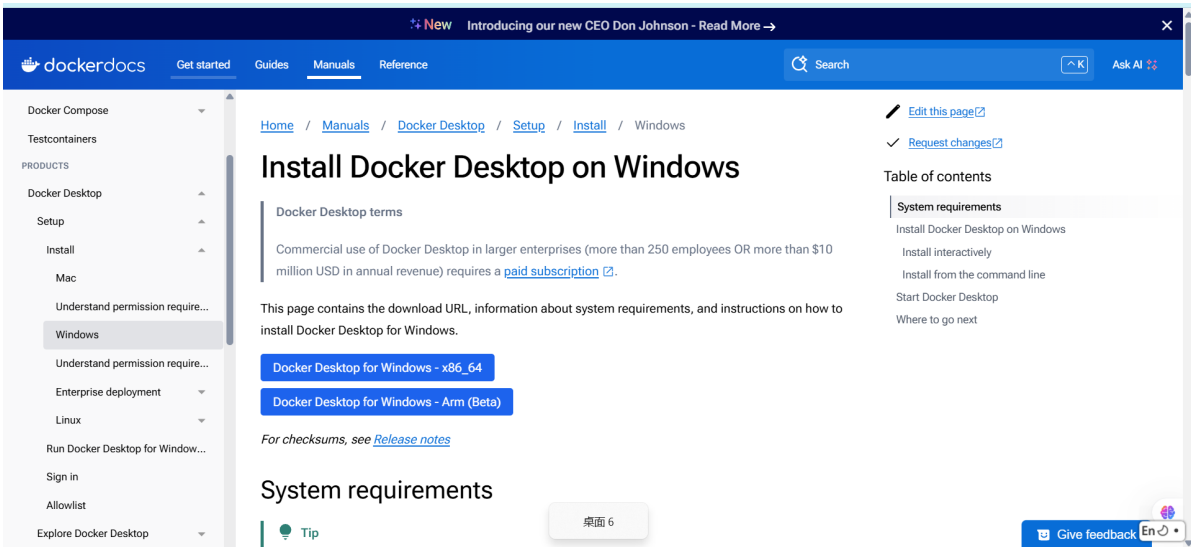
配置OceanBase数据库环境的方法

下载docker

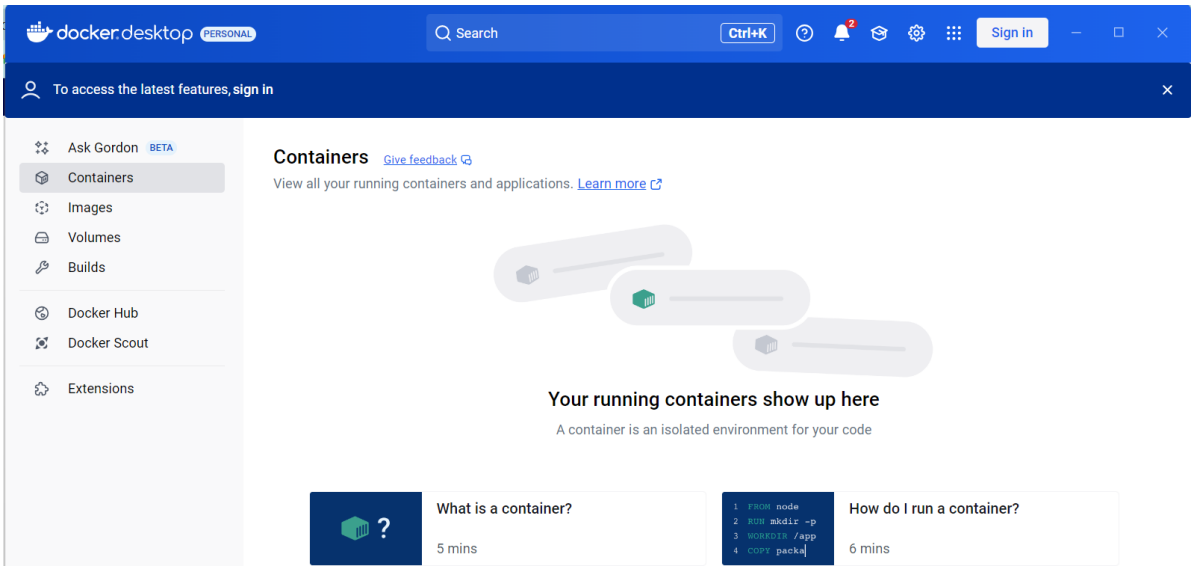
在这个网址：https://docs.docker.com/desktop/setup/install/windows-install/里面有windows版本的docker下载链接：



