docker课程笔记

实验环境：rhel7.3，IP地址192.168.4.1，关闭防火墙、SELinux、配置好yum待用

##chroot实验

[root@localhost chroot]# mkdir /var/chroot

[root@localhost ~]# cd /var/chroot/

[root@localhost chroot]# cp -r /bin/ .

[root@localhost chroot]# cp -r /sbin/ .

[root@localhost chroot]# cp -r /lib .

[root@localhost chroot]# cp -r /lib64/ .

[root@localhost chroot]# mkdir usr

[root@localhost chroot]# cp -r /usr/\* usr/

[root@localhost chroot]# ls

bin lib lib64 sbin usr

[root@localhost chroot]# touch 1.txt

[root@localhost chroot]# chroot /var/chroot/

bash-4.2# ls

1.txt bin lib lib64 sbin usr

bash-4.2# pwd

/

bash-4.2#

#安装docker

[root@localhost ~]# cd software/

[root@localhost software]# ls docker

docker-engine-1.12.1-1.el7.centos.x86\_64.rpm

docker-engine-selinux-1.12.1-1.el7.centos.noarch.rpm

docker\_images

docker\_images.zip

[root@localhost software]# cd docker/

[root@localhost docker]# yum -y install docker

docker-engine-1.12.1-1.el7.centos.x86\_64.rpm

docker-engine-selinux-1.12.1-1.el7.centos.noarch.rpm

docker\_images/

[root@localhost docker]# yum -y install docker\*.rpm

#启动docker

[root@localhost docker]# systemctl restart docker

[root@localhost docker]# docker search busybox

NAME DESCRIPTION STARS OFFICIAL AUTOMATED

busybox Busybox base image. 1166 [OK]

progrium/busybox 66 [OK]

hypriot/rpi-busybox-httpd Raspberry Pi compatible Docker Image with ... 39

radial/busyboxplus Full-chain, Internet enabled, busybox made... 17 [OK]

hypriot/armhf-busybox Busybox base image for ARM. 8

armhf/busybox Busybox base image. 4

arm32v7/busybox Busybox base image. 3

s390x/busybox Busybox base image. 2

aarch64/busybox Busybox base image. 2

p7ppc64/busybox Busybox base image for ppc64. 2

onsi/grace-busybox 2

armel/busybox Busybox base image. 2

prom/busybox Prometheus Busybox Docker base images 2 [OK]

i386/busybox Busybox base image. 1

ppc64le/busybox Busybox base image. 1

arm32v6/busybox Busybox base image. 1

flynn/busybox Busybox from Ubuntu 13.10 with libc 1

spotify/busybox Spotify fork of https://hub.docker.com/\_/b... 1

trollin/busybox 0

cfgarden/garden-busybox 0

concourse/busyboxplus 0

amd64/busybox Busybox base image. 0

arm64v8/busybox Busybox base image. 0

yauritux/busybox-curl Busybox with CURL 0

ddn0/busybox fork of official busybox 0 [OK]

#下载镜像

[root@localhost docker]# docker pull busybox

Using default tag: latest

latest: Pulling from library/busybox

0ffadd58f2a6: Pull complete

Digest: sha256:bbc3a03235220b170ba48a157dd097dd1379299370e1ed99ce976df0355d24f0

Status: Downloaded newer image for busybox:latest

[root@localhost docker]# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

busybox latest 6ad733544a63 6 weeks ago 1.129 MB

centos-master latest 2e4a8e2c1730 15 months ago 532.6 MB

centos-minion latest 67924c233beb 16 months ago 509.2 MB

ubuntu-minion latest 77c3b335d9be 16 months ago 292.5 MB

#导出镜像

[root@localhost docker]# cd docker\_images/

[root@localhost docker\_images]# docker save busybox > busybox.tar

[root@localhost docker\_images]# ls

busybox.tar docker\_images

#导入镜像

[root@localhost docker\_images]# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

[root@localhost docker\_images]# ls

busybox.tar docker\_images

[root@localhost docker\_images]# docker load <busybox.tar

0271b8eebde3: Loading layer 1.338 MB/1.338 MB

Loaded image: busybox:latest32.77 kB/1.338 MB

[root@localhost docker\_images]# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

busybox latest 6ad733544a63 6 weeks ago 1.129 MB

#导入docker\_img.zip所有镜像

[root@localhost docker\_images]# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

busybox latest 6ad733544a63 6 weeks ago 1.129 MB

[root@localhost docker\_images]# for i in \*;do docker load <${i};done

0aeb287b1ba9: Loading layer 204.3 MB/204.3 MB

Loaded image: centos:latest 557.1 kB/204.3 MB

142a601d9793: Loading layer 128.9 MB/128.9 MB

02242f393343: Loading layer 4.68 MB/4.68 MB

c17207e9e75f: Loading layer 9.56 MB/9.56 MB

1fe768d88d63: Loading layer 2.048 kB/2.048 kB

Loaded image: haproxy:latest 512 B/2.048 kB

9dec0800bdd4: Loading layer 228.6 MB/228.6 MB

c89781d4078a: Loading layer 91.13 MB/91.13 MB

03ea187b81bc: Loading layer 1.536 kB/1.536 kB

bd87edca169e: Loading layer 5.12 kB/5.12 kB

Loaded image: mysql/mysql-server:latest12 kB

e9cdd82e0563: Loading layer 344.6 kB/344.6 kB

c64fa33b0aa0: Loading layer 4.32 MB/4.32 MB

9639fe0885c5: Loading layer 1.536 kB/1.536 kB

7f3fd50a2f36: Loading layer 33.83 MB/33.83 MB

a18796ba7e8e: Loading layer 25.09 kB/25.09 kB

bd4f538343b4: Loading layer 3.584 kB/3.584 kB

5b96be35ffe6: Loading layer 223.2 MB/223.2 MB

46b838f17a57: Loading layer 5.12 kB/5.12 kB

23e96a9fc1fd: Loading layer 7.168 kB/7.168 kB

c0ae803d49fa: Loading layer 1.536 kB/1.536 kB

Loaded image: mysql:latestr 512 B/1.536 kB

40e298e9673a: Loading layer 60.57 MB/60.57 MB

8d8bfe3cd5e4: Loading layer 3.584 kB/3.584 kB

Loaded image: nginx:latestr 512 B/3.584 kB

ca73e27525f7: Loading layer 198.5 MB/198.5 MB

c9a0778a74b0: Loading layer 3.584 kB/3.584 kB

93573059e70b: Loading layer 13.05 MB/13.05 MB

7e2074632f4f: Loading layer 4.096 kB/4.096 kB

f8041ef2ddd1: Loading layer 32.86 MB/32.86 MB

73e37591025b: Loading layer 9.216 kB/9.216 kB

Loaded image: php:latestyer 512 B/9.216 kB

1cc8aacad4a1: Loading layer 344.6 kB/344.6 kB

40ef78f2da08: Loading layer 41.21 MB/41.21 MB

652c8a715c4f: Loading layer 2.703 MB/2.703 MB

fa4e25f53e04: Loading layer 16.46 MB/16.46 MB

c215f3ad270b: Loading layer 1.536 kB/1.536 kB

644be81b61f9: Loading layer 3.584 kB/3.584 kB

Loaded image: redis:latestr 512 B/3.584 kB

011b303988d2: Loading layer 5.05 MB/5.05 MB

d57f828d06ea: Loading layer 1.631 MB/1.631 MB

a049b9c716b3: Loading layer 27.21 MB/27.21 MB

481c807467a1: Loading layer 3.584 kB/3.584 kB

9b728062fb6d: Loading layer 2.048 kB/2.048 kB

Loaded image ID: sha256:c9bd19d022f6613fa0e3d73b2fe2b2cffe19ed629a426db9a652b597fccf07d4

b2ac5371e0f2: Loading layer 45.18 MB/45.18 MB

3242004f198a: Loading layer 1.291 MB/1.291 MB

6c0ce72ad569: Loading layer 3.584 kB/3.584 kB

3aa267e87e63: Loading layer 166.5 MB/166.5 MB

bcfb53b3ff7c: Loading layer 2.56 kB/2.56 kB

8af33c88e046: Loading layer 5.12 kB/5.12 kB

61b46e5fa1fb: Loading layer 7.327 MB/7.327 MB

db36e9c562c7: Loading layer 127 kB/127 kB

2d389b39a65d: Loading layer 17.4 MB/17.4 MB

93c218386361: Loading layer 2.048 kB/2.048 kB

Loaded image: tomcat:latest 512 B/2.048 kB

c854e44a1a5a: Loading layer 132.8 MB/132.8 MB

8ba4b4ea187c: Loading layer 15.87 kB/15.87 kB

46c98490f575: Loading layer 9.728 kB/9.728 kB

1633f88f8c9f: Loading layer 4.608 kB/4.608 kB

0e20f4f8a593: Loading layer 3.072 kB/3.072 kB

Loaded image: ubuntu:latest 512 B/3.072 kB

[root@localhost docker\_images]# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

busybox latest 6ad733544a63 6 weeks ago 1.129 MB

<none> <none> c9bd19d022f6 14 months ago 33.27 MB

php latest 988e578c487e 14 months ago 362.8 MB

tomcat latest 729a53c7b338 14 months ago 355.3 MB

mysql latest eda6a4884645 14 months ago 383.4 MB

ubuntu latest f753707788c5 14 months ago 127.1 MB

mysql/mysql-server latest 190154079ff8 14 months ago 310.5 MB

nginx latest a5311a310510 14 months ago 181.4 MB

redis latest 1aa84b1b434e 14 months ago 182.8 MB

haproxy latest 024224f87983 15 months ago 137 MB

centos latest 980e0e4c79ec 15 months ago 196.7 MB

##启动容器

[root@localhost ~]# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

busybox latest 6ad733544a63 6 weeks ago 1.129 MB

<none> <none> c9bd19d022f6 14 months ago 33.27 MB

php latest 988e578c487e 14 months ago 362.8 MB

tomcat latest 729a53c7b338 14 months ago 355.3 MB

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redis latest 1aa84b1b434e 14 months ago 182.8 MB

haproxy latest 024224f87983 15 months ago 137 MB

centos latest 980e0e4c79ec 15 months ago 196.7 MB

[root@localhost ~]# docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

[root@localhost ~]# pstree

systemd─┬─ModemManager───2\*[{ModemManager}]

├─NetworkManager─┬─dhclient

│ └─2\*[{NetworkManager}]

├─2\*[abrt-watch-log]

├─abrtd

├─accounts-daemon───2\*[{accounts-daemon}]

├─alsactl

├─at-spi-bus-laun─┬─dbus-daemon

│ └─3\*[{at-spi-bus-laun}]

├─at-spi2-registr───2\*[{at-spi2-registr}]

├─atd

├─auditd─┬─audispd─┬─sedispatch

│ │ └─{audispd}

│ └─{auditd}

├─avahi-daemon───avahi-daemon

├─bluetoothd

├─caribou───2\*[{caribou}]

├─chronyd

├─colord───2\*[{colord}]

├─crond

├─cupsd

├─2\*[dbus-daemon]

├─dbus-launch

├─dconf-service───2\*[{dconf-service}]

├─4\*[dnsmasq]

├─dnsmasq───dnsmasq

├─dockerd─┬─docker-containe───7\*[{docker-containe}]

│ └─11\*[{dockerd}]

├─evolution-calen───5\*[{evolution-calen}]

├─evolution-sourc───2\*[{evolution-sourc}]

├─gconfd-2

├─gdm─┬─Xorg

│ ├─gdm-session-wor─┬─gnome-session─┬─abrt-applet───2\*[{ab+

│ │ │ ├─gnome-settings-───4\*+

│ │ │ ├─gnome-shell─┬─ibus-d+

│ │ │ │ └─6\*[{gn+

│ │ │ ├─gnome-software───3\*[+

│ │ │ ├─nautilus───3\*[{nauti+

│ │ │ ├─rhsm-icon───2\*[{rhsm+

│ │ │ ├─ssh-agent

│ │ │ ├─tracker-extract───13+

│ │ │ ├─tracker-miner-a───2\*+

│ │ │ ├─tracker-miner-f───3\*+

│ │ │ ├─tracker-miner-u───2\*+

│ │ │ └─3\*[{gnome-session}]

│ │ └─2\*[{gdm-session-wor}]

│ └─3\*[{gdm}]

├─geoclue───2\*[{geoclue}]

├─gnome-keyring-d───4\*[{gnome-keyring-d}]

├─gnome-shell-cal───5\*[{gnome-shell-cal}]

