启动网络

```
[root@localhost ~]# service network restart
Restarting network (via systemctl):                    [  OK  ]
[root@localhost ~]# _
```

在Linux虚拟机上安装Docker

1.查看内核版本，需要在3.10以上

uname -r

```
[root@localhost ~]# uname -r
3.10.0-327.el7.x86_64
[root@localhost ~]# _
```

2.把yum包更新到最新版本

sudo yum update

3.安装需要的软件包

sudo yum install -y yum-utils device-mapper-persistent-data lvm2

```
Downloading packages:
(1/3): yum-utils-1.1.31-54.el7_8.noarch.rpm                |  122 kB   00:00
(2/3): python-chardet-2.2.1-3.el7.noarch.rpm               |  227 kB   00:00
(3/3): python-kitchen-1.1.1-5.el7.noarch.rpm               |  267 kB   00:00
--------------------------------------------------------------------------------
Total                                         587 kB/s | 616 kB   00:01
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : python-chardet-2.2.1-3.el7.noarch                         1/3
  Installing : python-kitchen-1.1.1-5.el7.noarch                         2/3
  Installing : yum-utils-1.1.31-54.el7_8.noarch                          3/3
  Verifying  : python-kitchen-1.1.1-5.el7.noarch                         1/3
  Verifying  : yum-utils-1.1.31-54.el7_8.noarch                          2/3
  Verifying  : python-chardet-2.2.1-3.el7.noarch                         3/3

Installed:
  yum-utils.noarch 0:1.1.31-54.el7_8

Dependency Installed:
  python-chardet.noarch 0:2.2.1-3.el7     python-kitchen.noarch 0:1.1.1-5.el7

Complete!
[root@localhost ~]# _
```

4.设置yum源

sudo yum-config-manager --add-repo https://download.docker.com/linux/centos/docker-ce.repo

```
[root@localhost ~]# sudo yum-config-manager --add-repo https://download.docker.c
om/centos/docker-ce.repo
Loaded plugins: fastestmirror, product-id, subscription-manager

This system is not registered with an entitlement server. You can use subscripti
on-manager to register.

adding repo from: https://download.docker.com/centos/docker-ce.repo
grabbing file https://download.docker.com/centos/docker-ce.repo to /etc/yum.repo
s.d/docker-ce.repo
Could not fetch/save url https://download.docker.com/centos/docker-ce.repo to fi
le /etc/yum.repos.d/docker-ce.repo: [Errno 14] HTTPS Error 404 - Not Found
[root@localhost ~]# _
```

5.查看仓库docker版本　yum list docker-ce --showduplicates | sort -r

```
docker-ce.x86_64                  18.03.0.ce-1.el7.centos          docker-ce-stable
docker-ce.x86_64                  17.12.1.ce-1.el7.centos          docker-ce-stable
docker-ce.x86_64                  17.12.0.ce-1.el7.centos          docker-ce-stable
docker-ce.x86_64                  17.09.1.ce-1.el7.centos          docker-ce-stable
docker-ce.x86_64                  17.09.0.ce-1.el7.centos          docker-ce-stable
docker-ce.x86_64                  17.06.2.ce-1.el7.centos          docker-ce-stable
docker-ce.x86_64                  17.06.1.ce-1.el7.centos          docker-ce-stable
docker-ce.x86_64                  17.06.0.ce-1.el7.centos          docker-ce-stable
docker-ce.x86_64                  17.03.3.ce-1.el7                 docker-ce-stable
docker-ce.x86_64                  17.03.2.ce-1.el7.centos          docker-ce-stable
docker-ce.x86_64                  17.03.1.ce-1.el7.centos          docker-ce-stable
docker-ce.x86_64                  17.03.0.ce-1.el7.centos          docker-ce-stable
 * base: ftp.sjtu.edu.cn
Available Packages


[root@localhost ~]#
[root@localhost ~]# _
```

6.安装Docker

  sudo yum install docker-ce

7.启动docker

  systemctl start docker

8.设置开机启动

   systemctl enable docker

```
[root@localhost ~]# systemctl enable docker
Created symlink from /etc/systemd/system/multi-user.target.wants/docker.service
to /usr/lib/systemd/system/docker.service.
```