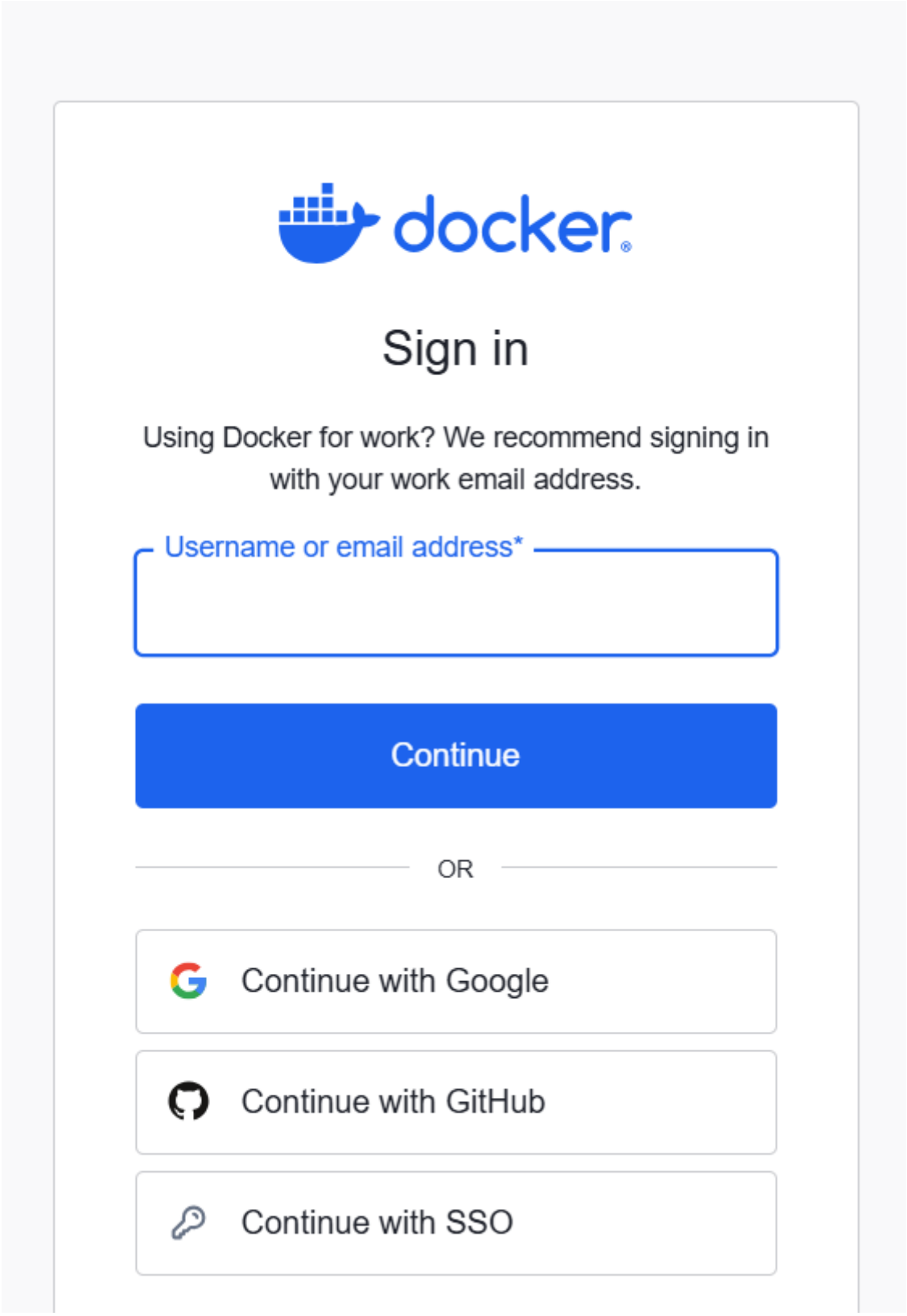
同级目录下也有mac和linux下载的链接。

docker配置

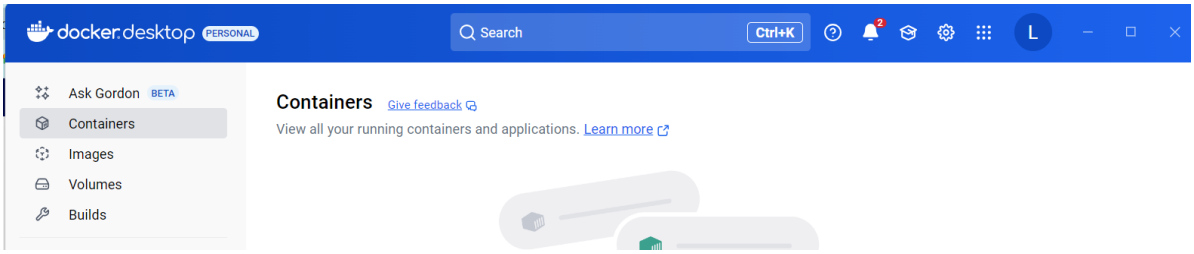
网页登录



点击docker desktop右上角的sign in登录。

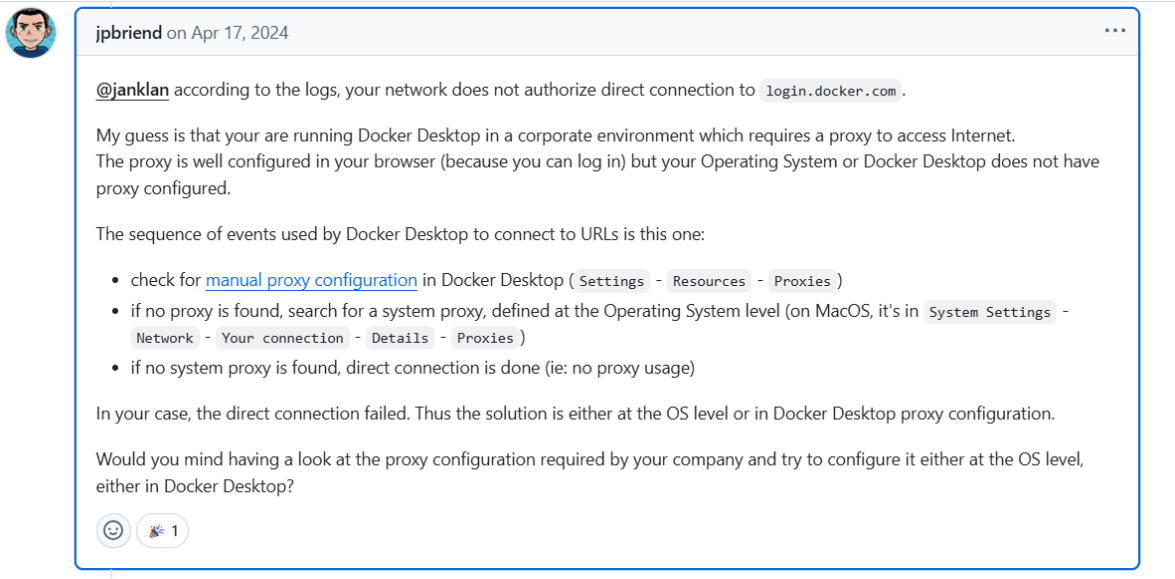


这里推荐大家选github来登录。登录后网页会弹出提示页，点击后回到docker desktop，此时应该已经完成登录，如下图：



（选用）如果网页登录不上去

如果网页登录不上去，先看看是不是代理设置问题，可以参考如下链接：https://blog.csdn.net/Vikanill/article/details/139420782，或者参考下面这张图的解决办法。



jpbriend on Apr 17, 2024

@janklan according to the logs, your network does not authorize direct connection to `login.docker.com`.

