8.创建docker私有仓库

- 1.在公司内部为了提高分享的速度,需要在公司内部自己搭建一个本地的仓库,供私人使用。
- 2.docker官方提供了一个工具docker-registry,我们可以借助这个工具构建私有镜像仓库
 - 首先,使用docker search命令查找registry

```
[root@bigdata-4 ~]# docker search registry
INDEX NAME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OFFICIAL
INDEX
ATED
ATED

Ocker.io

docker.io/distribution/registry

docker.io

docker.io/distribution/registry-windows

docker.io

docker.io/docker.io/stefanscherer/registry-windows

docker.io

docker.io/docker.io/stefanscherer/registry-windows

docker.io

docker.io/docker.io/stefanscherer/registry-docker.io

docker.io/docker.io/anoxis/registry-cli

docker.io

docker.io/docker.io/anoxis/registry-di

docker.io

docker.io/docker.io/pallet/registry-windows

docker.io

docker.io/joll/registry-windocker.io

docker.io/donarbor/registry-oauth-server

docker.io

docker.io/donarbor/registry-photon

docker.io

docker.io/donarbor/registry-docker.io

docker.io/donarbor/registry

docker.io

docker.io/docker.io/registry-docker.io

docker.io/docker.io/maldet/registry

docker.io

docker.io/convox/registry

docker.io

docker.io/convox/registry-image-resource

docker.io/docker.io/goniperity/registryviews

docker.io

docker.io/docker.io/gisjedi/registry-ceph

docker.io

docker.io/docker.io/forieri/registry-ceph

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docker.io/docker.io/forieri/registry-ceph

docker.io

docker.io/docker.io/forieri/registry-ceph

docker.io

docker.io/docker.io/vimware/registry-photon

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docker.io/convox/registry-photon

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docker.io/vimware/registry-photon

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docker.io/convox/registry-photon

docker.io/dochena/registry-photon

docker.io

docker.io/vimware/registry-photon

docker.io/dochena/registry-photon

docker.io/dochena/registry-photon
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     ATED
docker.io
                                                                                                                                                                                                                                                                                                                                                                                                       The Docker Registry 2.0 implementation for... WARNING: NOT the registry official image!!... Containerized docker registry for Windows ... Docker registry build for Raspberry PI 2 a... Docker image registry for the Deis open so... You can list and delete tags from your pri...
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                                                                                                                                                                                                                                                                                                                                                                                                       A specialization of registry:2 configured ... Add swift storage Support to the official ... A nice web interface for managing your Doc... Docker registry authn/authz server backed ...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          [ok]
[ok]
                                                                                                                                                                                                                                                                                                                                                                                                       Docker Image for IBM Cloud private-CE (Com...
Metadata Registry is a tool which helps yo...
Docker images for Docker Registry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          [OK]
                                                                                                                                                                                                                                                                                                                                                                                                       Deep Security Smart Check
registrybot
Reverse proxy of registry mirror image gis...
Kontena Registry
Ceph Rados Gateway (and any other S3 compa...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          [ok]
                                                                                                                                                                                                                                                                                                                                                                                                        Private Docker registry based on registry:2
```