├─gnome-terminal-─┬─bash

│ ├─gnome-pty-helpe

│ └─3\*[{gnome-terminal-}]

├─goa-daemon───3\*[{goa-daemon}]

├─goa-identity-se───3\*[{goa-identity-se}]

├─gsd-printer───2\*[{gsd-printer}]

├─gssproxy───5\*[{gssproxy}]

├─gvfs-afc-volume───3\*[{gvfs-afc-volume}]

├─gvfs-goa-volume───2\*[{gvfs-goa-volume}]

├─gvfs-gphoto2-vo───2\*[{gvfs-gphoto2-vo}]

├─gvfs-mtp-volume───2\*[{gvfs-mtp-volume}]

├─gvfs-udisks2-vo───2\*[{gvfs-udisks2-vo}]

├─gvfsd───2\*[{gvfsd}]

├─gvfsd-fuse───5\*[{gvfsd-fuse}]

├─gvfsd-metadata───2\*[{gvfsd-metadata}]

├─gvfsd-trash───2\*[{gvfsd-trash}]

├─ibus-x11───2\*[{ibus-x11}]

├─irqbalance

├─ksmtuned───sleep

├─libvirtd───15\*[{libvirtd}]

├─lsmd

├─lvmetad

├─master─┬─pickup

│ └─qmgr

├─mcelog

├─mission-control───3\*[{mission-control}]

├─packagekitd───2\*[{packagekitd}]

├─polkitd───5\*[{polkitd}]

├─pulseaudio───2\*[{pulseaudio}]

├─rhnsd

├─rhsmcertd

├─rngd

├─rsyslogd───2\*[{rsyslogd}]

├─rtkit-daemon───2\*[{rtkit-daemon}]

├─smartd

├─sshd─┬─sshd───bash───pstree

│ └─sshd───bash

├─systemd-journal

├─systemd-logind

├─systemd-udevd

├─teamviewerd───12\*[{teamviewerd}]

├─tracker-store───7\*[{tracker-store}]

├─tuned───4\*[{tuned}]

├─udisksd───4\*[{udisksd}]

├─upowerd───2\*[{upowerd}]

├─vmtoolsd───{vmtoolsd}

├─vmtoolsd

├─vsftpd

├─wpa\_supplicant

└─xinetd

[root@localhost ~]# docker run -d nginx

aaf6681e376e027d10ff880dfc0e3915847049b14baf3e47f67ba3a36c582166

[root@localhost ~]# pstree

systemd─┬─ModemManager───2\*[{ModemManager}]

├─NetworkManager─┬─dhclient

│ └─3\*[{NetworkManager}]

├─2\*[abrt-watch-log]

├─abrtd

├─accounts-daemon───2\*[{accounts-daemon}]

├─alsactl

├─at-spi-bus-laun─┬─dbus-daemon

│ └─3\*[{at-spi-bus-laun}]

├─at-spi2-registr───2\*[{at-spi2-registr}]

├─atd

├─auditd─┬─audispd─┬─sedispatch

│ │ └─{audispd}

│ └─{auditd}

├─avahi-daemon───avahi-daemon

├─bluetoothd

├─caribou───2\*[{caribou}]

├─chronyd

├─colord───2\*[{colord}]

├─crond

├─cupsd

├─2\*[dbus-daemon]

├─dbus-launch

├─dconf-service───2\*[{dconf-service}]

├─4\*[dnsmasq]

├─dnsmasq───dnsmasq

├─dockerd─┬─docker-containe─┬─docker-containe─┬─nginx───nginx

│ │ │ └─7\*[{docker-con+

│ │ └─9\*[{docker-containe}]

│ └─11\*[{dockerd}]

├─evolution-calen───5\*[{evolution-calen}]

├─evolution-sourc───2\*[{evolution-sourc}]

├─gconfd-2

├─gdm─┬─Xorg

│ ├─gdm-session-wor─┬─gnome-session─┬─abrt-applet───2\*[{ab+

│ │ │ ├─gnome-settings-───4\*+

│ │ │ ├─gnome-shell─┬─ibus-d+

│ │ │ │ └─6\*[{gn+

│ │ │ ├─gnome-software───3\*[+

│ │ │ ├─nautilus───3\*[{nauti+

│ │ │ ├─rhsm-icon───2\*[{rhsm+

│ │ │ ├─ssh-agent

│ │ │ ├─tracker-extract───13+

│ │ │ ├─tracker-miner-a───2\*+

│ │ │ ├─tracker-miner-f───3\*+

│ │ │ ├─tracker-miner-u───2\*+

│ │ │ └─3\*[{gnome-session}]

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├─gnome-shell-cal───5\*[{gnome-shell-cal}]

├─gnome-terminal-─┬─bash

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├─gvfs-gphoto2-vo───2\*[{gvfs-gphoto2-vo}]

├─gvfs-mtp-volume───2\*[{gvfs-mtp-volume}]

├─gvfs-udisks2-vo───2\*[{gvfs-udisks2-vo}]

├─gvfsd───2\*[{gvfsd}]

├─gvfsd-fuse───5\*[{gvfsd-fuse}]

├─gvfsd-metadata───2\*[{gvfsd-metadata}]

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├─mission-control───3\*[{mission-control}]

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├─polkitd───5\*[{polkitd}]

├─pulseaudio───2\*[{pulseaudio}]

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├─vmtoolsd───{vmtoolsd}

├─vmtoolsd

├─vsftpd

├─wpa\_supplicant

└─xinetd

[root@localhost ~]# docker run -it centos bash

[root@c0921ebf625a /]#

[root@c0921ebf625a /]# ping 192.168.4.254

PING 192.168.4.254 (192.168.4.254) 56(84) bytes of data.

64 bytes from 192.168.4.254: icmp\_seq=1 ttl=64 time=0.052 ms

64 bytes from 192.168.4.254: icmp\_seq=2 ttl=64 time=0.060 ms

^C

--- 192.168.4.254 ping statistics ---

2 packets transmitted, 2 received, 0% packet loss, time 999ms

rtt min/avg/max/mdev = 0.052/0.056/0.060/0.004 ms

[root@c0921ebf625a /]# cd /etc/yum.repos.d/

[root@c0921ebf625a yum.repos.d]# ls

CentOS-Base.repo CentOS-Media.repo CentOS-fasttrack.repo

CentOS-CR.repo CentOS-Sources.repo

CentOS-Debuginfo.repo CentOS-Vault.repo

[root@c0921ebf625a yum.repos.d]# rm -rf \*

[root@c0921ebf625a yum.repos.d]# vi development.repo

[root@c0921ebf625a yum.repos.d]# cat development.repo

[rhel7]

name=rhel7

baseurl=ftp://192.168.4.254/pub/iso/rhel7

enabled=1

gpgcheck=0

[root@c0921ebf625a yum.repos.d]# yum clean all; yum repolist

Loaded plugins: fastestmirror, ovl

Cleaning repos: rhel7

Cleaning up everything

Loaded plugins: fastestmirror, ovl

rhel7 | 4.1 kB 00:00

(1/2): rhel7/primary\_db | 3.9 MB 00:00

(2/2): rhel7/group\_gz | 136 kB 00:00

Determining fastest mirrors

repo id repo name status

rhel7 rhel7 4751

repolist: 4751

[root@c0921ebf625a yum.repos.d]# yum -y install net-tools

Loaded plugins: fastestmirror, ovl

Loading mirror speeds from cached hostfile

Resolving Dependencies

--> Running transaction check

---> Package net-tools.x86\_64 0:2.0-0.17.20131004git.el7 will be installed

--> Finished Dependency Resolution

Dependencies Resolved

=======================================================================

Package Arch Version Repository

Size

=======================================================================

Installing:

net-tools x86\_64 2.0-0.17.20131004git.el7 rhel7 304 k

Transaction Summary

=======================================================================

Install 1 Package

Total download size: 304 k

Installed size: 917 k

Downloading packages:

net-tools-2.0-0.17.20131004git.el7.x86\_64.rpm | 304 kB 00:00

Running transaction check

Running transaction test

Transaction test succeeded

Running transaction

Installing : net-tools-2.0-0.17.20131004git.el7.x86\_64 1/1

Verifying : net-tools-2.0-0.17.20131004git.el7.x86\_64 1/1

Installed:

net-tools.x86\_64 0:2.0-0.17.20131004git.el7

Complete!

[root@c0921ebf625a yum.repos.d]# ifconfig

eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500

inet 172.17.0.3 netmask 255.255.0.0 broadcast 0.0.0.0

inet6 fe80::42:acff:fe11:3 prefixlen 64 scopeid 0x20<link>

ether 02:42:ac:11:00:03 txqueuelen 0 (Ethernet)

RX packets 4061 bytes 10255973 (9.7 MiB)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 3474 bytes 232763 (227.3 KiB)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536

inet 127.0.0.1 netmask 255.0.0.0

inet6 ::1 prefixlen 128 scopeid 0x10<host>

loop txqueuelen 1 (Local Loopback)

RX packets 0 bytes 0 (0.0 B)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 0 bytes 0 (0.0 B)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

[root@c0921ebf625a yum.repos.d]# hostname

c0921ebf625a

#进程测试

[root@c0921ebf625a yum.repos.d]# sleep 60

[root@localhost ~]# ps -efww | grep sleep

root 8820 6865 0 14:30 pts/3 00:00:00 sleep 60

root 8823 5987 0 14:30 pts/2 00:00:00 grep --color=auto sleep

##镜像管理

[root@localhost ~]# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

busybox latest 6ad733544a63 6 weeks ago 1.129 MB

<none> <none> c9bd19d022f6 14 months ago 33.27 MB

php latest 988e578c487e 14 months ago 362.8 MB

tomcat latest 729a53c7b338 14 months ago 355.3 MB

mysql latest eda6a4884645 14 months ago 383.4 MB

ubuntu latest f753707788c5 14 months ago 127.1 MB

mysql/mysql-server latest 190154079ff8 14 months ago 310.5 MB

nginx latest a5311a310510 14 months ago 181.4 MB

redis latest 1aa84b1b434e 14 months ago 182.8 MB

haproxy latest 024224f87983 15 months ago 137 MB

centos latest 980e0e4c79ec 15 months ago 196.7 MB

[root@localhost ~]# docker images -q

6ad733544a63

c9bd19d022f6

988e578c487e

729a53c7b338

eda6a4884645

f753707788c5

190154079ff8

a5311a310510

1aa84b1b434e

024224f87983

980e0e4c79ec

[root@localhost ~]# docker history nginx

IMAGE CREATED CREATED BY SIZE COMMENT

a5311a310510 14 months ago /bin/sh -c #(nop) CMD ["nginx" "-g" "daemon 0 B

<missing> 14 months ago /bin/sh -c #(nop) EXPOSE 443/tcp 80/tcp 0 B

<missing> 14 months ago /bin/sh -c ln -sf /dev/stdout /var/log/nginx/ 0 B

<missing> 14 months ago /bin/sh -c apt-key adv --keyserver hkp://pgp. 58.43 MB

<missing> 14 months ago /bin/sh -c #(nop) ENV NGINX\_VERSION=1.11.5-1 0 B

<missing> 15 months ago /bin/sh -c #(nop) MAINTAINER NGINX Docker Ma 0 B

<missing> 15 months ago /bin/sh -c #(nop) CMD ["/bin/bash"] 0 B

<missing> 15 months ago /bin/sh -c #(nop) ADD file:c6c23585ab140b0b32 123 MB

#查看镜像详细信息

[root@localhost ~]# docker inspect nginx

[

{

"Id": "sha256:a5311a310510e5eaff3cfbb22b65d9ce11ddc15e266833909551334d48491921",

"RepoTags": [

"nginx:latest"

],

"RepoDigests": [],

"Parent": "",

"Comment": "",

"Created": "2016-10-12T16:59:50.445962996Z",

"Container": "f1f3bcad98793842af03dc7cf034661d09e23c92ec8d0334da66c83fc3f1f552",

"ContainerConfig": {

"Hostname": "383850eeb47b",

"Domainname": "",

"User": "",

"AttachStdin": false,

"AttachStdout": false,

"AttachStderr": false,

"ExposedPorts": {

"443/tcp": {},

"80/tcp": {}

},

"Tty": false,

"OpenStdin": false,

"StdinOnce": false,

"Env": [

"PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin",

"NGINX\_VERSION=1.11.5-1~jessie"

],

"Cmd": [

"/bin/sh",

"-c",

"#(nop) ",

"CMD [\"nginx\" \"-g\" \"daemon off;\"]"

