# Redhat 7.4上Docker测试

## 环境准备

1. 下载已经编译出来的在arm64上可运行的docker：

<http://code.huawei.com/docker/docker-install/tree/huawei-1.11.2>

注：也可以自己编译，上面的地址需要在黄区访问，蓝区需要自己编译，需自行google，亦或者找hulk团队docker组协助。

1. 下载后解压arm64目录里的压缩包并拷贝到/usr/bin下，然后把里面的docker-1.11.2重命名为docker
2. 启动docker服务：

# docker deamon –D

1. 拷贝一个可用的docker镜像，现成的镜像也在黄区：

[nrm@10.175.102.38:/home/nrm/git/linux/ubuntu.tar](mailto:nrm@10.175.102.38:/home/nrm/git/linux/ubuntu.tar) 密码nrm

## 2. 运行docker

1） 加载docker镜像：

# docker load -i ubuntu.tar

2） 查看docker镜像：

# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

x1 x2 x3 x4 x5

# docker run –ti x1:x2 bash

(docker中执行命令为bash，也可以指定其他命令)

注：可以使用该镜像起多个docker，但docker重启以后，就都不存在了。但可以加--restart

=always参数，那么下次启动还会自动加载，里面的修改也会保留。

3） 如果不想直接进入docker虚拟机，则可以使用-tid后台运行，并且通过下面命令进入docker，诸如：

# docker exec –ti x4 bash

4） 查看docker虚拟机：

# docker ps

## 3. 使用源进行安装

除了直接拷贝编译好的docker，当前使用源进行安装自然是更好的。目前centos的源里有docker，用它来安装：

1. 源配置：（有些配置可能需要改，具体以实际使用为准）

[root@localhost ~]# cat /etc/yum.repos.d/CentOS-Base.repo

# CentOS-Base.repo

#

# The mirror system uses the connecting IP address of the client and the

# update status of each mirror to pick mirrors that are updated to and

# geographically close to the client. You should use this for CentOS updates

# unless you are manually picking other mirrors.

#

# If the mirrorlist= does not work for you, as a fall back you can try the

# remarked out baseurl= line instead.

#

#

[base]

name=CentOS-$releasever - Base

baseurl=http://mirror.centos.org/altarch/$releasever/os/$basearch/

gpgcheck=1

gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-7

file:///etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-7-aarch64

#released updates

[updates]

name=CentOS-$releasever - Updates

baseurl=http://mirror.centos.org/altarch/$releasever/updates/$basearch/

gpgcheck=1

gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-7

file:///etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-7-aarch64

#additional packages that may be useful

[extras]

name=CentOS-$releasever - Extras

baseurl=http://mirror.centos.org/altarch/$releasever/extras/$basearch/

gpgcheck=1

gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-7

file:///etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-7-aarch64

[root@localhost ~]# cat /etc/yum.repos.d/CentOS-Sources.repo

# CentOS-Sources.repo

#

# The mirror system uses the connecting IP address of the client and the

# update status of each mirror to pick mirrors that are updated to and

# geographically close to the client. You should use this for CentOS updates

# unless you are manually picking other mirrors.

#

# If the mirrorlist= does not work for you, as a fall back you can try the

# remarked out baseurl= line instead.

#

#

[base-source]

name=CentOS-$releasever - Base Sources

baseurl=http://vault.centos.org/centos/$releasever/os/Source/

gpgcheck=1

enabled=0

gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-7

#released updates

[updates-source]

name=CentOS-$releasever - Updates Sources

baseurl=http://vault.centos.org/centos/$releasever/updates/Source/

gpgcheck=1

enabled=0

gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-7

#additional packages that may be useful

[extras-source]

name=CentOS-$releasever - Extras Sources

baseurl=http://vault.centos.org/centos/$releasever/extras/Source/

gpgcheck=1

enabled=0

gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-7

[altarch-source]

name=CentOS-$releasever - AltArch Specific Sources

baseurl=http://vault.centos.org/altarch/$releasever/os/Source

enabled=0

gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-7-aarch64

1. 安装需要的包

# yum install -y docker docker-client docker-common

1. 启动docker

# docker start

Redirecting to /bin/systemctl start docker.service

1. 查看docker状态

# docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

# docker version

Client:

Version: 1.12.6

API version: 1.24

Package version: docker-1.12.6-48.git0fdc778.el7.aarch64

Go version: go1.8.3

Git commit: 0fdc778/1.12.6

Built: Fri Sep 8 16:40:30 2017

OS/Arch: linux/arm64

Server:

Version: 1.12.6

API version: 1.24

Package version: docker-1.12.6-48.git0fdc778.el7.aarch64

Go version: go1.8.3

Git commit: 0fdc778/1.12.6

Built: Fri Sep 8 16:40:30 2017

OS/Arch: linux/arm64

1. 下载docker镜像并启动测试

# docker pull ubuntu

Using default tag: latest

Trying to pull repository docker.io/library/ubuntu ...

latest: Pulling from docker.io/library/ubuntu

aa17bdeb0d8a: Pull complete

9de9f461273e: Pull complete

fb43b74b44a7: Pull complete

ebae2b3d5795: Pull complete

318bffa324ea: Pull complete

Digest: sha256:7c67a2206d3c04703e5c23518707bdd4916c057562dd51c74b99b2ba26af0f79

# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

docker.io/ubuntu latest 1c4d4d167c58 3 weeks ago 113.6 MB

# docker run -ti docker.io/ubuntu bash

root@71e80d7e1bd4:/# ls

bin boot dev etc home lib media mnt opt proc root run sbin srv sys tmp usr var

root@71e80d7e1bd4:/# top

top - 02:33:40 up 19:38, 0 users, load average: 0.43, 0.14, 0.05

Tasks: 2 total, 1 running, 1 sleeping, 0 stopped, 0 zombie

%Cpu(s): 0.0 us, 0.0 sy, 0.0 ni,100.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st

KiB Mem : 20029619+total, 18768857+free, 7462784 used, 5144832 buff/cache

KiB Swap: 4194240 total, 4194240 free, 0 used. 17447020+avail Mem

PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND

1 root 20 0 4352 3840 2752 S 0.0 0.0 0:00.05 bash

12 root 20 0 6784 4800 2688 R 0.0 0.0 0:00.03 top