# Docker安装

<https://docs.docker.com/engine/install/centos/>

## 卸载旧的docker

yum remove docker \

docker-client \

docker-client-latest \

docker-common \

docker-latest \

docker-latest-logrotate \

docker-logrotate \

docker-engine

## 安装yum-utils工具包

yum install -y yum-utils

## 使用国内的镜像源

yum-config-manager --add-repo http://mirrors.aliyun.com/docker-ce/linux/centos/docker-ce.repo

## 安装docker引擎

yum install -y docker-ce docker-ce-cli containerd.io docker-compose-plugin

## 启动docker并设为开机自启动

systemctl start docker

systemctl enable docker

## 验证docker

docker run hello-world

## 配置阿里云镜像加速

登录阿里云，进入控制台，搜索“容器镜像服务”

图形用户界面, 应用程序

描述已自动生成

# Docker-compose安装

## 下载安装文件

<https://github.com/docker/compose/releases/download/v2.6.0/docker-compose-linux-x86_64>

## 拷贝到/usr/local/bin下面

mv docker-compose-linux-x86\_64 docker-compose

chmod +x docker-compose

# Docker运行springboot项目

## Dockerfile

from java:8  
copy demo-0.0.1-SNAPSHOT.jar /demo.jar  
expose 8888  
entrypoint ["java", "-jar", "/demo.jar"]

## 上传

把dockerfile和demo-0.0.1-SNAPSHOT.jar上传到虚拟机

## 打镜像

docker build -t demo .

## 启动容器

docker run -d -p 8888:8888 -v /usr/local/springboot/demo:/demo demo

# Docker-compose运行springboot项目

## docke-compose.yml

version: "3"

services:

demo:

# image: java:8

build: ./

restart: always

container\_name: demo

hostname: demo

volumes:

- "./logs/:/tmp/skywalking-logs/logback/"

network\_mode: "host"

environment:

- "key=value"

## 启动

docker-compose up -d 启动所有

docker-compose up -d demo 只启动demo

## 停止

docker-compose down停止所有

docker-compose down demo 只停止demo

# Docker-Swarm运行springboot

## 新建docker-swarm配置文件

vi sb-prom-stack.yml

version: "3"

services:

sbprometheus:

image: demo:latest

networks:

- my-network

deploy:

restart\_policy:

condition: on-failure

networks:

my-network:

external: true

## 启动

## 初始化manager节点

docker swarm init --advertise-addr 192.168.229.131

## 创建网络

docker network create --driver overlay my-network

## 启动服务

docker stack deploy -c sb-prom-stack.yml sbprom

查看

docker stack ps sbprom

docker service ls

docker service update --publish-add 8888:8888 m8z72juslbuh

浏览器访问：<http://192.168.229.131:8888/actuator/prometheus>

## 修改prometheus的配置

vi prometheus.yml

- job\_name: 'sb\_swarm'

metrics\_path: '/actuator/prometheus'

file\_sd\_configs:

- files:

- /usr/local/prometheus-2.35.0/swarm.yml

cat swarm.yml

- targets: ['192.168.229.131:8888']

【注意】

<https://docs.docker.com/config/daemon/prometheus/>

图形用户界面, 文本, 应用程序, 电子邮件

描述已自动生成