2.4 CentOS 8 安装

菜鸟教程：CentOS Docker 安装

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1. 卸载旧版本

```
1  $ sudo yum remove docker \
2                    docker-client \
3                    docker-client-latest \
4                    docker-common \
5                    docker-latest \
6                    docker-latest-logrotate \
7                    docker-logrotate \
8                    docker-engine
```
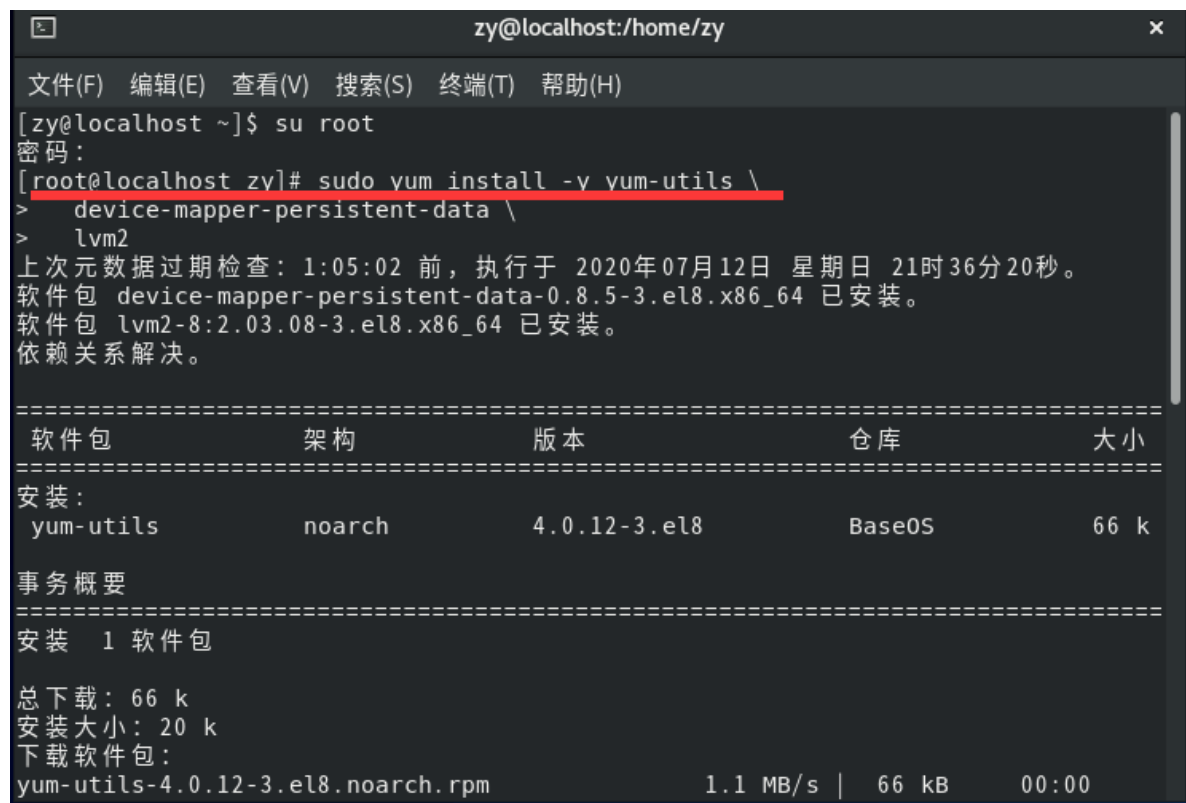
使用 Docker 仓库进行安装

在新主机上首次安装 Docker Engine-Community 之前，需要设置 Docker 仓库。之后，您可以从仓库安装和更新 Docker。

2. 设置仓库

安装所需的软件包。yum-utils 提供了 yum-config-manager，并且 device mapper 存储驱动程序需要 device-mapper-persistent-data 和 lvm2。

```
1  $ sudo yum install -y yum-utils device-mapper-persistent-data  lvm2
```

使用以下命令来设置稳定的仓库。可以选择国内的一些源地址：阿里云

```
1  $ sudo yum-config-manager \
2      --add-repo \
3      http://mirrors.aliyun.com/docker-ce/linux/centos/docker-ce.repo
```

```
[root@localhost zy]# sudo yum-config-manager \
>     --add-repo \
>     http://mirrors.aliyun.com/docker-ce/linux/centos/docker-ce.repo
添加仓库自: http://mirrors.aliyun.com/docker-ce/linux/centos/docker-ce.repo
[root@localhost zy]#
```