],

"ArgsEscaped": true,

"Image": "sha256:91d179b509b50a536a70b6b85a5c27a4f2dbb17ae5b382d7f7c49a5d62ef0594",

"Volumes": null,

"WorkingDir": "",

"Entrypoint": null,

"OnBuild": [],

"Labels": {}

},

"DockerVersion": "1.12.1",

"Author": "NGINX Docker Maintainers \"docker-maint@nginx.com\"",

"Config": {

"Hostname": "383850eeb47b",

"Domainname": "",

"User": "",

"AttachStdin": false,

"AttachStdout": false,

"AttachStderr": false,

"ExposedPorts": {

"443/tcp": {},

"80/tcp": {}

},

"Tty": false,

"OpenStdin": false,

"StdinOnce": false,

"Env": [

"PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin",

"NGINX\_VERSION=1.11.5-1~jessie"

],

"Cmd": [

"nginx",

"-g",

"daemon off;"

],

"ArgsEscaped": true,

"Image": "sha256:91d179b509b50a536a70b6b85a5c27a4f2dbb17ae5b382d7f7c49a5d62ef0594",

"Volumes": null,

"WorkingDir": "",

"Entrypoint": null,

"OnBuild": [],

"Labels": {}

},

"Architecture": "amd64",

"Os": "linux",

"Size": 181417015,

"VirtualSize": 181417015,

"GraphDriver": {

"Name": "devicemapper",

"Data": {

"DeviceId": "64",

"DeviceName": "docker-8:3-34444592-5bdb863c595c48d045026f19554977a407daa4edb649026812d69089ceaeb8ed",

"DeviceSize": "10737418240"

}

},

"RootFS": {

"Type": "layers",

"Layers": [

"sha256:142a601d97936307e75220c35dde0348971a9584c21e7cb42e1f7004005432ab",

"sha256:40e298e9673a7338ff124716814cef22c7e11088da01724fe3008474468031c3",

"sha256:8d8bfe3cd5e42416ae2d22b3b8699173481c91063aa55f727b0c5283ef0fd414"

]

}

}

]

#查看容器详细信息

[root@localhost ~]# docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

aaf6681e376e nginx "nginx -g 'daemon off" 3 hours ago Up 3 hours 80/tcp, 443/tcp adoring\_hopper

[root@localhost ~]# docker inspect aaf6681e376e

[

{

"Id": "aaf6681e376e027d10ff880dfc0e3915847049b14baf3e47f67ba3a36c582166",

"Created": "2017-12-20T03:51:26.148155622Z",

"Path": "nginx",

"Args": [

"-g",

"daemon off;"

],

"State": {

"Status": "running",

"Running": true,

"Paused": false,

"Restarting": false,

"OOMKilled": false,

"Dead": false,

"Pid": 6562,

"ExitCode": 0,

"Error": "",

"StartedAt": "2017-12-20T03:51:26.565402782Z",

"FinishedAt": "0001-01-01T00:00:00Z"

},

"Image": "sha256:a5311a310510e5eaff3cfbb22b65d9ce11ddc15e266833909551334d48491921",

"ResolvConfPath": "/var/lib/docker/containers/aaf6681e376e027d10ff880dfc0e3915847049b14baf3e47f67ba3a36c582166/resolv.conf",

"HostnamePath": "/var/lib/docker/containers/aaf6681e376e027d10ff880dfc0e3915847049b14baf3e47f67ba3a36c582166/hostname",

"HostsPath": "/var/lib/docker/containers/aaf6681e376e027d10ff880dfc0e3915847049b14baf3e47f67ba3a36c582166/hosts",

"LogPath": "/var/lib/docker/containers/aaf6681e376e027d10ff880dfc0e3915847049b14baf3e47f67ba3a36c582166/aaf6681e376e027d10ff880dfc0e3915847049b14baf3e47f67ba3a36c582166-json.log",

"Name": "/adoring\_hopper",

"RestartCount": 0,

"Driver": "devicemapper",

"MountLabel": "",

"ProcessLabel": "",

"AppArmorProfile": "",

"ExecIDs": null,

"HostConfig": {

"Binds": null,

"ContainerIDFile": "",

"LogConfig": {

"Type": "json-file",

"Config": {}

},

"NetworkMode": "default",

"PortBindings": {},

"RestartPolicy": {

"Name": "no",

"MaximumRetryCount": 0

},

"AutoRemove": false,

"VolumeDriver": "",

"VolumesFrom": null,

"CapAdd": null,

"CapDrop": null,

"Dns": [],

"DnsOptions": [],

"DnsSearch": [],

"ExtraHosts": null,

"GroupAdd": null,

"IpcMode": "",

"Cgroup": "",

"Links": null,

"OomScoreAdj": 0,

"PidMode": "",

"Privileged": false,

"PublishAllPorts": false,

"ReadonlyRootfs": false,

"SecurityOpt": null,

"UTSMode": "",

"UsernsMode": "",

"ShmSize": 67108864,

"Runtime": "runc",

"ConsoleSize": [

0,

0

],

"Isolation": "",

"CpuShares": 0,

"Memory": 0,

"CgroupParent": "",

"BlkioWeight": 0,

"BlkioWeightDevice": null,

"BlkioDeviceReadBps": null,

"BlkioDeviceWriteBps": null,

"BlkioDeviceReadIOps": null,

"BlkioDeviceWriteIOps": null,

"CpuPeriod": 0,

"CpuQuota": 0,

"CpusetCpus": "",

"CpusetMems": "",

"Devices": [],

"DiskQuota": 0,

"KernelMemory": 0,

"MemoryReservation": 0,

"MemorySwap": 0,

"MemorySwappiness": -1,

"OomKillDisable": false,

"PidsLimit": 0,

"Ulimits": null,

"CpuCount": 0,

"CpuPercent": 0,

"IOMaximumIOps": 0,

"IOMaximumBandwidth": 0

},

"GraphDriver": {

"Name": "devicemapper",

"Data": {

"DeviceId": "98",

"DeviceName": "docker-8:3-34444592-d3dc218e3ce77974e6589dfa15fd17949e0ccae50d8db85049a9120189408dc7",

"DeviceSize": "10737418240"

}

},

"Mounts": [],

"Config": {

"Hostname": "aaf6681e376e",

"Domainname": "",

"User": "",

"AttachStdin": false,

"AttachStdout": false,

"AttachStderr": false,

"ExposedPorts": {

"443/tcp": {},

"80/tcp": {}

},

"Tty": false,

"OpenStdin": false,

"StdinOnce": false,

"Env": [

"PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin",

"NGINX\_VERSION=1.11.5-1~jessie"

],

"Cmd": [

"nginx",

"-g",

"daemon off;"

],

"Image": "nginx",

"Volumes": null,

"WorkingDir": "",

"Entrypoint": null,

"OnBuild": null,

"Labels": {}

},

"NetworkSettings": {

"Bridge": "",

"SandboxID": "3a2d8dac204d394d7d310419e60904fa001b2de691d480a7f36178843ffafafb",

"HairpinMode": false,

"LinkLocalIPv6Address": "",

"LinkLocalIPv6PrefixLen": 0,

"Ports": {

"443/tcp": null,

"80/tcp": null

},

"SandboxKey": "/var/run/docker/netns/3a2d8dac204d",

"SecondaryIPAddresses": null,

"SecondaryIPv6Addresses": null,

"EndpointID": "e2d247a8e50b28811067077628f31de3d6f74690b66601fc1dd4a86e0ba2bbb2",

"Gateway": "172.17.0.1",

"GlobalIPv6Address": "",

"GlobalIPv6PrefixLen": 0,

"IPAddress": "172.17.0.2",

"IPPrefixLen": 16,

"IPv6Gateway": "",

"MacAddress": "02:42:ac:11:00:02",

"Networks": {

"bridge": {

"IPAMConfig": null,

"Links": null,

"Aliases": null,

"NetworkID": "da0792788fda28d5baba688385853f4a1b79cae6355ae890f8b481a34a835e3b",

"EndpointID": "e2d247a8e50b28811067077628f31de3d6f74690b66601fc1dd4a86e0ba2bbb2",

"Gateway": "172.17.0.1",

"IPAddress": "172.17.0.2",

"IPPrefixLen": 16,

"IPv6Gateway": "",

"GlobalIPv6Address": "",

"GlobalIPv6PrefixLen": 0,

"MacAddress": "02:42:ac:11:00:02"

}

}

}

}

]

##查看nginx页面

[root@localhost ~]# curl http://172.17.0.2

<!DOCTYPE html>

<html>

<head>

<title>Welcome to nginx!</title>

<style>

body {

width: 35em;

margin: 0 auto;

font-family: Tahoma, Verdana, Arial, sans-serif;

}

</style>

</head>

<body>

<h1>Welcome to nginx!</h1>

<p>If you see this page, the nginx web server is successfully installed and

working. Further configuration is required.</p>

<p>For online documentation and support please refer to

<a href="http://nginx.org/">nginx.org</a>.<br/>

Commercial support is available at

<a href="http://nginx.com/">nginx.com</a>.</p>

<p><em>Thank you for using nginx.</em></p>

</body>

</html>

#删除镜像

[root@localhost docker\_images]# docker rmi busybox

Untagged: busybox:latest

Deleted: sha256:6ad733544a6317992a6fac4eb19fe1df577d4dec7529efec28a5bd0edad0fd30

Deleted: sha256:0271b8eebde3fa9a6126b1f2335e170f902731ab4942f9f1914e77016540c7bb

[root@localhost docker\_images]# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

<none> <none> c9bd19d022f6 14 months ago 33.27 MB

php latest 988e578c487e 14 months ago 362.8 MB

tomcat latest 729a53c7b338 14 months ago 355.3 MB

mysql latest eda6a4884645 14 months ago 383.4 MB

ubuntu latest f753707788c5 14 months ago 127.1 MB

mysql/mysql-server latest 190154079ff8 14 months ago 310.5 MB

nginx latest a5311a310510 14 months ago 181.4 MB

redis latest 1aa84b1b434e 14 months ago 182.8 MB

haproxy latest 024224f87983 15 months ago 137 MB

centos latest 980e0e4c79ec 15 months ago 196.7 MB

[root@localhost docker\_images]# docker load <busybox.tar

0271b8eebde3: Loading layer 1.338 MB/1.338 MB

Loaded image: busybox:latest32.77 kB/1.338 MB

[root@localhost docker\_images]# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

busybox latest 6ad733544a63 6 weeks ago 1.129 MB

<none> <none> c9bd19d022f6 14 months ago 33.27 MB

php latest 988e578c487e 14 months ago 362.8 MB

tomcat latest 729a53c7b338 14 months ago 355.3 MB

mysql latest eda6a4884645 14 months ago 383.4 MB

ubuntu latest f753707788c5 14 months ago 127.1 MB

mysql/mysql-server latest 190154079ff8 14 months ago 310.5 MB

nginx latest a5311a310510 14 months ago 181.4 MB

redis latest 1aa84b1b434e 14 months ago 182.8 MB

haproxy latest 024224f87983 15 months ago 137 MB

centos latest 980e0e4c79ec 15 months ago 196.7 MB

##给镜像打标签

[root@localhost docker\_images]# docker save 6ad733544a63 > a.tar

[root@localhost docker\_images]# ls

a.tar busybox.tar docker\_images

[root@localhost docker\_images]# scp a.tar 192.168.4.1:/root

root@192.168.4.1's password:

a.tar 100% 1315KB 1.3MB/s 00:00

[root@docker01 ~]# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

[root@docker01 ~]# ls a.tar

a.tar

[root@docker01 ~]# docker load <a.tar

0271b8eebde3: Loading layer 1.338 MB/1.338 MB

Loaded image ID: sha256:6ad733544a6317992a6fac4eb19fe1df577d4dec7529efec28a5bd0edad0fd30