docker pull registry

运行registry: docker run -d -p 5000:5000 -v /root/docker/registry:/tmp/registry registry, 默认情况下,
 仓库会创建在容器中的/tmp/registry目录下,通过-v 指定将镜像文件存放在本地的目录中。

```
[root@bigdata-4 ~]# 11
total 318328
-rw----.
                    1 root
                                                         1500 Dec 3 2018 anaconda-ks.cfg
                                     root
                                                 48 Aug 12 17:11 centos
318273536 Aug 13 10:39 centos.tar.gz
22 Aug 13 11:35 docker
                    2 root
drwxr-xr-x
                                     root
-rw-r--r--
                    1 root
                                     root
                                                    27 Jan 19 2019 spark-warehouse
4096 Aug 13 10:05 util-linux-2.24
7630306 oct 21 2013 util-linux 2.24
51409 May 24
drwxr-xr-x
                   3 root
                                     root
drwxr-xr-x. 3 root root
drwxrwxr-x 25 laowang laowang
                                                        330306 Oct 21 2013 util-linux-2.24.tar.gz
51409 May 24 22:04 zookeeper.out
                   1 root
-rw-r--r--
                                    root
-rw-r--r--.
                    1 root
                                     root
[root@bigdata-4 ~]# cd docker
[root@bigdata-4 docker]# 11
total 0
drwxr-xr-x 2 root root 6 Aug 13 11:35 registry
[root@bigdata-4 docker]# cd registry/
[root@bigdata-4 registry]# ||
total 0
[root@bigdata-4 registry]# ■
```

```
[root@bigdata-4 ~]# docker images
REPOSITORY TAG
my/centos v1.1
dockerlaowang/centos latest
                                                        JIHUS May ZH ZZ.UH ZOOKEEPET.OUL
                                                                                                        CREATED
57 minutes ago
21 hours ago
23 hours ago
23 hours ago
5 months ago
5 months ago
                                                                        IMAGE ID
bfa30befa38e
44a31a354680
                                                                                                                                         SIZE
309 MB
338 MB
332 MB
332 MB
202 MB
25.8 MB
                                       v1.0
v1.0
latest
                                                                       106fafeb1c43
106fafeb1c43
9f38484d220f
f32a97de94e1
my/centos
my/centos_with_python
docker.io/centos latest
Bocker.io/registry latest
Lroot@bigdata-4 ~]# docker ps
CONTAINER ID #MAGE
                                                                                                          CREATED
                                                                 COMMAND
                                                                                                                                           STATUS
                                                                                                                                                                           PORTS
                                                                                                                                                                                                                    NA
MES
06287e3d09be
                                                                 "/entrypoint.sh /e..."
                                 registry
                                                                                                       5 minutes ago
                                                                                                                                           Up 5 minutes
                                                                                                                                                                           0.0.0.0:5000 -> 5000/tcp
                                                                                                                                                                                                                    st
LISTEN
                                                                                                                                   9086/docker-proxy-c
cch 2: AEC 2E6 CTD 29 21 29 Bours 122 Cols Vtorm
```

- 搭建好了私有仓库之后,就可以上传、下载、搜索镜像了。
 - 杳看本机JP是192.168.72.14
 - 。 然后是修改名称

```
[root@bigdata-4 ~]# docker tag 106fafeb1c43 192.168.72.14:5000/centos
[root@bigdata-4 ~]# docker images
REPOSITORY
                                                                                CREATED
                                                                                                       309 MB
338 MB
my/centos
                                v1.1
                                                        bfa30befa38e
                                                                                About an hour ago
dockerlaowang/centos
192.168.72.14:5000/centos
                                                                               21 hours ago
23 hours ago
                                latest
                                                        44a31a354680
                                                        106fafeb1c43
                                                                                                       332 MB
                                latest
                                                                                                       332 MB
332 MB
                                v1.0
                                                        106fafeb1c43
                                                                                23 hours ago
mv/centos
my/centos_with_python
                                                                                23 hours ago
                                                        106fafeb1c43
docker.jo/centos
                                latest
                                                        9f38484d220f
                                                                                5 months ago
                                                                                                       202 MB
                                                                               5 months ago
                                                                                                       25.8 MB
docker.io/registry latest f32a97de94e1
```

○ 上传镜像 docker push 192.168.72.14:5000/centos , 报错

```
[root@bigdata-4 ~]# docker push 192.168.72.14:5000/centos
The push refers to a repository [192.168.72.14:5000/centos]
Get https://192.168.72.14:5000/v1/_ping: http://inscription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scription.com/scri
    [root@bigdata-4 ~]#
```

- 。 解决办法:解决方法是在/etc/docker目录下新建 daemon.json, 文件中写入: { "insecure-registries": ["192.168.72.14:5000"] }
- 然后重启docker:systemctl restart docker 重新运行docker run -d -p 5000:5000 -v /root/docker/registry:/tmp/registry registry, 启动registry服务, 再次运行docker push 192.168.72.14:5000/centos上传镜像到私有仓库。

```
<u>d</u>69483a6face: Pushing [==
                           1 186.6 MB/201.8 MB
```

接下来,我们可以到另一台机器192.168.72.14下载这个镜像了:

```
[root@bigdata-4 ~]# docker pull 192.168.72.14:5000/centos]
Jsing default tag: latest
Trying to pull repository 192.168.72.14:5000/centos ...
latest: Pulling from 192.168.72.14:5000/centos
Digest: sha256:1a94c894b2510f3491684632b09a55c016056338c872be20a2afc589d0dddf1a
status: Image is up to date for 192.168.72.14:5000/centos:latest
```

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