My guess is that your are running Docker Desktop in a corporate environment which requires a proxy to access Internet.
The proxy is well configured in your browser (because you can log in) but your Operating System or Docker Desktop does not have proxy configured.

The sequence of events used by Docker Desktop to connect to URLs is this one:

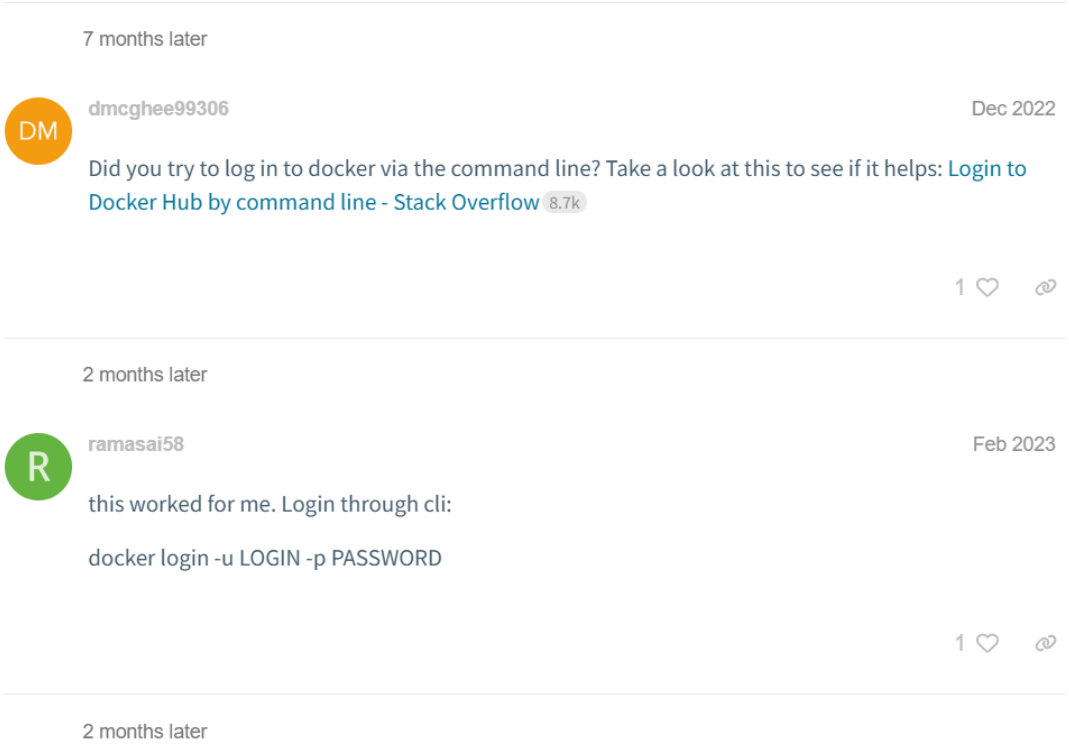
- check for manual proxy configuration in Docker Desktop (`Settings` - `Resources` - `Proxies`)
- if no proxy is found, search for a system proxy, defined at the Operating System level (on MacOS, it's in `System Settings` - `Network` - `Your connection` - `Details` - `Proxies`)
- if no system proxy is found, direct connection is done (ie: no proxy usage)

In your case, the direct connection failed. Thus the solution is either at the OS level or in Docker Desktop proxy configuration.

Would you mind having a look at the proxy configuration required by your company and try to configure it either at the OS level, either in Docker Desktop?