[root@docker01 ~]# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

<none> <none> 6ad733544a63 6 weeks ago 1.129 MB

[root@docker01 ~]# docker tag 6ad733544a63 busybox:latest

[root@docker01 ~]# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

busybox latest 6ad733544a63 6 weeks ago 1.129 MB

[root@docker01 ~]# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

busy v1 6ad733544a63 6 weeks ago 1.129 MB

busybox latest 6ad733544a63 6 weeks ago 1.129 MB

[root@docker01 ~]#

##基于某一个镜像启动着容器，无法删除该镜像

##容器管理

#docker run参数

-d将容器放入后台

-i交互式的

-t终端（一般it连用）

docker rm ${docker ps -aq} ##删除所有容器

#ctrl+p+q把容器放到后台

#docker attach连接容器的console

#docker exec 新启动一个进程连接进去

[root@localhost ~]# docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

02e09df896be busybox "sh" 4 minutes ago Up 4 minutes jolly\_yonath

[root@localhost ~]# docker attach 02e

/ # pstree

sh---pstree

[root@localhost ~]# docker exec -it 02e sh

/ # pstree

sh

##无法删除正在运行的容器，需要将容器停止以后，才能执行删除动作

##需要终端的，用-itd，不需要终端的，直接用-d就可以了

[root@localhost ~]# docker run -itd centos bash

b093b5fcfbe0e85ad4f6eea334876539378eb5026d3b8366877d41d4f5dc3d7a

[root@localhost ~]# docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

b093b5fcfbe0 centos "bash" 24 seconds ago Up 22 seconds adoring\_wozniak

[root@localhost ~]# docker exec -it b09 bash

[root@b093b5fcfbe0 /]# ifconfig

bash: ifconfig: command not found

[root@b093b5fcfbe0 /]# cd /etc/yum.repos.d/

[root@b093b5fcfbe0 yum.repos.d]# rm -rf \*

[root@b093b5fcfbe0 yum.repos.d]# cat develop.repo

[rhel7]

name=rhel

baseurl=ftp://192.168.4.254/pub/iso/rhel7/

enabled=1

gpgcheck=0

[root@b093b5fcfbe0 yum.repos.d]# yum clean all; yum repolist

Loaded plugins: fastestmirror, ovl

Cleaning repos: rhel7

Cleaning up everything

Loaded plugins: fastestmirror, ovl

rhel7 | 4.1 kB 00:00

(1/2): rhel7/group\_gz | 136 kB 00:00

(2/2): rhel7/primary\_db | 3.9 MB 00:00

Determining fastest mirrors

repo id repo name status

rhel7 rhel 4751

repolist: 4751

[root@b093b5fcfbe0 yum.repos.d]# yum -y install net-tools psmisc

Loaded plugins: fastestmirror, ovl

Loading mirror speeds from cached hostfile

Resolving Dependencies

--> Running transaction check

---> Package net-tools.x86\_64 0:2.0-0.17.20131004git.el7 will be installed

---> Package psmisc.x86\_64 0:22.20-11.el7 will be installed

--> Finished Dependency Resolution

Dependencies Resolved

=======================================================================

Package Arch Version Repository

Size

=======================================================================

Installing:

net-tools x86\_64 2.0-0.17.20131004git.el7 rhel7 304 k

psmisc x86\_64 22.20-11.el7 rhel7 141 k

Transaction Summary

=======================================================================

Install 2 Packages

Total download size: 444 k

Installed size: 1.4 M

Downloading packages:

(1/2): net-tools-2.0-0.17.20131004git.el7.x86\_64. | 304 kB 00:00

(2/2): psmisc-22.20-11.el7.x86\_64.rpm | 141 kB 00:00

-----------------------------------------------------------------------

Total 1.8 MB/s | 444 kB 00:00

Running transaction check

Running transaction test

Transaction test succeeded

Running transaction

Installing : net-tools-2.0-0.17.20131004git.el7.x86\_64 1/2

Installing : psmisc-22.20-11.el7.x86\_64 2/2

Verifying : psmisc-22.20-11.el7.x86\_64 1/2

Verifying : net-tools-2.0-0.17.20131004git.el7.x86\_64 2/2

Installed:

net-tools.x86\_64 0:2.0-0.17.20131004git.el7

psmisc.x86\_64 0:22.20-11.el7

Complete!

[root@b093b5fcfbe0 yum.repos.d]# ifconfig

eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500

inet 172.17.0.2 netmask 255.255.0.0 broadcast 0.0.0.0

inet6 fe80::42:acff:fe11:2 prefixlen 64 scopeid 0x20<link>

ether 02:42:ac:11:00:02 txqueuelen 0 (Ethernet)

RX packets 247 bytes 4660004 (4.4 MiB)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 202 bytes 14890 (14.5 KiB)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536

inet 127.0.0.1 netmask 255.0.0.0

inet6 ::1 prefixlen 128 scopeid 0x10<host>

loop txqueuelen 1 (Local Loopback)

RX packets 0 bytes 0 (0.0 B)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 0 bytes 0 (0.0 B)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

[root@b093b5fcfbe0 yum.repos.d]# pstree

bash

##发布容器端口

[root@docker01 ~]# docker run -p 222:22 -itd centos

e2a55fa52d770d4a222ba2bc122db14dedb168d849cd94150fa265a21d04bf77

[root@docker01 ~]# docker exec -it e2 bash

[root@e2a55fa52d77 /]# ping 192.168.4.254

PING 192.168.4.254 (192.168.4.254) 56(84) bytes of data.

64 bytes from 192.168.4.254: icmp\_seq=1 ttl=63 time=0.828 ms

64 bytes from 192.168.4.254: icmp\_seq=2 ttl=63 time=0.342 ms

[root@e2a55fa52d77 /]# rm -rf /etc/yum.repos.d/\*

[root@e2a55fa52d77 /]# vi /etc/yum.repos.d/develop.repo

[root@e2a55fa52d77 /]# yum clean all; yum repolist

Loaded plugins: fastestmirror, ovl

Cleaning repos: rhel7

Cleaning up everything

Loaded plugins: fastestmirror, ovl

rhel7 | 4.1 kB 00:00

(1/2): rhel7/group\_gz | 136 kB 00:00

(2/2): rhel7/primary\_db | 3.9 MB 00:00

Determining fastest mirrors

repo id repo name status

rhel7 rhel7 4751

repolist: 4751

[root@e2a55fa52d77 /]# cat /etc/yum.repos.d/develop.repo

[rhel7]

name=rhel7

baseurl=ftp://192.168.4.254/pub/iso/rhel7

enabled=1

gpgcheck=0

[root@e2a55fa52d77 /]# yum -y install net-tools psmisc openssh-server openssh-client

[root@e2a55fa52d77 /]# sshd-keygen

/usr/sbin/sshd-keygen: line 10: /etc/rc.d/init.d/functions: No such file or directory

Generating SSH2 RSA host key: /usr/sbin/sshd-keygen: line 63: success: command not found

Generating SSH2 ECDSA host key: /usr/sbin/sshd-keygen: line 105: success: command not found

Generating SSH2 ED25519 host key: /usr/sbin/sshd-keygen: line 126: success: command not found

[root@e2a55fa52d77 /]# /usr/sbin/sshd

[root@e2a55fa52d77 /]# netstat -anptu | grep :22

tcp 0 0 0.0.0.0:22 0.0.0.0:\* LISTEN 82/sshd

tcp6 0 0 :::22 :::\* LISTEN 82/sshd

[root@e2a55fa52d77 /]# echo 123 | passwd --stdin root

Changing password for user root.

passwd: all authentication tokens updated successfully.

[root@localhost ~]# ssh 192.168.4.1 -p 222

The authenticity of host '[192.168.4.1]:222 ([192.168.4.1]:222)' can't be established.

ECDSA key fingerprint is 05:fe:d1:01:69:7e:c6:82:e1:44:39:a7:ba:45:56:c5.

Are you sure you want to continue connecting (yes/no)? yes

Warning: Permanently added '[192.168.4.1]:222' (ECDSA) to the list of known hosts.

root@192.168.4.1's password:

X11 forwarding request failed on channel 0

[root@e2a55fa52d77 ~]# ifconfig

eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500

inet 172.17.0.2 netmask 255.255.0.0 broadcast 0.0.0.0

inet6 fe80::42:acff:fe11:2 prefixlen 64 scopeid 0x20<link>

ether 02:42:ac:11:00:02 txqueuelen 0 (Ethernet)

RX packets 391 bytes 5674534 (5.4 MiB)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 371 bytes 29730 (29.0 KiB)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536

inet 127.0.0.1 netmask 255.0.0.0

inet6 ::1 prefixlen 128 scopeid 0x10<host>

loop txqueuelen 1 (Local Loopback)

RX packets 0 bytes 0 (0.0 B)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 0 bytes 0 (0.0 B)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

##通过宿主机的端口连接到宿主机上运行的容器

##关于防火墙的链表的报错，模块丢失，重启docker服务器即可

##docker commit 重做镜像

[root@docker01 ~]# docker run -itd centos

e550534427019b46195fcd5734d825180626ca3fd56fc00f0fd8f2192d598448

[root@docker01 ~]# docker exec -it e5 bash

[root@e55053442701 /]# cd /etc/yum.repos.d/

[root@e55053442701 yum.repos.d]# rm -rf \*

[root@e55053442701 yum.repos.d]# vim dc.repo

bash: vim: command not found

[root@e55053442701 yum.repos.d]# vi dc.repo

[root@e55053442701 yum.repos.d]# cat dc.repo

[rhel]

name=rhel

baseurl=ftp://192.168.4.254/pub/iso/rhel7

enabled=1

gpgcheck=0

[root@e55053442701 yum.repos.d]# yum clean all; yum repolist

Loaded plugins: fastestmirror, ovl

Cleaning repos: rhel

Cleaning up everything

Loaded plugins: fastestmirror, ovl

rhel | 4.1 kB 00:00:00

(1/2): rhel/group\_gz | 136 kB 00:00:00

(2/2): rhel/primary\_db | 3.9 MB 00:00:00

Determining fastest mirrors

repo id repo name status

rhel rhel 4751

repolist: 4751

[root@e55053442701 yum.repos.d]# yum -y install net-tools psmisc vim-enhanced

Loaded plugins: fastestmirror, ovl

Loading mirror speeds from cached hostfile

Resolving Dependencies

--> Running transaction check

---> Package net-tools.x86\_64 0:2.0-0.17.20131004git.el7 will be installed

---> Package psmisc.x86\_64 0:22.20-11.el7 will be installed

---> Package vim-enhanced.x86\_64 2:7.4.160-1.el7 will be installed

--> Processing Dependency: vim-common = 2:7.4.160-1.el7 for package: 2:vim-enhanced-7.4.160-1.el7.x86\_64

--> Processing Dependency: perl(:MODULE\_COMPAT\_5.16.3) for package: 2:vim-enhanced-7.4.160-1.el7.x86\_64

--> Processing Dependency: which for package: 2:vim-enhanced-7.4.160-1.el7.x86\_64

--> Processing Dependency: libgpm.so.2()(64bit) for package: 2:vim-enhanced-7.4.160-1.el7.x86\_64

--> Processing Dependency: libperl.so()(64bit) for package: 2:vim-enhanced-7.4.160-1.el7.x86\_64

--> Running transaction check

---> Package gpm-libs.x86\_64 0:1.20.7-5.el7 will be installed

---> Package perl.x86\_64 4:5.16.3-291.el7 will be installed

--> Processing Dependency: perl(Scalar::Util) >= 1.10 for package: 4:perl-5.16.3-291.el7.x86\_64

--> Processing Dependency: perl(Socket) >= 1.3 for package: 4:perl-5.16.3-291.el7.x86\_64

--> Processing Dependency: perl(Carp) for package: 4:perl-5.16.3-291.el7.x86\_64

--> Processing Dependency: perl(Cwd) for package: 4:perl-5.16.3-291.el7.x86\_64

--> Processing Dependency: perl(Exporter) for package: 4:perl-5.16.3-291.el7.x86\_64

--> Processing Dependency: perl(File::Path) for package: 4:perl-5.16.3-291.el7.x86\_64

--> Processing Dependency: perl(File::Spec) for package: 4:perl-5.16.3-291.el7.x86\_64

--> Processing Dependency: perl(File::Spec::Functions) for package: 4:perl-5.16.3-291.el7.x86\_64

--> Processing Dependency: perl(File::Spec::Unix) for package: 4:perl-5.16.3-291.el7.x86\_64

--> Processing Dependency: perl(File::Temp) for package: 4:perl-5.16.3-291.el7.x86\_64

--> Processing Dependency: perl(Filter::Util::Call) for package: 4:perl-5.16.3-291.el7.x86\_64

--> Processing Dependency: perl(Getopt::Long) for package: 4:perl-5.16.3-291.el7.x86\_64

--> Processing Dependency: perl(Pod::Simple::Search) for package: 4:perl-5.16.3-291.el7.x86\_64

--> Processing Dependency: perl(Pod::Simple::XHTML) for package: 4:perl-5.16.3-291.el7.x86\_64

--> Processing Dependency: perl(Scalar::Util) for package: 4:perl-5.16.3-291.el7.x86\_64

