# 1 Docker CheatSheet

## **KUBERNETES**

• PDF Link: cheatsheet-docker-A4.pdf

ullet Blog URL: https://cheatsheet.dennyzhang.com/cheatsheet-docker

• Category: tools

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### 1.1 Docker Compose

Name	Summary
Change entrypoint to run nothing	<pre>entrypoint: ["tail", "-f", "/dev/null"]</pre>
Change restart policy	restart: always
Mount file as volume	<pre>\$PWD/httpd/httpd.conf:/usr/local/apache2/conf/httpd.con</pre>
Start compose env	docker-compose up, docker-compose up -d
Stop compose env	docker-compose down, docker-compose down -v
Check logs	docker-compose logs

#### Links:

https://docs.docker.com/compose/compose-file/#restart\_policy

### 1.2 Resource Reference

Name	Summary
Docker SDK	https://docs.docker.com/develop/sdk/examples/
Docker REST API	https://docs.docker.com/engine/api/v1.27/#tag/Container

### 1.3 Check Containers

Name	Summary
Tail container logs	docker logstail 5 \$container_name
Check container healthcheck status	<pre>docker inspectformat '{{.State.Health}}' \$container</pre>

### 1.4 Container Basic

Name	Summary
Start docker container	docker run -p 4000:80 imgname
Start docker container in detached mode	docker run -d -p 4000:80 imgname
Enter a running container	docker exec -it [container-id] sh
List containers	docker ps
List all containers	docker ps -a
List containers by labels	docker psfilter "label=org.label-schema.group"
Stop container	docker stop <hash></hash>
Remove container	docker rm <hash></hash>
Remove all containers	docker rm \$(docker ps -a -q)
Force shutdown of one given container	docker kill <hash></hash>
List all images	docker images -a
Login to docker hub	docker login
Tag <image/>	docker tag <image/> username/repo:tag
Docker push a tagged image to repo	docker push username/repo:tag
Run image from a given tag	docker run username/repo:tag
Create docker image	docker build -t denny/image:test .

• Docker build

cd "\$dir" && cat "\$dockerfile" | docker build -t "\$docker\_image" -f - .

### 1.4.1 Use google docker registry

```
docker build -t gcr.io/<MY_REPO>/<MY_IMAGE>:<MY_TAG> .
gcloud docker -- push gcr.io/<MY_REPO>/<MY_IMAGE>:<MY_TAG>
```

### 1.5 Cleanup

Name	Summary
Remove the specified image	docker rmi <imagename></imagename>
Remove all docker images	docker rmi \$(docker images -q)
Remove orphaned docker volumes	<pre>docker volume rm \$(docker volume ls -qf dangling=true)</pre>
Remove dead containers	docker rm \$(docker psfilter status=dead -qa)

## 1.6 Scripts

• Delete all containers

```
delete-all-containers.sh
```

curl -L https://raw.githubusercontent.com/dennyzhang/cheatsheet-docker-A4/master/delete

• Install test kit

container-install-devkit.sh

```
apt-get -y update
apt-get install -y curl netcat
```

curl -L https://raw.githubusercontent.com/dennyzhang/cheatsheet-docker-A4/master/contag

• Clean up Disk

Remove All Useless Resources.

```
docker ps --filter status=exited -aq | xargs -r docker rm -v
```

Remove unused docker images

```
docker rmi $(docker images | grep "<none>" | awk -F' ', '{print $3}')
```

Remove intermediate containers generated during docker build

```
docker ps -a | grep "/bin/sh -c" | awk -F' ' '{print $1}' | xargs docker rm Remove Image with <none> string
```

```
echo "Remove docker images with <none> string"
if docker images | grep none | tee; then
   docker rmi $(docker images | grep "<none>" | awk -F' ' '{print $3}') | tee
fi
```

#### 1.7 More Resources

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