前言

系统环境: Centos7、jdk1.8

docker私服:可以把项目通过dockerfile文件build成docker镜像,供其他环境拉取。部署在本地,私有化。

dockerHUB私服

1. 搭建registry

```
#拉取registry镜像
 2 [root@localhost home]# docker pull registry
3 Using default tag: latest
   latest: Pulling from library/registry
 5 c87736221ed0: Pull complete
6 lcc8e0bb44df: Pull complete
 7 54d33bcb37f5: Pull complete
 8 e8afc091c171: Pull complete
9 b4541f6d3db6: Pull complete
10 Digest: sha256:8004747f1e8cd820a148fb7499d71a76d45ff66bac6a29129bfdbfdc0154d146
11 Status: Downloaded newer image for registry:latest
13 #查看镜像
14 [root@localhost home]# docker images
                                                IMAGE ID
                                                                      CREATED
15 REPOSITORY
                         TAG
                                                                                            STZE
                                                f32a97de94e1
                                                                                            25.8MB
16 registry
                         latest
                                                                      6 months ago
18 #启动容器
19 [root@localhost home]# docker run -d -v /data/registry:/var/lib/registry -p 5000:5000 --restart=always --name qdockerhub registry:latest
20\ 67b0ac40561688b8b874fa9674e44eb069cc6ee443127ba80b140ea51947af7
22 #测试/v2/ catalog接口
23 [root@localhost home]# curl http://127.0.0.1:5000/v2/_catalog 24 {"repositories":[]}
25 [root@localhost home]#
2. 提交镜像
```

```
#拉取tomcat测试提交
 2 [root@localhost home]# docker pull tomcat
3 Using default tag: latest
   latest: Pulling from library/tomcat
 5 092586df9206: Pull complete
6 ef599477fae0: Pull complete
 7 4530c6472b5d: Pull complete
 8 d34d61487075: Pull complete
9 272f46008219: Pull complete
10 12ff6ccfe7a6: Pull complete
11 f26b99e1adb1: Pull complete
12 21bec9c8ea28: Pull complete
13 e2f6023231f2: Pull complete
14 c47e9491a5e3: Pull complete
15 Digest: sha256:74e52cc6d27dacb079b273c129d6bf32df6ba328d6508b81ef65f41675ae9570
16 Status: Downloaded newer image for tomcat:latest
18 #杳看镜像
19 [root@localhost home]# docker images
20 REPOSITORY
                           TAG
                                                   IMAGE ID
                                                                           CREATED
                                                                                                  SIZE
21 tomcat
                                                   365b0a528e2e
                           1atest
                                                                           4 days ago
                                                                                                  506MB
                                                   f32a97de94e1
22 registry
                                                                           6 months ago
                           latest
24 #给镜像重命名, ip:端口/镜像名称
25 [root@localhost home]# docker tag tomcat:latest 127.0.0.1:5000/testtomcat
27 #再次杳看镜像
   [root@localhost home]# docker images
29 REPOSITORY
                                                                                    CREATED
                                                                                                            SIZE
30 127.0.0.1:5000/testtomcat
                                                             365b0a528e2e
                                                                                                            506MB
                                    latest
                                                                                    4 days ago
                                                             365b0a528e2e
                                                                                                            506MB
31 tomcat
                                     latest
                                                                                    4 days ago
34 #提交镜像到到docker私服
35 [root@localhost home]# docker push 127.0.0.1:5000/testtomcat
36 The push refers to repository [127.0.0.1:5000/testtomcat]
37 4a3ccf95eef9: Pushed
38 4437177a7bda: Pushed
39 5161954b2663: Pushed
40 57e6a3d20ce9: Pushed
41 1690af51cb08: Pushed
42 5a30999619d7: Pushed
43 2e669e0134f5: Pushed
44 8bacec4e3446: Pushed
45 26b1991f37bd: Pushed
46 55e6b89812f3: Pushed
47 latest: digest: sha256:416e93b104aa4bceff6005ec6cc4e073196f98d8e3aa4564c3f7d6ad3591d767 size: 2422
49 #curl验证
50 [root@localhost home]# curl http://127.0.0.1:5000/v2/_catalog
51 {"repositories":["testtomcat"]}
```

3. 拉取镜像

```
1 #杳看镜像
   [root@localhost home]# docker images
  REPOSITORY
                                              IMAGE ID
                                                                    CREATED
                                                                                          SIZE
                                              f32a97de94e1
                                                                    6 months ago
                                                                                         25, 8MB
  registry
                        latest
6 #拉取docker私服镜像
   [root@localhost home]# docker pull 127.0.0.1:5000/testtomcat
8 Using default tag: latest
9 latest: Pulling from testtomcat
10 092586df9206: Pull complete
11 ef599477fae0: Pull complete
12 4530c6472b5d: Pull complete
13 d34d61487075: Pull complete
14 272f46008219: Pull complete
15 12ff6ccfe7a6: Pull complete
16 f26b99e1adb1: Pull complete
17 21bec9c8ea28: Pull complete
18 e2f6023231f2: Pull complete
19 c47eb491a5e3: Pull complete
20 Digest: sha256:416e93b104aa4bceff6005ec6cc4e073196f98d8e3aa4564c3f7d6ad3591d767
21 Status: Downloaded newer image for 127.0.0.1:5000/testtomcat:latest
23 #再次查看镜像
24 [root@localhost home]# docker images
25 REPOSITORY
                                                       IMAGE ID
                                                                             CREATED
                                                                                                  SIZE
26 127.0.0.1:5000/testtomcat
                                 latest
                                                       365b0a528e2e
                                                                             4 days ago
                                                                                                  506MB
                                                       f32a97de94e1
                                                                                                  25. 8MB
27 registry
                                                                            6 months ago
                                 latest
```