3. 安装 Docker Engine-Community

安装最新版本的 Docker Engine-Community 和 containerd，或者转到下一步安装特定版本：

```
1  $ sudo yum install docker-ce docker-ce-cli containerd.io
```

```
[root@localhost zy]#
[root@localhost zy]# sudo yum-config-manager \
>     --add-repo \
>     http://mirrors.aliyun.com/docker-ce/linux/centos/docker-ce.repo
添加仓库自: http://mirrors.aliyun.com/docker-ce/linux/centos/docker-ce.repo
[root@localhost zy]#
[root@localhost zy]# sudo yum install docker-ce docker-ce-cli containerd.io
Docker CE Stable - x86_64                        43 kB/s |  25 kB     00:00
错误:
问题: package docker-ce-3:19.03.12-3.el7.x86_64 requires containerd.io >= 1.2.2
-3, but none of the providers can be installed
  - cannot install the best candidate for the job
  - package containerd.io-1.2.10-3.2.el7.x86_64 is filtered out by modular filte
ring
  - package containerd.io-1.2.13-3.1.el7.x86_64 is filtered out by modular filte
ring
  - package containerd.io-1.2.13-3.2.el7.x86_64 is filtered out by modular filte
ring
  - package containerd.io-1.2.2-3.3.el7.x86_64 is filtered out by modular filter
ing
  - package containerd.io-1.2.2-3.el7.x86_64 is filtered out by modular filterin
g
```

出现错误：docker-ce-3：19.xxxxx要求 containerd.io 版本大于 1.2.2-3，但是这里并没有提供者支持安装

使用up主提供的安装方法安装一个 1.2.6版本的

```
1  yum install
   https://download.docker.com/linux/fedora/30/x86_64/stable/Packages/containerd
   .io-1.2.6-3.3.fc30.x86_64.rpm
```

```
[root@localhost zy]# yum install https://download.docker.com/linux/fedora/30/x86_64/stable/Packages/containerd.io-1.2.6-3.3
6_64.rpm
上次元数据过期检查: 0:03:35 前，执行于 2020年07月12日 星期日 22时46分17秒。
containerd.io-1.2.6-3.3.fc30.x86_64.rpm                    988 kB/s | 21 MB    00:22
依赖关系解决。
================================================================================
 软件包              架构            版本                仓库            大小
================================================================================
安装:
 containerd.io       x86_64        1.2.6-3.3.fc30        @commandline     21 M
     替换   runc.x86_64 1.0.0-65.rc10.module_el8.2.0+305+5e198a41

事务概要
================================================================================
安装  1 软件包

总计: 21 M
确定吗? [y/N]: y
下载软件包:
运行事务检查
事务检查成功。
运行事务测试
事务测试成功。
运行事务
  准备中    :                                                               1/1
  安装      : containerd.io-1.2.6-3.3.fc30.x86_64                           1/2
  运行脚本: containerd.io-1.2.6-3.3.fc30.x86_64                             1/2
  废弃      : runc-1.0.0-65.rc10.module_el8.2.0+305+5e198a41.x86_64         2/2
  运行脚本: runc-1.0.0-65.rc10.module_el8.2.0+305+5e198a41.x86_64           2/2
  验证      : containerd.io-1.2.6-3.3.fc30.x86_64                           1/2
  验证      : runc-1.0.0-65.rc10.module_el8.2.0+305+5e198a41.x86_64         2/2
Installed products updated.

已安装:
  containerd.io-1.2.6-3.3.fc30.x86_64
```

