Docker CLI Cheat Sheet - 2

docker top

`docker top CONTAINER`
Use: Lists the running processes of a container

`docker top cont-ubuntu`
It will show processes on host which are running through “cont-ubuntu” container. The PID will be w.r.t host’s process entries.

docker system df

`docker system df [options]`
Use: Display total disk usage by docker
Flag: -f or --format to format, -v for verbose output

`docker system df --verbose=false`
It will show total disk space usage by docker including but not limited to loaded images, running containers and built images.

docker service ps

`docker service ps [options] SERVICE`
Use: List the tasks of one or more services.

`docker service ps --no-trunc mysql`
It will list out all tasks with their non-truncated task IDs of mysql service.

docker service scale

`docker service scale SERVICE=REPLICAS`
Use: Scales one or more replicated services on Swarm

`docker service scale backend=5`
It will scale up or scale down a service called “backend” to make sure that it has exactly 5 replicas on the swarm cluster.

docker-compose version

`docker-compose version`
Use: Prints compose version and exits

docker-compose up

`docker-compose up [option] [FILENAME]`
Use: Create and start resources
Flag: -f to use a filename

`docker-compose up`
The command can work as it is. It will look for a file called **“docker-compose.yaml”** and will create and run all of the services and resources mentioned within the docker-compose.yaml file. Alternatively, you can guide it to use another file using –f flag.

docker-compose down

The command can work as it is. It will stop and remove all of the resources created by docker compose including containers, networks and volumes.

docker-compose logs

`docker-compose logs [OPTIONS] [FILENAME]`
Use: Pushes local image to Docker hub
Flags: -f for filename, --log-level (DEBUG, INFO, WARNING, ERROR, CRITICAL)

`docker-compose logs --log-level ERROR –f a.yaml`
It will set the log level of containers created from a.yaml to ERROR and will display those logs. In other words, it will show the error logs of container created from a.yaml using docker compose.

docker swarm init

`docker swarm init [options]`
Use: Executes the created container with the command as mentioned.

`docker container exec cont-Ubuntu printenv`
It will run cont-ubuntu container with printenv command

docker swarm join

`docker swarm join [options] HOST:PORT`
The command can work as it is. It will be used to join a swarm cluster as a node and/or manager.

docker service update

`docker service update [options] SERVICE`
Use: Updates a running service.

`docker service update --image httpd my-svc`
It will replace the original docker image of my-svc service with new docker image “httpd”.

docker service rollback

`docker service rollback [options] SERVICE`
Use: Revert the mentioned configuration changes on a service
Flag: -d to detach immediately after the command and let service revert in background

`docker service rollback -d backend`
It will bring the number of replicas of “backend” back from 5 to what it used to be before previous command (in this case, upper command).