4.删除私服镜像

```
# 查看当前docker私服中的镜像
       [root@localhost ]# curl http://127.0.0.1:5000/v2/_catalog {"repositories":["mingbytesiteweb"]}
   5 # 查看docker私服容器,重点是 CONTAINER ID
6 [root@localhost ~]# docker ps
        CONTAINER ID
                                                             IMAGE
                                                                                                                                                                                     CREATED
                                                                                                                                                                                                                                                                                                                                                                  NAMES
                                                                                                                                                                                                                                             Up 44 hours
                                                                                                                                                                                                                                                                                                  0.0.0.0:5000->5000/tcp
                                                                                                                                                                                                                                                                                                                                                                    qdockerhub
    8 67b0ac405616
                                                              registry:latest
                                                                                                                     "/entrypoint.sh/etc…"
                                                                                                                                                                                        44 hours ago
  10 # 删除docker私服中的 "mingbytesiteweb" 镜像
 11 # 其中67b0ac405616 为docker私服容器id
 12 [root@localhost ~]# docker exec 67b0ac405616 rm -rf /var/lib/registry/docker/registry/v2/repositories/mingbytesiteweb
 14 # 清除掉blob
 15 # 67b0为docker私服容器id
  16 [root@localhost
                                                    ~]# docker exec 67b0 bin/registry garbage-collect /etc/docker/registry/config.yml
 18 0 blobs marked, 9 blobs and 0 manifests eligible for deletion
 19 blob eligible for deletion: sha256:a381f92f36de52ade5b5610ef1b354713f21902b2ef32abf8f5101daf686e6b4
19 blob eligible for deletion: sha256.asol19213odes2aceb3501(e115347131240222e132ab1815)101(da166e604)
20 blob eligible for deletion: sha256.icce6b5d4a535e729c30f1f9140a61e5fe408250c442ad69569612094970f8035
21 blob eligible for deletion: sha256.id5c237920c394bda8bf1ef31b00bbde458f6978c159303e00d712a95c3f32a40
22 time="2019-09-20T02:53:41.576433178Z" level=info msg="Deleting blob: /docker/registry/v2/blobs/sha256/cs/cce6b5d4a535e729c30f1f9140a61e5fe408250c442ad69569612094*
23 time="2019-09-20T02:53:41.576740825Z" level=info msg="Deleting blob: /docker/registry/v2/blobs/sha256/cs/cce6b5d4a535e729c30f1f9140a61e5fe408250c442ad69569612094*
24 time="2019-09-20T02:53:41.577819834Z" level=info msg="Deleting blob: /docker/registry/v2/blobs/sha256/d5/d5c237920c394bda8bf1ef31b00bbde458f6978c159303e00d712a95-
25 blob eligible for deletion: sha256:f17d81bdb692f7e0d6c1176c86b81d9f2cb5ac5349703adca51c61debcfe413c
 26 \ \ blob \ \ eligible \ \ for \ \ deletion: \ \ sha 256:01 fe 0503 c 7 f 786 c 0613596 ab 151412 f 7 f d 68874 d 80 c 43289 e 5 c 32725 e f 1 c 52 f f 1 c 52 f f 1 c 52 
27 blob eligible for deletion: sha256:082bd21a11cbf8765d11f10147dc59639118b0700c43a6eef427059faa99e939 28 blob eligible for deletion: sha256:396a68a9a5c5ed3ab7b570199a9daee6b468b5cacd4e2a6d0040e3ea7c9bb891
 # 删除完成
```

错误集合

a. 运行错误1

错误提示: [root@izj6c0zsm04q86s2tu4e12z /]# docker run -it docker.io/ubuntu:latest /bin/bash /usr/bin/docker-current: Error response from daemon: oci runtime error: container_linux.go:235: starting container process caused "process_linux.go:258: applying cg

解决办法: yum update

b. 私有仓库push错误(改配置后一定要重启docker)

- docker私有仓库的5000端口是否在防火墙中打开
- daemon.json文件中提交镜像的地址是否修改为私有docker仓库的地址
- 添加镜像仓库地址insecure-registries参数,内容修改如下:

```
vim /etc/docker/daemon.json
{
    "registry-mirrors":["https://registry.docker-cn.com"],
    "insecure-registries":["47.240.32.247:5000"]
```

[root@localhost bin]# systemctl daemon-reload [root@localhost bin]# systemctl restart docker