--> Processing Dependency: perl(Socket) for package: 4:perl-5.16.3-291.el7.x86\_64

--> Processing Dependency: perl(Storable) for package: 4:perl-5.16.3-291.el7.x86\_64

--> Processing Dependency: perl(Time::HiRes) for package: 4:perl-5.16.3-291.el7.x86\_64

--> Processing Dependency: perl(Time::Local) for package: 4:perl-5.16.3-291.el7.x86\_64

--> Processing Dependency: perl(constant) for package: 4:perl-5.16.3-291.el7.x86\_64

--> Processing Dependency: perl(threads) for package: 4:perl-5.16.3-291.el7.x86\_64

--> Processing Dependency: perl(threads::shared) for package: 4:perl-5.16.3-291.el7.x86\_64

--> Processing Dependency: perl-macros for package: 4:perl-5.16.3-291.el7.x86\_64

---> Package perl-libs.x86\_64 4:5.16.3-291.el7 will be installed

---> Package vim-common.x86\_64 2:7.4.160-1.el7 will be installed

--> Processing Dependency: vim-filesystem for package: 2:vim-common-7.4.160-1.el7.x86\_64

---> Package which.x86\_64 0:2.20-7.el7 will be installed

--> Running transaction check

---> Package perl-Carp.noarch 0:1.26-244.el7 will be installed

---> Package perl-Exporter.noarch 0:5.68-3.el7 will be installed

---> Package perl-File-Path.noarch 0:2.09-2.el7 will be installed

---> Package perl-File-Temp.noarch 0:0.23.01-3.el7 will be installed

---> Package perl-Filter.x86\_64 0:1.49-3.el7 will be installed

---> Package perl-Getopt-Long.noarch 0:2.40-2.el7 will be installed

--> Processing Dependency: perl(Pod::Usage) >= 1.14 for package: perl-Getopt-Long-2.40-2.el7.noarch

--> Processing Dependency: perl(Text::ParseWords) for package: perl-Getopt-Long-2.40-2.el7.noarch

---> Package perl-PathTools.x86\_64 0:3.40-5.el7 will be installed

---> Package perl-Pod-Simple.noarch 1:3.28-4.el7 will be installed

--> Processing Dependency: perl(Pod::Escapes) >= 1.04 for package: 1:perl-Pod-Simple-3.28-4.el7.noarch

--> Processing Dependency: perl(Encode) for package: 1:perl-Pod-Simple-3.28-4.el7.noarch

---> Package perl-Scalar-List-Utils.x86\_64 0:1.27-248.el7 will be installed

---> Package perl-Socket.x86\_64 0:2.010-4.el7 will be installed

---> Package perl-Storable.x86\_64 0:2.45-3.el7 will be installed

---> Package perl-Time-HiRes.x86\_64 4:1.9725-3.el7 will be installed

---> Package perl-Time-Local.noarch 0:1.2300-2.el7 will be installed

---> Package perl-constant.noarch 0:1.27-2.el7 will be installed

---> Package perl-macros.x86\_64 4:5.16.3-291.el7 will be installed

---> Package perl-threads.x86\_64 0:1.87-4.el7 will be installed

---> Package perl-threads-shared.x86\_64 0:1.43-6.el7 will be installed

---> Package vim-filesystem.x86\_64 2:7.4.160-1.el7 will be installed

--> Running transaction check

---> Package perl-Encode.x86\_64 0:2.51-7.el7 will be installed

---> Package perl-Pod-Escapes.noarch 1:1.04-291.el7 will be installed

---> Package perl-Pod-Usage.noarch 0:1.63-3.el7 will be installed

--> Processing Dependency: perl(Pod::Text) >= 3.15 for package: perl-Pod-Usage-1.63-3.el7.noarch

--> Processing Dependency: perl-Pod-Perldoc for package: perl-Pod-Usage-1.63-3.el7.noarch

---> Package perl-Text-ParseWords.noarch 0:3.29-4.el7 will be installed

--> Running transaction check

---> Package perl-Pod-Perldoc.noarch 0:3.20-4.el7 will be installed

--> Processing Dependency: groff-base for package: perl-Pod-Perldoc-3.20-4.el7.noarch

--> Processing Dependency: perl(HTTP::Tiny) for package: perl-Pod-Perldoc-3.20-4.el7.noarch

--> Processing Dependency: perl(parent) for package: perl-Pod-Perldoc-3.20-4.el7.noarch

---> Package perl-podlators.noarch 0:2.5.1-3.el7 will be installed

--> Running transaction check

---> Package groff-base.x86\_64 0:1.22.2-8.el7 will be installed

---> Package perl-HTTP-Tiny.noarch 0:0.033-3.el7 will be installed

---> Package perl-parent.noarch 1:0.225-244.el7 will be installed

--> Finished Dependency Resolution

Dependencies Resolved

=====================================================================================================================================

Package Arch Version Repository Size

=====================================================================================================================================

Installing:

net-tools x86\_64 2.0-0.17.20131004git.el7 rhel 304 k

psmisc x86\_64 22.20-11.el7 rhel 141 k

vim-enhanced x86\_64 2:7.4.160-1.el7 rhel 1.0 M

Installing for dependencies:

gpm-libs x86\_64 1.20.7-5.el7 rhel 32 k

groff-base x86\_64 1.22.2-8.el7 rhel 942 k

perl x86\_64 4:5.16.3-291.el7 rhel 8.0 M

perl-Carp noarch 1.26-244.el7 rhel 19 k

perl-Encode x86\_64 2.51-7.el7 rhel 1.5 M

perl-Exporter noarch 5.68-3.el7 rhel 28 k

perl-File-Path noarch 2.09-2.el7 rhel 27 k

perl-File-Temp noarch 0.23.01-3.el7 rhel 56 k

perl-Filter x86\_64 1.49-3.el7 rhel 76 k

perl-Getopt-Long noarch 2.40-2.el7 rhel 56 k

perl-HTTP-Tiny noarch 0.033-3.el7 rhel 38 k

perl-PathTools x86\_64 3.40-5.el7 rhel 83 k

perl-Pod-Escapes noarch 1:1.04-291.el7 rhel 51 k

perl-Pod-Perldoc noarch 3.20-4.el7 rhel 87 k

perl-Pod-Simple noarch 1:3.28-4.el7 rhel 216 k

perl-Pod-Usage noarch 1.63-3.el7 rhel 27 k

perl-Scalar-List-Utils x86\_64 1.27-248.el7 rhel 36 k

perl-Socket x86\_64 2.010-4.el7 rhel 49 k

perl-Storable x86\_64 2.45-3.el7 rhel 77 k

perl-Text-ParseWords noarch 3.29-4.el7 rhel 14 k

perl-Time-HiRes x86\_64 4:1.9725-3.el7 rhel 45 k

perl-Time-Local noarch 1.2300-2.el7 rhel 24 k

perl-constant noarch 1.27-2.el7 rhel 19 k

perl-libs x86\_64 4:5.16.3-291.el7 rhel 688 k

perl-macros x86\_64 4:5.16.3-291.el7 rhel 43 k

perl-parent noarch 1:0.225-244.el7 rhel 12 k

perl-podlators noarch 2.5.1-3.el7 rhel 112 k

perl-threads x86\_64 1.87-4.el7 rhel 49 k

perl-threads-shared x86\_64 1.43-6.el7 rhel 39 k

vim-common x86\_64 2:7.4.160-1.el7 rhel 5.9 M

vim-filesystem x86\_64 2:7.4.160-1.el7 rhel 9.6 k

which x86\_64 2.20-7.el7 rhel 41 k

Transaction Summary

=====================================================================================================================================

Install 3 Packages (+32 Dependent packages)

Total download size: 20 M

Installed size: 64 M

Downloading packages:

(1/35): gpm-libs-1.20.7-5.el7.x86\_64.rpm | 32 kB 00:00:00

(2/35): net-tools-2.0-0.17.20131004git.el7.x86\_64.rpm | 304 kB 00:00:00

(3/35): groff-base-1.22.2-8.el7.x86\_64.rpm | 942 kB 00:00:00

(4/35): perl-Carp-1.26-244.el7.noarch.rpm | 19 kB 00:00:00

(5/35): perl-5.16.3-291.el7.x86\_64.rpm | 8.0 MB 00:00:00

(6/35): perl-Encode-2.51-7.el7.x86\_64.rpm | 1.5 MB 00:00:00

(7/35): perl-Exporter-5.68-3.el7.noarch.rpm | 28 kB 00:00:00

(8/35): perl-File-Path-2.09-2.el7.noarch.rpm | 27 kB 00:00:00

(9/35): perl-Filter-1.49-3.el7.x86\_64.rpm | 76 kB 00:00:00

(10/35): perl-File-Temp-0.23.01-3.el7.noarch.rpm | 56 kB 00:00:00

(11/35): perl-Getopt-Long-2.40-2.el7.noarch.rpm | 56 kB 00:00:00

(12/35): perl-PathTools-3.40-5.el7.x86\_64.rpm | 83 kB 00:00:00

(13/35): perl-Pod-Escapes-1.04-291.el7.noarch.rpm | 51 kB 00:00:00

(14/35): perl-Pod-Perldoc-3.20-4.el7.noarch.rpm | 87 kB 00:00:00

(15/35): perl-HTTP-Tiny-0.033-3.el7.noarch.rpm | 38 kB 00:00:00

(16/35): perl-Pod-Simple-3.28-4.el7.noarch.rpm | 216 kB 00:00:00

(17/35): perl-Pod-Usage-1.63-3.el7.noarch.rpm | 27 kB 00:00:00

(18/35): perl-Scalar-List-Utils-1.27-248.el7.x86\_64.rpm | 36 kB 00:00:00

(19/35): perl-Socket-2.010-4.el7.x86\_64.rpm | 49 kB 00:00:00

(20/35): perl-Storable-2.45-3.el7.x86\_64.rpm | 77 kB 00:00:00

(21/35): perl-Text-ParseWords-3.29-4.el7.noarch.rpm | 14 kB 00:00:00

(22/35): perl-Time-HiRes-1.9725-3.el7.x86\_64.rpm | 45 kB 00:00:00

(23/35): perl-Time-Local-1.2300-2.el7.noarch.rpm | 24 kB 00:00:00

(24/35): perl-constant-1.27-2.el7.noarch.rpm | 19 kB 00:00:00

(25/35): perl-macros-5.16.3-291.el7.x86\_64.rpm | 43 kB 00:00:00

(26/35): perl-libs-5.16.3-291.el7.x86\_64.rpm | 688 kB 00:00:00

(27/35): perl-parent-0.225-244.el7.noarch.rpm | 12 kB 00:00:00

(28/35): perl-threads-1.87-4.el7.x86\_64.rpm | 49 kB 00:00:00

(29/35): perl-podlators-2.5.1-3.el7.noarch.rpm | 112 kB 00:00:00

(30/35): perl-threads-shared-1.43-6.el7.x86\_64.rpm | 39 kB 00:00:00

(31/35): psmisc-22.20-11.el7.x86\_64.rpm | 141 kB 00:00:00

(32/35): vim-enhanced-7.4.160-1.el7.x86\_64.rpm | 1.0 MB 00:00:00

(33/35): vim-common-7.4.160-1.el7.x86\_64.rpm | 5.9 MB 00:00:00

(34/35): vim-filesystem-7.4.160-1.el7.x86\_64.rpm | 9.6 kB 00:00:00

(35/35): which-2.20-7.el7.x86\_64.rpm | 41 kB 00:00:00

-------------------------------------------------------------------------------------------------------------------------------------

