**Docker Cheat Sheet**

**Docker Process Management**

#Show the All Running docker container

docker ps

#Show all docker container

docker ps -a

#Run a container

docker run <image>:<tag>

#Run a container and connect to it

docker run -it <image>:<tag>

#Run a container in background

docker run -d <image>:<tag>

#Stop a container

docker stop <container>

#kill a container

docker kill <container>

**Docker Image and Repository**

#List of available local image

docker images

#Search for docker images

docker search <image>

#Pull a docker image

docker pull <image>

#Build a docker image with a dockerfile

docker build -it <image>:<tag> <run\_directory> -f <dockerfile>

#Login to remote repository

docker login <repository>

#Push an Image to docker remote repository

docker push <image>:<tag>

#Push an Image to docker remote repository

docker push <image>:<tag>

#Remove a local docker image

docker rmi <image>:<tag>

#Remove all unused docker image

docker image prune

#Show meta data for an image

docker inspect <image>

**Docker Volume and Ports**

#List of volume

docker volume ls

#Create a volume

docker volume create <volume>

#Delete a volume

docker volume rm <volume>

#Show the volume meta data

docker volume inspect <volume>

#Delete all the volume not attached to a container

docker volume prune

#Mount a local directory to your container

docker run -v <local\_dir>:<container\_dir> <image>

#Copy a file or folder from a docker container to host machine

docker <container>:<container\_dir> <local\_dir>

#Copy a file or folder from a local machine into a

docker < local\_dir >:< container> <container\_dir>

#Map a local port to a docker instance

Docker run -d -p 127.0.0.1:<local\_port>:<docker\_port> <images>

#List the port a docker container is running on

Docker port <container>

**Docker Troubleshooting**

#Show the log of container

docker loges <container>

#Follow/tail the loges of a container

docker loges -f <container>

#Show the timestamp on container

docker loges -t <container>

#Show details/meta data of container

docker inspect <container>

#Show the ‘Top’ view of processes running on container

docker top <container>

#Show a ‘top’ view of all docker container

docker stats

#Show any files that have changed science startup

docker diff <container>

#Connect to already running container

docker attach <container>

#Connect to an already running container

docker attach <container>

#Execute a command on a container

docker exec -it <container\_id> /bin/bash

#Show docker system wide information

docker system info

#Show docker disk space used

docker system df

**Docker Composes**

#Start your docker composes define resources in detached mode

docker-compose up -d -f <docker\_compose\_yaml>

#Stop all docker composes resources

docker-compose stop

#Destroy all docker compose recourses

docker-compose down

#show docker compose process

docker-compose ps

#show docker compose log

docker-compose loges

#show docker compose resource consumption

docker-compose top