安装好出错步骤后，继续上一步未完成的

```
1  $ sudo yum install docker-ce docker-ce-cli containerd.io
```

```
[root@localhost zy]# sudo yum install docker-ce docker-ce-cli containerd.io
上次元数据过期检查: 0:12:11 前，执行于 2020年07月12日 星期日 22时46分17秒。
软件包 containerd.io-1.2.6-3.3.fc30.x86_64 已安装。
依赖关系解决。
================================================================================================
 软件包              架构            版本                仓库                大小
================================================================================================
安装:
 docker-ce           x86_64        3:19.03.12-3.el7        docker-ce-stable     24 M
 docker-ce-cli       x86_64        1:19.03.12-3.el7        docker-ce-stable     38 M
安装依赖关系:
 libcgroup           x86_64        0.41-19.el8             BaseOS               70 k

事务概要
================================================================================================
安装  3 软件包

总下载: 62 M
安装大小: 263 M
确定吗? [y/N]: y
下载软件包:
(1/3): libcgroup-0.41-19.el8.x86_64.rpm                          1.3 MB/s | 70 kB    00:00
(2/3): docker-ce-19.03.12-3.el7.x86_64.rpm                       3.4 MB/s | 24 MB    00:07
(3/3): docker-ce-cli-19.03.12-3.el7.x86_64.rpm                   3.9 MB/s | 38 MB    00:09
--------------------------------------------------------------------------------
总计                                                             5.5 MB/s | 62 MB    00:11
警告: /var/cache/dnf/docker-ce-stable-3e5647bf4960c796/packages/docker-ce-19.03.12-3.el7.x86_64.rpm: 头 V4 RSA/SHA512 Signature, 密
钥 ID 621e9f35: NOKEY
Docker CE Stable - x86_64                                         13 kB/s | 1.6 kB    00:00
导入 GPG 公钥 0x621E9F35:
 Userid: "Docker Release (CE rpm) <docker@docker.com>"
 指纹: 060A 61C5 1B55 8A7F 742B 77AA C52F EB6B 621E 9F35
 来自: https://mirrors.aliyun.com/docker-ce/linux/centos/gpg
确定吗? [y/N]: y
导入公钥成功
运行事务检查
事务检查成功。
运行事务测试
```

```
总计                                                                          5.5 MB/s |  62 MB    00:11
警告: /var/cache/dnf/docker-ce-stable-3e5647bf4960c796/packages/docker-ce-19.03.12-3.el7.x86_64.rpm: 头 V4 RSA/SHA512 Signature, 密
钥 ID 621e9f35: NOKEY
Docker CE Stable - x86_64                                                     13 kB/s | 1.6 kB    00:00
导入 GPG 公钥 0x621E9F35:
 Userid: "Docker Release (CE rpm) <docker@docker.com>"
 指纹: 060A 61C5 1B55 8A7F 742B 77AA C52F EB6B 621E 9F35
 来自: https://mirrors.aliyun.com/docker-ce/linux/centos/gpg
确定吗? [y/N]:   y
导入公钥成功
运行事务检查
事务检查成功。
运行事务测试
事务测试成功。
运行事务
  准备中  :                                                                                              1/1
  安装    : docker-ce-cli-1:19.03.12-3.el7.x86_64                                                         1/3
  运行脚本: docker-ce-cli-1:19.03.12-3.el7.x86_64                                                         1/3
  运行脚本: libcgroup-0.41-19.el8.x86_64                                                                  2/3
  安装    : libcgroup-0.41-19.el8.x86_64                                                                  2/3
  运行脚本: libcgroup-0.41-19.el8.x86_64                                                                  2/3
  安装    : docker-ce-3:19.03.12-3.el7.x86_64                                                             3/3
  运行脚本: docker-ce-3:19.03.12-3.el7.x86_64                                                             3/3
  验证    : libcgroup-0.41-19.el8.x86_64                                                                  1/3
  验证    : docker-ce-3:19.03.12-3.el7.x86_64                                                             2/3
  验证    : docker-ce-cli-1:19.03.12-3.el7.x86_64                                                         3/3
Installed products updated.

已安装:
  docker-ce-3:19.03.12-3.el7.x86_64          docker-ce-cli-1:19.03.12-3.el7.x86_64          libcgroup-0.41-19.el8.x86_64

完毕!
[root@localhost zy]#            安装成功
```

我这里是直接docker安装成功了

但是在这一步，up主出现事务错误

解决方案是 删除 podman，移除后再执行上一步未完成命令

```
1 | yum remove podman-manpages-1.4.2-5.module_el8.1.0+237+63e26edc.noarch
```



```
运行事务检查
事务检查成功。
运行事务测试
下载的软件包保存在缓存中，直到下次成功执行事务。
您可以通过执行 'dnf clean packages' 删除软件包缓存。
错误: 事务检查错误:
  file /usr/share/man/man1/docker-attach.1.gz from install of docker-ce-cli-1:19.03.7-3.el7.x86_64 conflicts with file from package podman-manpa
  file /usr/share/man/man1/docker-build.1.gz from install of docker-ce-cli-1:19.03.7-3.el7.x86_64 conflicts with file from package podman-manpag
  file /usr/share/man/man1/docker-commit.1.gz from install of docker-ce-cli-1:19.03.7-3.el7.x86_64 conflicts with file from package podman-manpa
  file /usr/share/man/man1/docker-container-prune.1.gz from install of docker-ce-cli-1:19.03.7-3.el7.x86_64 conflicts with file from package pod
  file /usr/share/man/man1/docker-container.1.gz from install of docker-ce-cli-1:19.03.7-3.el7.x86_64 conflicts with file from package podman-ma
  file /usr/share/man/man1/docker-cp.1.gz from install of docker-ce-cli-1:19.03.7-3.el7.x86_64 conflicts with file from package podman-manpages-
  file /usr/share/man/man1/docker-create.1.gz from install of docker-ce-cli-1:19.03.7-3.el7.x86_64 conflicts with file from package podman-manpa
  file /usr/share/man/man1/docker-diff.1.gz from install of docker-ce-cli-1:19.03.7-3.el7.x86_64 conflicts with file from package podman-manpage
  file /usr/share/man/man1/docker-events.1.gz from install of docker-ce-cli-1:19.03.7-3.el7.x86_64 conflicts with file from package podman-manpa
```



```
[root@localhost ~]# yum remove podman-manpages-1.4.2-5.module_el8.1.0+237+63e26edc.noarch
模块依赖问题

 问题 1: conflicting requests
  - nothing provides module(perl:5.26) needed by module perl-DBD-SQLite:1.58:8010020191114033549:073fa5fe-0.x86_64
 问题 2: conflicting requests
  - nothing provides module(perl:5.26) needed by module perl-DBI:1.641:8010020191113222731:16b3ab4d-0.x86_64
依赖关系解决。
```

```
  验证    : libvarlink-18-3.el8.x86_64
  验证    : oci-systemd-hook-1:0.1.15-2.git2d0b8a3.module_el8.1.0+237+63e26edc.x86_64
  验证    : podman-1.4.2-5.module_el8.1.0+237+63e26edc.x86_64
  验证    : podman-manpages-1.4.2-5.module_el8.1.0+237+63e26edc.noarch

已移除:
  podman-manpages-1.4.2-5.module_el8.1.0+237+63e26edc.noarch      cockpit-podman-4-1.module_el8.1.0+237+63e26edc.noarch      libvarlink-18-3.el8.x86_64
  podman-1.4.2-5.module_el8.1.0+237+63e26edc.x86_64
```

