

基础环境运维索引

容器概述

通过使用容器技术，将操作系统、应用程序全部打包为独立可执行镜像，镜像存储在镜像仓库，服务升级后，采取一个新的tag来标签区别镜像的版本。镜像包括了可以完整运行应用程序需要的操作系统环境、中间件环境，只

下图为一个典型的安装部署架构，底层iaas提供vm虚拟化支持，通过基础容器平台与容器编排平台提供自动化部署，对一些标准的组件进行快速部署，对业务系统进行安装部署支持。

本文采用的容器引擎为**docker,**容器编排工具为**k8s,**编排可视化为**rancher**

安装部署docker

https://iovhm.com/book/books/k8s/page/docker

安装部署k8s

根据情况，选择最合适你的版本，本文推荐使用最新版，但是经过实践，v1.20.15为最稳定版本

v1.20.15：https://iovhm.com/book/books/k8s/page/k8s-v12015

v1.28.0：https://iovhm.com/book/books/k8s/page/k8s-v1280

k8s https://kubernetes.io/zh-cn/docs/setup/

rancher

https://iovhm.com/book/books/k8s/page/rancher

rancher k8s v1.20.15 k8s rancher v2.5.17, k8s v2.7.9

rancher k8s https://www.suse.com/suse-rancher/support-matrix/all-supported-versions/rancher-v2-7-9/

rancher https://github.com/rancher/rancher/releases

rancher https://ranchermanager.docs.rancher.com/zh/

docker-compose

https://iovhm.com/book/books/k8s/page/docker-compose

nfs

https://iovhm.com/book/books/42e7a/page/nfs

rancher

v2.5.17 https://iovhm.com/book/books/k8s/page/rancher-2515

v2.7.9 https://iovhm.com/book/books/k8s/page/rancher27

k8s docker-compose

- mysql https://iovhm.com/book/books/42e7a/page/mysql
- nginx https://iovhm.com/book/books/42e7a/page/nginx
- minio https://iovhm.com/book/books/42e7a/page/miniodocker-compose
- redis https://iovhm.com/book/books/42e7a/page/redis
- postgreSQL https://iovhm.com/book/books/42e7a/page/repmgrpostgresql
- mongodb https://iovhm.com/book/books/42e7a/page/docker-composemogodb
- nexus https://iovhm.com/book/books/42e7a/page/docker-compose-nexus

- rabbitMQ：https://iovhm.com/book/books/42e7a/page/docker-composerabbitmq
- elasticsearch：https://iovhm.com/book/books/42e7a/page/elasticsearch

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- pritunl-vpn：pritunl-vpn

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