerfile
docker build -t <image_name> . –no-cache	Build an Image from a Dockerfile without the cache
docker images	List local images
docker rmi <image_name>docker image prune	Delete an Image
docker image prune	Remove all unused images

Docker Hub:

docker login -u <username>	Login into Docker
docker push <username>/<image_name>	Publish an image to Docker Hub
docker search <image_name>	Search Hub for an image
docker pull <image_name>	Pull an image from a Docker Hub

Docker Containers:

docker run --name <container_name> <image_name>	Create and run a container from an image, with a custom name:
docker run -p <host_port>:<container_port> <image_name>	Run a container with and publish a container's port(s) to the host.
docker run -d <image_name>	Run a container in the background
docker container stat	View resource usage stats
docker ps --all	List all docker containers (running and stopped):
docker ps	To list currently running containers:
docker inspect <container_name> (or <container_id>)	To inspect a running container:
docker logs -f <container_name>	Fetch and follow the logs of a container:
docker exec -it <container_name> sh	Open a shell inside a running container:
docker rm <container_name>	Remove a stopped container:
docker start|stop <container_name> (or <container-id>)	Start or stop an existing container:

Docker Compose Common commands

Common commands

Starts existing containers for a service.

docker-compose start

Stops running containers without removing them.

docker-compose stop

Pauses running containers of a service.

docker-compose pause

Unpauses paused containers of a service.

docker-compose unpause

Lists containers.

docker-compose ps

Builds, (re)creates, starts, and attaches to containers for a service.

docker-compose up

Stops containers and removes containers, networks, volumes, and images created by up.
docker-compose down