1

如果还是不行，可以考虑从命令行登录，参考：https://stackoverflow.com/questions/57108005/how-to-login-to-docker-hub-on-the-command-line，登录方法如下图：



7 months later

DM dmcghee99306 Dec 2022

Did you try to log in to docker via the command line? Take a look at this to see if it helps: Login to Docker Hub by command line - Stack Overflow 8.7k

1

2 months later

R ramasai58 Feb 2023

this worked for me. Login through cli:

docker login -u LOGIN -p PASSWORD

1

2 months later

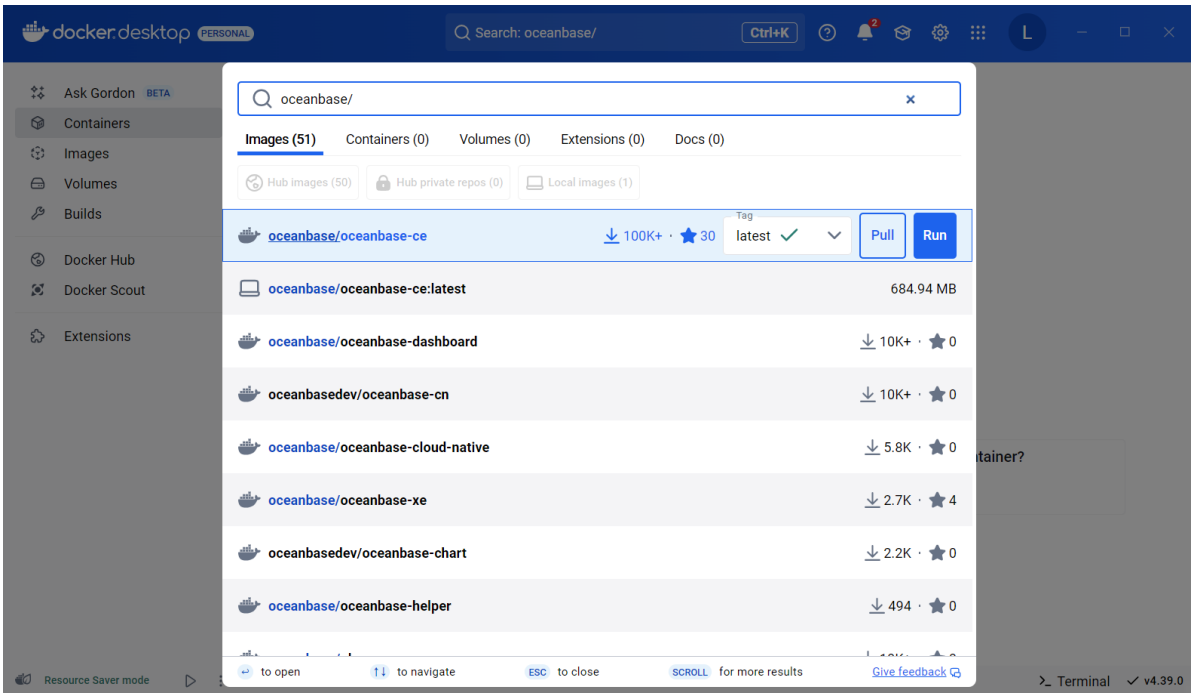
如下是命令行登录成功的结果：

```
C:\Users\LiuYi>docker login -u liuyi61427

i Info → A Personal Access Token (PAT) can be used instead.
         To create a PAT, visit https://app.docker.com/settings


Password:

Login Succeeded
```

