# Docker学习笔记

# 环境搭建

## 参考链接：

<https://docs.docker.com/>

<https://docs.docker.com/install/linux/docker-ce/centos/#install-using-the-convenience-script>

## 安装

目前采用Most users [set up Docker’s repositories](https://docs.docker.com/install/linux/docker-ce/centos/#install-using-the-repository) and install from them, for ease of installation and upgrade tasks. This is the recommended approach.此方式

安装依赖包：

yum install -y yum-utils \

device-mapper-persistent-data \

lvm2

配置仓库：

yum-config-manager \

--add-repo \

https://download.docker.com/linux/centos/docker-ce.repo

安装

yum install docker-ce

启动

systemctl start docker

运行hello world

docker run hello-world

## 非root管理docker

# systemctl enable docker

# usermod -aG docker $USER

$ docker run hello-world

## 配置开机启动

systemctl enable docker – 开启开机启动

systemctl disable docker

# 常用命令

## Docker

docker –version

docker info

docker run hello-world

docker image ls

docker container ls --all

## Recap and cheat sheet

## List Docker CLI commands

docker

docker container --help

## Display Docker version and info

docker --version

docker version

docker info

## Execute Docker image

docker run hello-world

## List Docker images

docker image ls

## List Docker containers (running, all, all in quiet mode)

docker container ls

docker container ls --all

docker container ls –aq

## 附加常用命令

# 查看docker 信息

docker inspect ${containerId}

# 进入容器

docker exec -it ${containerID} /bin/bash

# 宿主机拷贝到容器：

docker cp sourcePath ${containerId}:destinationPath

# 容器拷贝到宿主机：

docker cp ${containerId}:destinationPath sourcePath

# 保存一个image

docker save -o ./workspace/docker/tomcat0.1.tar tomcat:0.1

docker save -o destinationPath imageName

# 加载一个文件到image

docker load -i sourcePath

# docker hub

<https://hub.docker.com/explore/>

选择官方镜像，进行配置

## 安装配置Tomcat

参考链接：

<https://hub.docker.com/_/tomcat/>

Docker Pull Command

$ docker pull tomcat

启动：

$ docker run -it --rm -p 8888:8080 tomcat

## 安装配置CentOS

参考链接：

<https://hub.docker.com/_/centos/>

Docker Pull Command

$ docker pull centos

运行

docker run centos

查看ID

docker container ls