



链滴

CentOS 升级 docker 版本到最新版本

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来源网站: [链滴](#)

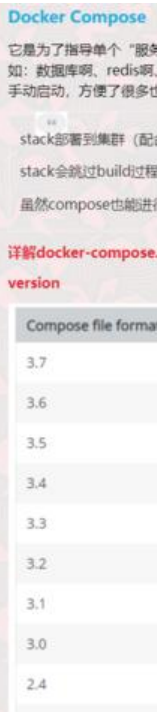
许可协议: [署名-相同方式共享 4.0 国际 \(CC BY-SA 4.0\)](#)



今天在搭建code-push-server中，通过docker-stack deploy部署时，报了个错，错误内容如下：

```
[code-push@VM_0_13_centos docker]$ sudo docker stack deploy -c docker-compose.yml code-push-server
unsupported Compose file version: 3.7
```

查了一些资料，找到这篇文章 # [Dockerfile & Docker Swarm & Docker Stack & Docker Compose](#) 作者对Dockerfile、Docker Swarm、Docker Stack、Docker Compose几个指令做了详细的解释。



在Docker Compose版本与docker版本的对应关系中找到了我这个错误的原因，是因为我当前docker版本是1.13.1(可以通过docker info或者docker version查看当前docker版本)，而我下载的code-pus

-server里的compose版本是3.7，所以报错了。那么接下来就是要升级一下docker版本了。

升级docker到最新版本

- **第一步：查找主机上关于Docker的软件包**

`rpm -qa | grep docker` -- 列出包含docker字段的软件的信息

```
[root@VM_0_13_centos ~]# rpm -qa | grep docker
docker-1.13.1-103.git7f2769b.el7.centos.x86_64
docker-client-1.13.1-103.git7f2769b.el7.centos.x86_64
docker-common-1.13.1-103.git7f2769b.el7.centos.x86_64
```

- **第二步：使用yum remove 卸载软件**

```
[root@VM_0_13_centos ~]# yum remove docker-1.13.1-103.git7f2769b.el7.centos.x86_64
[root@VM_0_13_centos ~]# yum remove docker-client-1.13.1-103.git7f2769b.el7.centos.x86_64
[root@VM_0_13_centos ~]# yum remove docker-common-1.13.1-103.git7f2769b.el7.centos.x86_64
```

- **第三步：使用curl升级到最新版本**

```
[root@VM_0_13_centos ~]# curl -fsSL https://get.docker.com/ | sh
# Executing docker install script, commit: f45d7c11389849ff46a6b4d94e0dd1ffebca32c1
+ sh -c 'yum install -y -q yum-utils'
Repository epel is listed more than once in the configuration
Package yum-utils-1.1.31-52.el7.noarch already installed and latest version
+ sh -c 'yum-config-manager --add-repo https://download.docker.com/linux/centos/docker-ce.repo'
Loaded plugins: fastestmirror, langpacks
Repository epel is listed more than once in the configuration
adding repo from: https://download.docker.com/linux/centos/docker-ce.repo
grabbing file https://download.docker.com/linux/centos/docker-ce.repo to /etc/yum.repos.d/docker-ce.repo
repo saved to /etc/yum.repos.d/docker-ce.repo
+ '[' stable '!=' stable ']'
+ sh -c 'yum makecache'
Loaded plugins: fastestmirror, langpacks
Repository epel is listed more than once in the configuration
Loading mirror speeds from cached hostfile
* elrepo: mirrors.tuna.tsinghua.edu.cn
docker-ce-stable | 3.5
kB 00:00:00
http://mirror-hk.kodoss.net/elrepo/elrepo/el7/x86_64/repo/repodata/repomd.xml: [Errno 14] curl#
- "Failed connect to mirror-hk.kodoss.net:80; No route to host"
Trying other mirror.
elrepo | 2.9 kB
0:00:00
Not using downloaded elrepo/repomd.xml because it is older than what we have:
  Current   : Sun Nov  3 16:15:03 2019
  Downloaded: Sun Nov  3 13:15:03 2019
epel | 5.4 kB 0
:00:00
```

```

extras | 2.9 kB
0:00:00
os | 3.6 kB 00
00:00
updates | 2.9 kB
00:00:00
(1/14): docker-ce-stable/x86_64/updateinfo
| 55 B 00:00:00
(2/14): docker-ce-stable/x86_64/filelists_db
| 18 kB 00:00:00
(3/14): docker-ce-stable/x86_64/primary_db
| 37 kB 00:00:00
(4/14): epel/7/x86_64/prestodelta
| 5.2 kB 00:00:00
(5/14): docker-ce-stable/x86_64/other_db
| 111 kB 00:00:00
(6/14): epel/7/x86_64/other_db
| 3.3 MB 00:00:00
(7/14): epel/7/x86_64/updateinfo_zck
| 1.5 MB 00:00:00
(8/14): extras/7/x86_64/other_db
| 100 kB 00:00:00
(9/14): os/7/x86_64/other_db
2.6 MB 00:00:00
(10/14): extras/7/x86_64/filelists_db
| 207 kB 00:00:00
(11/14): updates/7/x86_64/other_db
| 243 kB 00:00:00
(12/14): updates/7/x86_64/filelists_db
| 2.1 MB 00:00:00
(13/14): os/7/x86_64/filelists_db |
7.3 MB 00:00:00
(14/14): epel/7/x86_64/filelists_db
12 MB 00:00:02
(1/2): elrepo/other_db | 3
kB 00:00:00
(2/2): elrepo/filelists_db | 39
kB 00:00:00

