# **Docker Cheat-Sheet**

sudo usermod -aG docker \$USERdocker versionto run command as a non-root user.shows the installed docker version

♣ service docker start : start docker service

### Basic info

♦ docker ps : lists only running containers

♦ docker ps -a : shows all containers includes created, running, exited.

❖ docker images -a
 ∴ lists all images created
 ∴ shows the logs of container

♦ docker inspect : view detail information about a image or a container

docker stats
 view resource usage statistics for one or more containers
 docker port
 : list the port mappings for a container

docker top : to view the processes inside a container

## Manage images and containers

✓ docker build -t [tag name] [directory] : build a new docker image

✓ docker run [image] : starts a new container from an image

✓ docker run --name [container] [image] : assign a name of container
✓ docker run -d [image] : starts a container in backend

✓ docker run -p [Hostport:Containerport] [image] : map all ports to container

✓ docker run -it [image] : interact with the image through command

line

✓ docker run -e [my Var=my prop] [image] : specify an environmental variable for a

docker container

✓ docker exec -it [container-ID/name] [executable] : start a shell or entering inside a running

container

✓ docker rename [old name] [newname] : rename the container

✓ docker save [image] > [archive file] or

✓ docker save -o [archive file] [image] : save an image to a tar archive

✓ docker commit [image] [image name] : save a running docker container as an

image

✓ docker load -i [archive file] : load an image to a tar archive ✓ docker start [container] : start the exited container

✓ docker stop [container] : stop the running container

✓ docker kill [container] : forced shutdown of running container

✓ docker rm : delete the exited container

✓ docker rm -f : deleted running container forcefully &

dangling containers

✓ docker rm \$(docker ps -a -q) : removes all running container ✓ docker rmi [image] : removes a docker image

✓ docker rmi \$(docker images -q) : removes a docker images

✓ docker system prune : removes all dangling containers, unused

images and containers

✓ docker login : login cli session with registry like Docker

hub using credentials

✓ docker remote -v : lists out remote docker host

✓ docker push [username/repository: tag] : upload images to registry

✓ docker tag [image] [username/repository: tag] : set the tag for images pushed to Docker

hut

✓ docker pull [username/repository: tag] : download images from registry

## **Docker-Compose, Volumes & Network**

> docker compose build : build containers running from a

directory of your docker-compose.yml file

➤ docker compose up -d : start multiple containers at once

docker compose down : stop all running containers and also

remove them

➤ docker compose logs : shows the logs of running

containers with docker compose

➤ docker compose -d --scale up [service]=[no. of times] : scale up the services or containers

with limited times as prescribed in Yaml file

by docker service [service] --replicas [no. of times] [image]: autoscaling services with set

number of times

➤ docker volume create [volume] : create a volume in the machine

by docker run -v [HostDir:TargetDir] -it [container] [image]: connect a container to a volume or

mapping local directory with a docker container

➤ docker volume rm [volume] : remove unused volume from

machine

docker volume lsdocker volume inspect [volume]: inspects the volume

### Docker Swarm

o docker swarm init : enable first node of docker system

o docker swarm join --token [token] --listen -addr [ip:port] : add a node to a swarm cluster

o docker swarm join-token : retrieve the join token

o docker node ls : list nodes in a cluster

o docker node rm [node-name] : remove a node from swarm cluster

o docker service ls : list services in docker swarm

o docker service ps [service] : list containers in a service

o docker service rm [service] : remove a service