9.查看是否启动成功

  systemctl status docker.service

```
[root@localhost ~]# systemctl status docker.service
 docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; vendor prese
t: disabled)
   Active: active (running) since Sun 2020-05-31 04:51:21 EDT; 1min 41s ago
     Docs: https://docs.docker.com
 Main PID: 7394 (dockerd)
   CGroup: /system.slice/docker.service
           └─7394 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/cont...

May 31 04:51:20 localhost.localdomain dockerd[7394]: time="2020-05-31T04:51:2...
May 31 04:51:20 localhost.localdomain dockerd[7394]: time="2020-05-31T04:51:2...
May 31 04:51:20 localhost.localdomain dockerd[7394]: time="2020-05-31T04:51:2...
May 31 04:51:20 localhost.localdomain dockerd[7394]: time="2020-05-31T04:51:2...
May 31 04:51:21 localhost.localdomain dockerd[7394]: time="2020-05-31T04:51:2...
May 31 04:51:21 localhost.localdomain dockerd[7394]: time="2020-05-31T04:51:2...
May 31 04:51:21 localhost.localdomain dockerd[7394]: time="2020-05-31T04:51:2...
May 31 04:51:21 localhost.localdomain dockerd[7394]: time="2020-05-31T04:51:2...
May 31 04:51:21 localhost.localdomain systemd[1]: Started Docker Application ...
May 31 04:51:21 localhost.localdomain dockerd[7394]: time="2020-05-31T04:51:2...
Hint: Some lines were ellipsized, use -l to show in full.
[root@localhost ~]# _
```

10.阿里云镜像加速

  vim /etc/docker/daemon.json

  {

      "registry-mirrors":["http://hub-mirror.c.163.com"]

  }

在Docker上安装MySql

1.下载mysql5.7的docker镜像

    docker pull mysql:5.7

```
[root@localhost ~]# docker pull mysql:5.7
5.7: Pulling from library/mysql
afb6ec6fdc1c: Pull complete
0bdc5971ba40: Pull complete
97ae94a2c729: Pull complete
f777521d340e: Pull complete
1393ff7fc871: Pull complete
a499b89994d9: Pull complete
7ebe8eefbafe: Pull complete
4eec965ae405: Pull complete
a531a782d709: Pull complete
270aeddb45e3: Pull complete
b25569b61008: Pull complete
Digest: sha256:d16d9ef7a4ecb29efcd1ba46d5a82bda3c28bd18c0f1e3b86ba54816211e1ac4
Status: Downloaded newer image for mysql:5.7
docker.io/library/mysql:5.7
[root@localhost ~]#
```

2.使用docker命令启动

```
[root@localhost ~]# docker run -p 3306:3306 --name mysql \
> -v /mydata/mysql/log:/var/log/mysql \
> -v /mydata/mysql/data:/var/lib/mysql \
> -v /mydata/mysql/conf:/etc/mysql \
> -e MYSQL_ROOT_PASSWORD=root \
> -d mysql:5.7
8484a7db572190d1f02ec09583bdc390467cef7ebf5a887af7938d4bcf815231
[root@localhost ~]#
```

3.运行mysql的docker容器，使用mysql命令打开客户端

```
[root@localhost ~]# docker exec -it mysql /bin/bash
root@8484a7db5721:/# mysql -uroot -proot --default-character-set=utf8
mysql: [Warning] Using a password on the command line interface can be insecur
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 2
Server version: 5.7.30 MySQL Community Server (GPL)

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement

mysql>
```

4.创建数据库

```
mysql> create database mall character set utf8
    -> ;
Query OK, 1 row affected (0.00 sec)

mysql>
```

网络错误：

```
c8 /usr/lib/systemd/system/docker.service.
[root@localhost ~]# systemctl start docker
Job for docker.service failed because the control process exited with error code
. See "systemctl status docker.service" and "journalctl -xe" for details.
[root@localhost ~]#
```

按照上面步骤设置yum源，即可解决