Total 25 MB/s | 20 MB 00:00:00

Running transaction check

Running transaction test

Transaction test succeeded

Running transaction

Installing : 2:vim-filesystem-7.4.160-1.el7.x86\_64 1/35

Installing : 2:vim-common-7.4.160-1.el7.x86\_64 2/35

Installing : gpm-libs-1.20.7-5.el7.x86\_64 3/35

Installing : groff-base-1.22.2-8.el7.x86\_64 4/35

Installing : 1:perl-parent-0.225-244.el7.noarch 5/35

Installing : perl-HTTP-Tiny-0.033-3.el7.noarch 6/35

Installing : perl-podlators-2.5.1-3.el7.noarch 7/35

Installing : perl-Pod-Perldoc-3.20-4.el7.noarch 8/35

Installing : 1:perl-Pod-Escapes-1.04-291.el7.noarch 9/35

Installing : perl-Encode-2.51-7.el7.x86\_64 10/35

Installing : perl-Text-ParseWords-3.29-4.el7.noarch 11/35

Installing : perl-Pod-Usage-1.63-3.el7.noarch 12/35

Installing : perl-Storable-2.45-3.el7.x86\_64 13/35

Installing : perl-Exporter-5.68-3.el7.noarch 14/35

Installing : perl-constant-1.27-2.el7.noarch 15/35

Installing : perl-threads-1.87-4.el7.x86\_64 16/35

Installing : perl-Time-Local-1.2300-2.el7.noarch 17/35

Installing : perl-Socket-2.010-4.el7.x86\_64 18/35

Installing : perl-Carp-1.26-244.el7.noarch 19/35

Installing : 4:perl-Time-HiRes-1.9725-3.el7.x86\_64 20/35

Installing : perl-threads-shared-1.43-6.el7.x86\_64 21/35

Installing : perl-PathTools-3.40-5.el7.x86\_64 22/35

Installing : perl-Scalar-List-Utils-1.27-248.el7.x86\_64 23/35

Installing : 4:perl-libs-5.16.3-291.el7.x86\_64 24/35

Installing : 4:perl-macros-5.16.3-291.el7.x86\_64 25/35

Installing : 1:perl-Pod-Simple-3.28-4.el7.noarch 26/35

Installing : perl-File-Temp-0.23.01-3.el7.noarch 27/35

Installing : perl-File-Path-2.09-2.el7.noarch 28/35

Installing : perl-Filter-1.49-3.el7.x86\_64 29/35

Installing : perl-Getopt-Long-2.40-2.el7.noarch 30/35

Installing : 4:perl-5.16.3-291.el7.x86\_64 31/35

Installing : which-2.20-7.el7.x86\_64 32/35

install-info: No such file or directory for /usr/share/info/which.info.gz

Installing : 2:vim-enhanced-7.4.160-1.el7.x86\_64 33/35

Installing : psmisc-22.20-11.el7.x86\_64 34/35

Installing : net-tools-2.0-0.17.20131004git.el7.x86\_64 35/35

Verifying : 2:vim-common-7.4.160-1.el7.x86\_64 1/35

Verifying : perl-HTTP-Tiny-0.033-3.el7.noarch 2/35

Verifying : perl-threads-shared-1.43-6.el7.x86\_64 3/35

Verifying : perl-Storable-2.45-3.el7.x86\_64 4/35

Verifying : net-tools-2.0-0.17.20131004git.el7.x86\_64 5/35

Verifying : perl-Exporter-5.68-3.el7.noarch 6/35

Verifying : perl-constant-1.27-2.el7.noarch 7/35

Verifying : perl-PathTools-3.40-5.el7.x86\_64 8/35

Verifying : perl-threads-1.87-4.el7.x86\_64 9/35

Verifying : 1:perl-Pod-Escapes-1.04-291.el7.noarch 10/35

Verifying : 1:perl-parent-0.225-244.el7.noarch 11/35

Verifying : which-2.20-7.el7.x86\_64 12/35

Verifying : groff-base-1.22.2-8.el7.x86\_64 13/35

Verifying : perl-File-Temp-0.23.01-3.el7.noarch 14/35

Verifying : 1:perl-Pod-Simple-3.28-4.el7.noarch 15/35

Verifying : perl-Time-Local-1.2300-2.el7.noarch 16/35

Verifying : gpm-libs-1.20.7-5.el7.x86\_64 17/35

Verifying : perl-Pod-Perldoc-3.20-4.el7.noarch 18/35

Verifying : perl-Socket-2.010-4.el7.x86\_64 19/35

Verifying : 2:vim-filesystem-7.4.160-1.el7.x86\_64 20/35

Verifying : perl-Carp-1.26-244.el7.noarch 21/35

Verifying : 2:vim-enhanced-7.4.160-1.el7.x86\_64 22/35

Verifying : 4:perl-Time-HiRes-1.9725-3.el7.x86\_64 23/35

Verifying : perl-Scalar-List-Utils-1.27-248.el7.x86\_64 24/35

Verifying : 4:perl-libs-5.16.3-291.el7.x86\_64 25/35

Verifying : 4:perl-macros-5.16.3-291.el7.x86\_64 26/35

Verifying : perl-Pod-Usage-1.63-3.el7.noarch 27/35

Verifying : perl-Encode-2.51-7.el7.x86\_64 28/35

Verifying : perl-podlators-2.5.1-3.el7.noarch 29/35

Verifying : perl-Getopt-Long-2.40-2.el7.noarch 30/35

Verifying : perl-File-Path-2.09-2.el7.noarch 31/35

Verifying : 4:perl-5.16.3-291.el7.x86\_64 32/35

Verifying : psmisc-22.20-11.el7.x86\_64 33/35

Verifying : perl-Filter-1.49-3.el7.x86\_64 34/35

Verifying : perl-Text-ParseWords-3.29-4.el7.noarch 35/35

Installed:

net-tools.x86\_64 0:2.0-0.17.20131004git.el7 psmisc.x86\_64 0:22.20-11.el7 vim-enhanced.x86\_64 2:7.4.160-1.el7

Dependency Installed:

gpm-libs.x86\_64 0:1.20.7-5.el7 groff-base.x86\_64 0:1.22.2-8.el7 perl.x86\_64 4:5.16.3-291.el7

perl-Carp.noarch 0:1.26-244.el7 perl-Encode.x86\_64 0:2.51-7.el7 perl-Exporter.noarch 0:5.68-3.el7

perl-File-Path.noarch 0:2.09-2.el7 perl-File-Temp.noarch 0:0.23.01-3.el7 perl-Filter.x86\_64 0:1.49-3.el7

perl-Getopt-Long.noarch 0:2.40-2.el7 perl-HTTP-Tiny.noarch 0:0.033-3.el7 perl-PathTools.x86\_64 0:3.40-5.el7

perl-Pod-Escapes.noarch 1:1.04-291.el7 perl-Pod-Perldoc.noarch 0:3.20-4.el7 perl-Pod-Simple.noarch 1:3.28-4.el7

perl-Pod-Usage.noarch 0:1.63-3.el7 perl-Scalar-List-Utils.x86\_64 0:1.27-248.el7 perl-Socket.x86\_64 0:2.010-4.el7

perl-Storable.x86\_64 0:2.45-3.el7 perl-Text-ParseWords.noarch 0:3.29-4.el7 perl-Time-HiRes.x86\_64 4:1.9725-3.el7

perl-Time-Local.noarch 0:1.2300-2.el7 perl-constant.noarch 0:1.27-2.el7 perl-libs.x86\_64 4:5.16.3-291.el7

perl-macros.x86\_64 4:5.16.3-291.el7 perl-parent.noarch 1:0.225-244.el7 perl-podlators.noarch 0:2.5.1-3.el7

perl-threads.x86\_64 0:1.87-4.el7 perl-threads-shared.x86\_64 0:1.43-6.el7 vim-common.x86\_64 2:7.4.160-1.el7

vim-filesystem.x86\_64 2:7.4.160-1.el7 which.x86\_64 0:2.20-7.el7

Complete!

[root@e55053442701 yum.repos.d]# ifconfig

eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500

inet 172.17.0.2 netmask 255.255.0.0 broadcast 0.0.0.0

inet6 fe80::42:acff:fe11:2 prefixlen 64 scopeid 0x20<link>

ether 02:42:ac:11:00:02 txqueuelen 0 (Ethernet)

RX packets 1106 bytes 25000688 (23.8 MiB)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 1065 bytes 76858 (75.0 KiB)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536

inet 127.0.0.1 netmask 255.0.0.0

inet6 ::1 prefixlen 128 scopeid 0x10<host>

loop txqueuelen 1 (Local Loopback)

RX packets 0 bytes 0 (0.0 B)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 0 bytes 0 (0.0 B)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

[root@e55053442701 yum.repos.d]# pstree -p 0

?()-+-bash(1)

`-bash(13)---pstree(44)

[root@e55053442701 yum.repos.d]# vim

[root@e55053442701 yum.repos.d]# exit

exit

[root@docker01 ~]# docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

e55053442701 centos "/bin/bash" 5 minutes ago Up 5 minutes tender\_brown

[root@docker01 ~]# docker commit e55 myos:latest

sha256:61936f8aea4177253f827cb714f9cd62c9948954bc7b4a3340e59617e17d670d

[root@docker01 ~]# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

myos latest 61936f8aea41 5 seconds ago 293.9 MB

busybox latest 6ad733544a63 6 weeks ago 1.129 MB

centos latest 980e0e4c79ec 15 months ago 196.7 MB

##用dockerfile重新定义镜像

[root@docker01 ~]# mkdir build

[root@docker01 ~]# cd build/

[root@docker01 build]# ls

Dockerfile run.sh

[root@docker01 build]# cat $(ls)

FROM centos

MAINTAINER mark mark@163.com

ENV NAME=mark

ENV environment=test

WORKDIR /root

RUN rm -rf /etc/yum.repos.d/\*

RUN echo "[rhel]" >> /etc/yum.repos.d/t.repo

RUN echo name=rhel >> /etc/yum.repos.d/t.repo

RUN echo baseurl=ftp://192.168.4.254/pub/iso/rhel7 >> /etc/yum.repos.d/t.repo

RUN echo enabled=1 >> /etc/yum.repos.d/t.repo

RUN echo gpgcheck=0 >> /etc/yum.repos.d/t.repo

RUN yum -y install net-tools psmisc httpd openssh-server openssh-client

RUN echo "hello world" > /var/www/html/index.html

RUN echo 123456 | passwd --stdin root

ADD run.sh /usr/local/bin/run.sh

EXPOSE 80

EXPOSE 22

CMD ["/usr/local/bin/run.sh"]

#!/bin/bash

[ -e "/etc/ssh/ssh\_host\_rsa\_key" ] || /usr/sbin/sshd-keygen &> /dev/null

/usr/sbin/sshd

/usr/sbin/httpd -DFOREGROUND

[root@docker01 build]# docker build -t mytest01 .

Sending build context to Docker daemon 3.584 kB

Step 1 : FROM centos

---> 980e0e4c79ec

Step 2 : MAINTAINER mark mark@163.com

---> Running in e794f7f7eb1d

---> 98d3251755dc

Removing intermediate container e794f7f7eb1d

Step 3 : ENV NAME mark

---> Running in ce7471c99d50

---> 534f7dd71654

Removing intermediate container ce7471c99d50

Step 4 : ENV environment test

---> Running in 2e79fc7827dd

---> 12e8aa24bdf6

Removing intermediate container 2e79fc7827dd

Step 5 : WORKDIR /root

---> Running in 558b875c2fbd

---> 19bd45c5f3fb

Removing intermediate container 558b875c2fbd

Step 6 : RUN rm -rf /etc/yum.repos.d/\*

---> Running in e02e3a9bcc35

---> 7324a0f89974

Removing intermediate container e02e3a9bcc35

Step 7 : RUN echo "[rhel]" >> /etc/yum.repos.d/t.repo

---> Running in f31298264fbd

---> 39625dd1435a

Removing intermediate container f31298264fbd

Step 8 : RUN echo name=rhel >> /etc/yum.repos.d/t.repo

---> Running in 76e5de5cf459

---> 5b01baa1821e

Removing intermediate container 76e5de5cf459

Step 9 : RUN echo baseurl=ftp://192.168.4.254/pub/iso/rhel7 >> /etc/yum.repos.d/t.repo

---> Running in ee77a5ef1c59

---> eb88a727726c

Removing intermediate container ee77a5ef1c59

Step 10 : RUN echo enabled=1 >> /etc/yum.repos.d/t.repo

---> Running in dca7c03c6ccc

---> 618c1daa054a

Removing intermediate container dca7c03c6ccc

Step 11 : RUN echo gpgcheck=0 >> /etc/yum.repos.d/t.repo

---> Running in 8c0896655c08

---> 002a824548b6

Removing intermediate container 8c0896655c08

Step 12 : RUN yum -y install net-tools psmisc httpd openssh-server openssh-client

---> Running in 8a68bf927e7b

Loaded plugins: fastestmirror, ovl

Determining fastest mirrors

No package openssh-client available.