安装完成后启动docker

```
完毕!
[root@localhost zy]# sudo systemctl start docker        启动 docker
[root@localhost zy]# docker version
Client: Docker Engine - Community
 Version:           19.03.12
 API version:       1.40
 Go version:        go1.13.10
 Git commit:        48a66213fe
 Built:             Mon Jun 22 15:46:54 2020
 OS/Arch:           linux/amd64
 Experimental:      false

Server: Docker Engine - Community
 Engine:
  Version:          19.03.12
  API version:      1.40 (minimum version 1.12)
  Go version:       go1.13.10
  Git commit:       48a66213fe
  Built:            Mon Jun 22 15:45:28 2020
  OS/Arch:          linux/amd64
  Experimental:     false
 containerd:
  Version:          1.2.6
  GitCommit:        894b81a4b802e4eb2a91d1ce216b8817763c29fb
 runc:
  Version:          1.0.0-rc8
  GitCommit:        425e105d5a03fabd737a126ad93d62a9eeede87f
 docker-init:
  Version:          0.18.0
  GitCommit:        fec3683
[root@localhost zy]#
```

```
[root@localhost zy]# sudo docker run hello-world
Unable to find image 'hello-world:latest' locally        拉取镜像
latest: Pulling from library/hello-world
0e03bdcc26d7: Pull complete
Digest: sha256:d58e752213a51785838f9eed2b7a498ffa1cb3aa7f946dda11af39286c3db9a9
Status: Downloaded newer image for hello-world:latest

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
 1. The Docker client contacted the Docker daemon.
 2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
    (amd64)
 3. The Docker daemon created a new container from that image which runs the
    executable that produces the output you are currently reading.
 4. The Docker daemon streamed that output to the Docker client, which sent it
    to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
 $ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
 https://hub.docker.com/
```

```
[root@localhost zy]# docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
centos              latest              831691599b88        3 weeks ago         215MB
hello-world         latest              bf756fb1ae65        6 months ago        13.3kB
[root@localhost zy]# docker run -it centos
[root@82d9ce6008f8 /]# docker ps
bash: docker: command not found
[root@82d9ce6008f8 /]#
[root@82d9ce6008f8 /]# [root@localhost zy]#        ctrl+p+q 退出容器但不停止
[root@localhost zy]# docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS
82d9ce6008f8        centos              "/bin/bash"         About a minute ago  Up About a minute
oth
[root@localhost zy]# docker stop 82d9ce6008f8
82d9ce6008f8
[root@localhost zy]# docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS
[root@localhost zy]#
```

```
DOCKER-CE

curl https://download.docker.com/linux/centos/docker-ce.repo -o /etc/yum.repos.d/docker-ce.repo
containerd.io 重要！

yum install https://download.docker.com/linux/fedora/30/x86_64/stable/Packages/containerd.io-1.2.6-3.3.fc30.x86_64.rpm
如果还有报错 （事务检查错误）

yum remove podman-manpages-1.4.2-5.module_el8.1.0+237+63e26edc.noarch
然后就是正常的安装docker

yum -y install docker-ce

systemctl start docker
```