```

Metadata Cache Created

```
+ '[' -n '' ']'
```

```
+ sh -c 'yum install -y -q docker-ce'
```

Repository epel is listed more than once in the configuration

warning: /var/cache/yum/x86_64/7/docker-ce-stable/packages/docker-ce-19.03.4-3.el7.x86_64.rpm: Header V4 RSA/SHA512 Signature, key ID 621e9f35: NOKEY

Public key for docker-ce-19.03.4-3.el7.x86_64.rpm is not installed

Importing GPG key 0x621E9F35:

Userid : "Docker Release (CE rpm) <docker@docker.com>"

Fingerprint: 060a 61c5 1b55 8a7f 742b 77aa c52f eb6b 621e 9f35

From : https://download.docker.com/linux/centos/gpg

If you would like to use Docker as a non-root user, you should now consider adding your user to the "docker" group with something like:

```
sudo usermod -aG docker your-user
```

Remember that you will have to log out and back in for this to take effect!

WARNING: Adding a user to the "docker" group will grant the ability to run containers which can be used to obtain root privileges on the docker host.

Refer to <https://docs.docker.com/engine/security/security/#docker-daemon-attack-surface> for more information.

- **第四步：重启Docker**

```
[root@VM_0_13_centos ~]# systemctl restart docker
```

- **第五步：设置Docker开机自启**

```
[root@VM_0_13_centos ~]# systemctl enable docker
```

- **第六步：查看docker信息**

```
[root@VM_0_13_centos ~]# docker version
```

```
Client: Docker Engine - Community
```

```
Version: 19.03.4
```

```
API version: 1.40
```

```
Go version: go1.12.10
```

```
Git commit: 9013bf583a
```

```
Built: Fri Oct 18 15:52:22 2019
```

```
OS/Arch: linux/amd64
```

```
Experimental: false
```

```
Server: Docker Engine - Community
```

```
Engine:
```

```
Version: 19.03.4
```

```
API version: 1.40 (minimum version 1.12)
```

```
Go version: go1.12.10
```

```
Git commit: 9013bf583a
```

```
Built: Fri Oct 18 15:50:54 2019
```

```
OS/Arch: linux/amd64
```

```
Experimental: false
```

```
containerd:
```

```
Version: 1.2.10
```

```
GitCommit: b34a5c8af56e510852c35414db4c1f4fa6172339
```

```
runc:
```

```
Version: 1.0.0-rc8+dev
```

```
GitCommit: 3e425f80a8c931f88e6d94a8c831b9d5aa481657
```

```
docker-init:
```

```
Version: 0.18.0
```

```
GitCommit: fec3683
```

可以看到docker版本已经升级到了19.03.4

重启旧容器

升级完Docker版本之后，原先的镜像需要重新启动，通过`docker images`命令可以看到之前的镜像使用`docker ps -a`可以看到停止的容器。

```
[root@VM_0_13_centos ~]# docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
nginx	latest	5a9061639d0a	2 weeks ago	126MB
b3log/solo	latest	dcdb7cb3ca38	2 weeks ago	151MB
b3log/lute-http	latest	1aa3c892dc68	4 weeks ago	20.9MB

```
[root@VM_0_13_centos ~]# docker ps -a
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS
68ce54922a68	dcdb7cb3ca38	"java -cp WEB-INF/li..."	2 weeks ago	Exited (143)
3 minutes ago	solo			
9ec87b60e275	5a9061639d0a	"nginx -g 'daemon of..."	2 weeks ago	Exited (0) 3
minutes ago	nginx			
2c8ba9a68c0c	383867b75fd2	"docker-entrypoint.s..."	3 weeks ago	Exited (0) 3
minutes ago	mysql			

- **第七步：使用 `docker start container-name/container-id` 启动容器**

```
[root@VM_0_13_centos ~]# docker start nginx
Error response from daemon: Unknown runtime specified docker-runc
Error: failed to start containers: nginx
```

这里报了个错： Error response from daemon: Unknown runtime specified docker-runc

查阅资料后得知这是当您从不兼容的版本升级docker并且升级后无法启动docker容器时会出现这种情况，解决办法如下

```
[root@VM_0_13_centos ~]# grep -rl 'docker-runc' /var/lib/docker/containers/ | xargs sed -i 's
docker-runc/runc/g'
[root@VM_0_13_centos ~]# systemctl stop docker
[root@VM_0_13_centos ~]# systemctl start docker
```

然后再启动之前的容器就可以了。