Resolving Dependencies

--> Running transaction check

---> Package httpd.x86\_64 0:2.4.6-45.el7 will be installed

--> Processing Dependency: httpd-tools = 2.4.6-45.el7 for package: httpd-2.4.6-45.el7.x86\_64

--> Processing Dependency: system-logos >= 7.92.1-1 for package: httpd-2.4.6-45.el7.x86\_64

--> Processing Dependency: /etc/mime.types for package: httpd-2.4.6-45.el7.x86\_64

--> Processing Dependency: libapr-1.so.0()(64bit) for package: httpd-2.4.6-45.el7.x86\_64

--> Processing Dependency: libaprutil-1.so.0()(64bit) for package: httpd-2.4.6-45.el7.x86\_64

---> Package net-tools.x86\_64 0:2.0-0.17.20131004git.el7 will be installed

---> Package openssh-server.x86\_64 0:6.6.1p1-31.el7 will be installed

--> Processing Dependency: openssh = 6.6.1p1-31.el7 for package: openssh-server-6.6.1p1-31.el7.x86\_64

--> Processing Dependency: fipscheck-lib(x86-64) >= 1.3.0 for package: openssh-server-6.6.1p1-31.el7.x86\_64

--> Processing Dependency: libfipscheck.so.1()(64bit) for package: openssh-server-6.6.1p1-31.el7.x86\_64

--> Processing Dependency: libwrap.so.0()(64bit) for package: openssh-server-6.6.1p1-31.el7.x86\_64

---> Package psmisc.x86\_64 0:22.20-11.el7 will be installed

--> Running transaction check

---> Package apr.x86\_64 0:1.4.8-3.el7 will be installed

---> Package apr-util.x86\_64 0:1.5.2-6.el7 will be installed

---> Package fipscheck-lib.x86\_64 0:1.4.1-5.el7 will be installed

--> Processing Dependency: /usr/bin/fipscheck for package: fipscheck-lib-1.4.1-5.el7.x86\_64

---> Package httpd-tools.x86\_64 0:2.4.6-45.el7 will be installed

---> Package mailcap.noarch 0:2.1.41-2.el7 will be installed

---> Package openssh.x86\_64 0:6.6.1p1-31.el7 will be installed

---> Package redhat-logos.noarch 0:70.0.3-6.el7 will be installed

---> Package tcp\_wrappers-libs.x86\_64 0:7.6-77.el7 will be installed

--> Running transaction check

---> Package fipscheck.x86\_64 0:1.4.1-5.el7 will be installed

--> Finished Dependency Resolution

Dependencies Resolved

================================================================================

Package Arch Version Repository

Size

================================================================================

Installing:

httpd x86\_64 2.4.6-45.el7 rhel 1.2 M

net-tools x86\_64 2.0-0.17.20131004git.el7 rhel 304 k

openssh-server x86\_64 6.6.1p1-31.el7 rhel 440 k

psmisc x86\_64 22.20-11.el7 rhel 141 k

Installing for dependencies:

apr x86\_64 1.4.8-3.el7 rhel 103 k

apr-util x86\_64 1.5.2-6.el7 rhel 92 k

fipscheck x86\_64 1.4.1-5.el7 rhel 21 k

fipscheck-lib x86\_64 1.4.1-5.el7 rhel 11 k

httpd-tools x86\_64 2.4.6-45.el7 rhel 84 k

mailcap noarch 2.1.41-2.el7 rhel 31 k

openssh x86\_64 6.6.1p1-31.el7 rhel 437 k

redhat-logos noarch 70.0.3-6.el7 rhel 13 M

tcp\_wrappers-libs x86\_64 7.6-77.el7 rhel 66 k

Transaction Summary

================================================================================

Install 4 Packages (+9 Dependent packages)

Total download size: 16 M

Installed size: 21 M

Downloading packages:

--------------------------------------------------------------------------------

Total 31 MB/s | 16 MB 00:00

Running transaction check

Running transaction test

Transaction test succeeded

Running transaction

Installing : fipscheck-1.4.1-5.el7.x86\_64 1/13

Installing : fipscheck-lib-1.4.1-5.el7.x86\_64 2/13

Installing : apr-1.4.8-3.el7.x86\_64 3/13

Installing : apr-util-1.5.2-6.el7.x86\_64 4/13

Installing : httpd-tools-2.4.6-45.el7.x86\_64 5/13

Installing : openssh-6.6.1p1-31.el7.x86\_64 6/13

Installing : tcp\_wrappers-libs-7.6-77.el7.x86\_64 7/13

Installing : mailcap-2.1.41-2.el7.noarch 8/13

Installing : redhat-logos-70.0.3-6.el7.noarch 9/13

Installing : httpd-2.4.6-45.el7.x86\_64 10/13

Installing : openssh-server-6.6.1p1-31.el7.x86\_64 11/13

Installing : net-tools-2.0-0.17.20131004git.el7.x86\_64 12/13

Installing : psmisc-22.20-11.el7.x86\_64 13/13

Verifying : redhat-logos-70.0.3-6.el7.noarch 1/13

Verifying : mailcap-2.1.41-2.el7.noarch 2/13

Verifying : apr-1.4.8-3.el7.x86\_64 3/13

Verifying : tcp\_wrappers-libs-7.6-77.el7.x86\_64 4/13

Verifying : psmisc-22.20-11.el7.x86\_64 5/13

Verifying : net-tools-2.0-0.17.20131004git.el7.x86\_64 6/13

Verifying : openssh-6.6.1p1-31.el7.x86\_64 7/13

Verifying : httpd-tools-2.4.6-45.el7.x86\_64 8/13

Verifying : httpd-2.4.6-45.el7.x86\_64 9/13

Verifying : fipscheck-lib-1.4.1-5.el7.x86\_64 10/13

Verifying : openssh-server-6.6.1p1-31.el7.x86\_64 11/13

Verifying : fipscheck-1.4.1-5.el7.x86\_64 12/13

Verifying : apr-util-1.5.2-6.el7.x86\_64 13/13

Installed:

httpd.x86\_64 0:2.4.6-45.el7

net-tools.x86\_64 0:2.0-0.17.20131004git.el7

openssh-server.x86\_64 0:6.6.1p1-31.el7

psmisc.x86\_64 0:22.20-11.el7

Dependency Installed:

apr.x86\_64 0:1.4.8-3.el7 apr-util.x86\_64 0:1.5.2-6.el7

fipscheck.x86\_64 0:1.4.1-5.el7 fipscheck-lib.x86\_64 0:1.4.1-5.el7

httpd-tools.x86\_64 0:2.4.6-45.el7 mailcap.noarch 0:2.1.41-2.el7

openssh.x86\_64 0:6.6.1p1-31.el7 redhat-logos.noarch 0:70.0.3-6.el7

tcp\_wrappers-libs.x86\_64 0:7.6-77.el7

Complete!

---> 548e48a5a4b1

Removing intermediate container 8a68bf927e7b

Step 13 : RUN echo "hello world" > /var/www/html/index.html

---> Running in b93db37e2c9c

---> 04a7952d21cb

Removing intermediate container b93db37e2c9c

Step 14 : RUN echo 123456 | passwd --stdin root

---> Running in f08524d21510

Changing password for user root.

passwd: all authentication tokens updated successfully.

---> 1680e2f8088a

Removing intermediate container f08524d21510

Step 15 : ADD run.sh /usr/local/bin/run.sh

---> 5a03e00ea679

Removing intermediate container 0a989bc98d5c

Step 16 : EXPOSE 80

---> Running in b13304a26373

---> 13868aa70618

Removing intermediate container b13304a26373

Step 17 : EXPOSE 22

---> Running in 318855c8f307

---> 3ed3e250db75

Removing intermediate container 318855c8f307

Step 18 : CMD /usr/local/bin/run.sh

---> Running in e4b04ad7becd

---> 629ad6c3acd0

Removing intermediate container e4b04ad7becd

Successfully built 629ad6c3acd0

[root@docker01 build]# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

mytest01 latest 629ad6c3acd0 8 seconds ago 258.9 MB

myos latest 61936f8aea41 47 minutes ago 293.9 MB

busybox latest 6ad733544a63 6 weeks ago 1.129 MB

centos latest 980e0e4c79ec 15 months ago 196.7 MB

##定义到mytest01

##自定义本地仓库

[root@docker01 ~]# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

mytest01 latest 629ad6c3acd0 3 hours ago 258.9 MB

myos latest 61936f8aea41 4 hours ago 293.9 MB

busybox latest 6ad733544a63 6 weeks ago 1.129 MB

centos latest 980e0e4c79ec 15 months ago 196.7 MB

[root@docker01 ~]# docker load < registry.tar

011b303988d2: Loading layer 5.05 MB/5.05 MB

d57f828d06ea: Loading layer 1.631 MB/1.631 MB

a049b9c716b3: Loading layer 27.21 MB/27.21 MB

481c807467a1: Loading layer 3.584 kB/3.584 kB

9b728062fb6d: Loading layer 2.048 kB/2.048 kB

Loaded image ID: sha256:c9bd19d022f6613fa0e3d73b2fe2b2cffe19ed629a426db9a652b597fccf07d4

[root@docker01 ~]# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

mytest01 latest 629ad6c3acd0 4 hours ago 258.9 MB

myos latest 61936f8aea41 4 hours ago 293.9 MB

busybox latest 6ad733544a63 6 weeks ago 1.129 MB

<none> <none> c9bd19d022f6 14 months ago 33.27 MB

centos latest 980e0e4c79ec 15 months ago 196.7 MB

[root@docker01 ~]# docker tag c9bd19d022f6 registry:latest

[root@docker01 ~]# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

mytest01 latest 629ad6c3acd0 4 hours ago 258.9 MB

myos latest 61936f8aea41 4 hours ago 293.9 MB

busybox latest 6ad733544a63 6 weeks ago 1.129 MB

registry latest c9bd19d022f6 14 months ago 33.27 MB

centos latest 980e0e4c79ec 15 months ago 196.7 MB

[root@docker01 ~]# vim /etc/docker/daemon.json

[root@docker01 ~]# cat /etc/docker/daemon.json

{

"insecure-registries" : ["192.168.4.1:5000"]

}

[root@docker01 ~]# systemctl restart docker

[root@docker01 ~]# docker run -d -p 5000:5000 registry

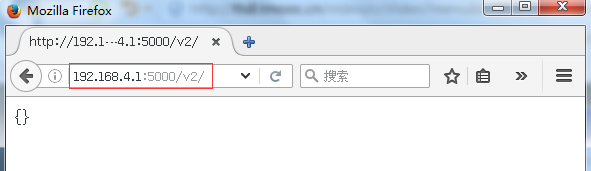
d81451f6a4c9522ab82b3af6f7e4a20621601200bec21d4e412922d5dded9d57

[root@docker01 ~]# docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

d81451f6a4c9 registry "/entrypoint.sh /etc/" 3 seconds ago Up 2 seconds 0.0.0.0:5000->5000/tcp compassionate\_banach

##启动自定义仓库容器，发布本机5000端口



[root@localhost ~]# curl http://192.168.4.1:5000/v2

<a href="/v2/">Moved Permanently</a>.

[root@docker01 ~]# docker tag busybox 192.168.4.1:5000/busybox:latest

[root@docker01 ~]# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

mytest01 latest 629ad6c3acd0 4 hours ago 258.9 MB

myos latest 61936f8aea41 5 hours ago 293.9 MB

192.168.4.1:5000/busybox latest 6ad733544a63 6 weeks ago 1.129 MB

busybox latest 6ad733544a63 6 weeks ago 1.129 MB

registry latest c9bd19d022f6 14 months ago 33.27 MB

centos latest 980e0e4c79ec 15 months ago 196.7 MB

[root@docker01 ~]# docker push 192.168.4.1:5000/busybox:latest

The push refers to a repository [192.168.4.1:5000/busybox]

0271b8eebde3: Pushed

latest: digest: sha256:3571ca1b0e90e159de4fc07b3bf94ef189a0645314704f629204adb7035ecf45 size: 527

[root@docker01 ~]# docker tag busybox 192.168.4.1:5000/busybox:v1

[root@docker01 ~]# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

mytest01 latest 629ad6c3acd0 4 hours ago 258.9 MB

myos latest 61936f8aea41 5 hours ago 293.9 MB

192.168.4.1:5000/busybox latest 6ad733544a63 6 weeks ago 1.129 MB

192.168.4.1:5000/busybox v1 6ad733544a63 6 weeks ago 1.129 MB

busybox latest 6ad733544a63 6 weeks ago 1.129 MB

registry latest c9bd19d022f6 14 months ago 33.27 MB

centos latest 980e0e4c79ec 15 months ago 196.7 MB

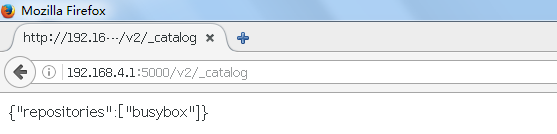
[root@docker01 ~]# docker push 192.168.4.1:5000/busybox:v1

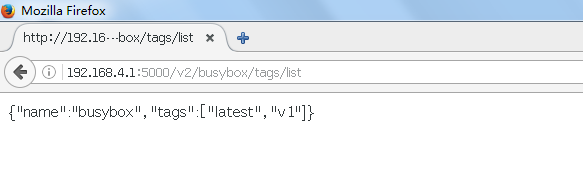
The push refers to a repository [192.168.4.1:5000/busybox]

0271b8eebde3: Layer already exists

v1: digest: sha256:3571ca1b0e90e159de4fc07b3bf94ef189a0645314704f629204adb7035ecf45 size: 527

##上传镜像





[root@docker01 ~]# docker tag myos 192.168.4.1:5000/myos:latest

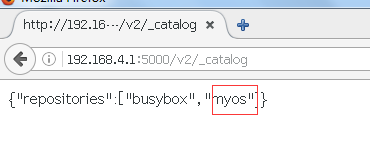
[root@docker01 ~]# docker push 192.168.4.1:5000/myos:latest

The push refers to a repository [192.168.4.1:5000/myos]

0b84e2a0fe21: Pushed

0aeb287b1ba9: Pushed

latest: digest: sha256:6184f19f80a454f2e581a5851e80d572ff9daacf34159314062cf723f2baa777 size: 741



##测试本地镜像仓库启动容器

[root@docker01 ~]# docker rmi busybox

Untagged: busybox:latest

Deleted: sha256:6ad733544a6317992a6fac4eb19fe1df577d4dec7529efec28a5bd0edad0fd30

Deleted: sha256:0271b8eebde3fa9a6126b1f2335e170f902731ab4942f9f1914e77016540c7bb

[root@docker01 ~]# docker run -it 192.168.4.1:5000/busybox

Unable to find image '192.168.4.1:5000/busybox:latest' locally

latest: Pulling from busybox

194a2ee48531: Pull complete

Digest: sha256:3571ca1b0e90e159de4fc07b3bf94ef189a0645314704f629204adb7035ecf45

Status: Downloaded newer image for 192.168.4.1:5000/busybox:latest

/ # ifconfig

eth0 Link encap:Ethernet HWaddr 02:42:AC:11:00:03

inet addr:172.17.0.3 Bcast:0.0.0.0 Mask:255.255.0.0

inet6 addr: fe80::42:acff:fe11:3/64 Scope:Link

UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1

RX packets:6 errors:0 dropped:0 overruns:0 frame:0

TX packets:6 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:0

RX bytes:508 (508.0 B) TX bytes:508 (508.0 B)

lo Link encap:Local Loopback

inet addr:127.0.0.1 Mask:255.0.0.0

inet6 addr: ::1/128 Scope:Host

UP LOOPBACK RUNNING MTU:65536 Metric:1

RX packets:0 errors:0 dropped:0 overruns:0 frame:0

TX packets:0 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1

RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)

[root@docker01 ~]# docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

ace22886f27b 192.168.4.1:5000/busybox "sh" 43 seconds ago Up 42 seconds sick\_mcclintock

d81451f6a4c9 registry "/entrypoint.sh /etc/" 47 minutes ago Up 14 minutes 0.0.0.0:5000->5000/tcp compassionate\_banach

##存储持久化

[root@docker01 ~]# mkdir /var/data

[root@docker01 ~]# cd /var/data/

[root@docker01 data]# touch {a..f}

[root@docker01 data]# ls

a b c d e f

[root@docker01 data]# docker run -it -v /var/data:/data myos bash

[root@01627ac8b8b9 /]# ls /data

a b c d e f

[root@docker01 ~]# docker run -it -v /var/data:/var/aa myos bash

[root@8d893bf42e6e /]# ls /var/aa/

a b c d e f

[root@8d893bf42e6e /]# cd /var/aa

[root@8d893bf42e6e aa]# rm -rf \*

[root@8d893bf42e6e aa]# echo 123 > 1.txt

[root@8d893bf42e6e aa]# ls

1.txt

[root@01627ac8b8b9 /]# ls /data/

1.txt

[root@docker01 ~]# ls /var/data/

1.txt

#验证效果

##docker网络

[root@docker01 ~]# brctl show

bridge name bridge id STP enabled interfaces

docker0 8000.024223ab661a no

[root@docker01 ~]# docker network list

NETWORK ID NAME DRIVER SCOPE

5910c134cafd bridge bridge local

586f1fcdc105 host host local

402769ee56c2 none null

[root@docker01 ~]# docker network create --driver bridge test01

ec55275daac76bb6ac43654ab1920c76d59c0a8e130a31f76a618e875eef6fe1

[root@docker01 ~]# docker network list

NETWORK ID NAME DRIVER SCOPE

5910c134cafd bridge bridge local

586f1fcdc105 host host local

402769ee56c2 none null local

ec55275daac7 test01 bridge local

[root@docker01 ~]# ifconfig

br-ec55275daac7: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500

inet 172.18.0.1 netmask 255.255.0.0 broadcast 0.0.0.0

ether 02:42:c5:e2:1c:01 txqueuelen 0 (Ethernet)

RX packets 0 bytes 0 (0.0 B)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 0 bytes 0 (0.0 B)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

docker0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500

inet 172.17.0.1 netmask 255.255.0.0 broadcast 0.0.0.0

inet6 fe80::42:23ff:feab:661a prefixlen 64 scopeid 0x20<link>

ether 02:42:23:ab:66:1a txqueuelen 0 (Ethernet)

RX packets 24 bytes 1608 (1.5 KiB)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 8 bytes 648 (648.0 B)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500

inet 192.168.4.1 netmask 255.255.255.0 broadcast 192.168.4.255

inet6 fe80::5054:ff:febe:aa01 prefixlen 64 scopeid 0x20<link>

ether 52:54:00:be:aa:01 txqueuelen 1000 (Ethernet)

RX packets 3053 bytes 223024 (217.7 KiB)

RX errors 0 dropped 56 overruns 0 frame 0

TX packets 885 bytes 108106 (105.5 KiB)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

eth1: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500

ether 52:54:00:31:bb:01 txqueuelen 1000 (Ethernet)

RX packets 1489 bytes 77660 (75.8 KiB)

RX errors 0 dropped 56 overruns 0 frame 0

TX packets 0 bytes 0 (0.0 B)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

eth2: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500

ether 52:54:00:b9:cc:01 txqueuelen 1000 (Ethernet)

RX packets 1489 bytes 77660 (75.8 KiB)

RX errors 0 dropped 56 overruns 0 frame 0

TX packets 0 bytes 0 (0.0 B)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

eth3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500

ether 52:54:00:4c:dd:01 txqueuelen 1000 (Ethernet)

RX packets 1489 bytes 77660 (75.8 KiB)

RX errors 0 dropped 56 overruns 0 frame 0

TX packets 0 bytes 0 (0.0 B)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536

inet 127.0.0.1 netmask 255.0.0.0

inet6 ::1 prefixlen 128 scopeid 0x10<host>

loop txqueuelen 1 (Local Loopback)

RX packets 0 bytes 0 (0.0 B)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 0 bytes 0 (0.0 B)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

[root@docker01 ~]# docker network inspect test01

[

{

"Name": "test01",

"Id": "ec55275daac76bb6ac43654ab1920c76d59c0a8e130a31f76a618e875eef6fe1",

"Scope": "local",

"Driver": "bridge",

"EnableIPv6": false,

"IPAM": {

"Driver": "default",

"Options": {},

"Config": [

{

"Subnet": "172.18.0.0/16",

"Gateway": "172.18.0.1/16"

}

]

},

"Internal": false,

"Containers": {},

"Options": {},

"Labels": {}

}

]

[root@docker01 ~]# docker network list

NETWORK ID NAME DRIVER SCOPE

5910c134cafd bridge bridge local

586f1fcdc105 host host local

402769ee56c2 none null local

[root@docker01 ~]# docker network create --driver bridge --subnet "192.168.100.254/24" test02

d586e30442dda3fe67236a1caf9d1db57e32e8142e15fa985ff44e2997c2bdef

[root@docker01 ~]# docker network list

NETWORK ID NAME DRIVER SCOPE

5910c134cafd bridge bridge local

586f1fcdc105 host host local

402769ee56c2 none null local

d586e30442dd test02 bridge local

[root@docker01 ~]# ifconfig

br-d586e30442dd: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500

inet 192.168.100.1 netmask 255.255.255.0 broadcast 0.0.0.0

ether 02:42:35:5b:fb:47 txqueuelen 0 (Ethernet)

RX packets 4 bytes 340 (340.0 B)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 4 bytes 340 (340.0 B)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

docker0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500

inet 172.17.0.1 netmask 255.255.0.0 broadcast 0.0.0.0

inet6 fe80::42:23ff:feab:661a prefixlen 64 scopeid 0x20<link>

ether 02:42:23:ab:66:1a txqueuelen 0 (Ethernet)

RX packets 24 bytes 1608 (1.5 KiB)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 8 bytes 648 (648.0 B)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500

inet 192.168.4.1 netmask 255.255.255.0 broadcast 192.168.4.255

inet6 fe80::5054:ff:febe:aa01 prefixlen 64 scopeid 0x20<link>

ether 52:54:00:be:aa:01 txqueuelen 1000 (Ethernet)

RX packets 3596 bytes 265512 (259.2 KiB)

RX errors 0 dropped 56 overruns 0 frame 0

TX packets 1136 bytes 139048 (135.7 KiB)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

eth1: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500

ether 52:54:00:31:bb:01 txqueuelen 1000 (Ethernet)

RX packets 1594 bytes 83120 (81.1 KiB)

RX errors 0 dropped 56 overruns 0 frame 0

TX packets 0 bytes 0 (0.0 B)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

eth2: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500

ether 52:54:00:b9:cc:01 txqueuelen 1000 (Ethernet)

RX packets 1594 bytes 83120 (81.1 KiB)

RX errors 0 dropped 56 overruns 0 frame 0

TX packets 0 bytes 0 (0.0 B)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

eth3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500

ether 52:54:00:4c:dd:01 txqueuelen 1000 (Ethernet)

RX packets 1594 bytes 83120 (81.1 KiB)

RX errors 0 dropped 56 overruns 0 frame 0

TX packets 0 bytes 0 (0.0 B)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536

inet 127.0.0.1 netmask 255.0.0.0

inet6 ::1 prefixlen 128 scopeid 0x10<host>

loop txqueuelen 1 (Local Loopback)

RX packets 4 bytes 340 (340.0 B)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 4 bytes 340 (340.0 B)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

[root@docker01 ~]# docker run -it --network=test02 myos bash

[root@d2ec346d603b /]# ifconfig

eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500

inet 192.168.100.2 netmask 255.255.255.0 broadcast 0.0.0.0

inet6 fe80::42:c0ff:fea8:6402 prefixlen 64 scopeid 0x20<link>

ether 02:42:c0:a8:64:02 txqueuelen 0 (Ethernet)

RX packets 12 bytes 1016 (1016.0 B)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 6 bytes 508 (508.0 B)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536

inet 127.0.0.1 netmask 255.0.0.0

inet6 ::1 prefixlen 128 scopeid 0x10<host>

loop txqueuelen 1 (Local Loopback)

RX packets 0 bytes 0 (0.0 B)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 0 bytes 0 (0.0 B)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

[root@d2ec346d603b /]# ping 192.168.4.1

PING 192.168.4.1 (192.168.4.1) 56(84) bytes of data.

64 bytes from 192.168.4.1: icmp\_seq=1 ttl=64 time=0.881 ms

64 bytes from 192.168.4.1: icmp\_seq=2 ttl=64 time=0.103 ms

^C

--- 192.168.4.1 ping statistics ---

2 packets transmitted, 2 received, 0% packet loss, time 1001ms

rtt min/avg/max/mdev = 0.103/0.492/0.881/0.389 ms

[root@d2ec346d603b /]# ping 172.17.0.1

PING 172.17.0.1 (172.17.0.1) 56(84) bytes of data.

64 bytes from 172.17.0.1: icmp\_seq=1 ttl=64 time=0.053 ms

64 bytes from 172.17.0.1: icmp\_seq=2 ttl=64 time=0.101 ms

^C

--- 172.17.0.1 ping statistics ---

2 packets transmitted, 2 received, 0% packet loss, time 1000ms

rtt min/avg/max/mdev = 0.053/0.077/0.101/0.024 ms