如果还有什么登录问题，请把你的问题报告给我们，我们再想办法。

拉取镜像

docker desktop拉取



搜索oceanbase-ce，然后右侧点击Pull即可拉取。如果你拉取不下来，有可能是你第一步使用了邮箱来登录docker。

如果出现其他问题，还请你将问题报告给我们，我们会想办法解决。

命令行拉取

先搜索一下oceanbase的镜像

```
docker search oceanbase
```

```
C:\Users\LiuYi>docker search oceanbase
NAME                                    DESCRIPTION                                     STARS     OFFICIAL
oceanbase/oceanbase-ce                  OceanBase is an open-source, distributed HTA…   30
oceanbase/obproxy-ce                    Proxy for OceanBase                             0
oceanbase/oceanbase-dashboard           Dashboard for managing OceanBase on Kubernet…   0
oceanbase/ob-operator                   Kubernetes operator for OceanBase               0
oceanbase/cert-manager-controller                                                       0
oceanbase/ob-configserver               Configserver for OceanBase                      0
oceanbase/oceanbase-cloud-native        OceanBase image used with ob-operator           0
oceanbase/miniob                        miniob database competition                     2
oceanbase/obagent                       Agent image to collect metrics for OceanBase    0
oceanbase/oblogproxy-ce                                                                 0
oceanbase/kube-rbac-proxy                                                               0
oceanbase/cert-manager-cainjector                                                       0
oceanbase/obce-mini                     obce-mini is a mini standalone test image fo…   5
oceanbase/oceanbase-xe                  OceanBase Database 2.2 Express Edition          4
oceanbase/cert-manager-webhook                                                          0
oceanbase/ocp-ce                        OceanBase Cloud Platform (OCP) Community Edi…   1
oceanbase/obdiag-builder                                                                0
oceanbase/odc                           ODC is an open-source, enterprise-grade data…   0
oceanbase/oms-ce                                                                        1
oceanbase/oceanbase-helper                                                              0
apecloud/oceanbase                                                                      0
oceanbase/centos7                                                                       0
oceanbase/oceanbase-sealer              Sealer cluster and app image of OceanBase       0
oceanbase/oceanbase-todo                                                                0
oceanbase/cert-manager-acmesolver                                                       0

C:\Users\LiuYi>
```

使用如下方法拉取镜像：

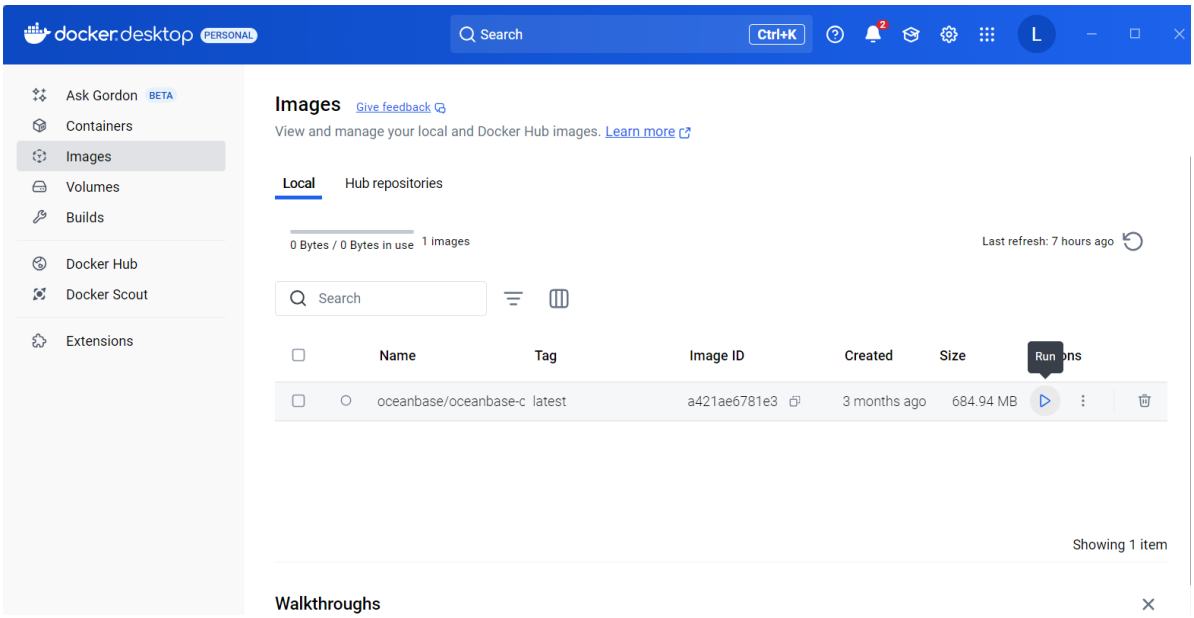
```
docker pull oceanbase/oceanbase-ce:latest
```

```
C:\Users\LiuYi>docker pull oceanbase/oceanbase-ce:latest
latest: Pulling from oceanbase/oceanbase-ce
Digest: sha256:13cd5a03f632a2fcd254005c0182d55890e1f783bec2a15e77f5b783a2e3547f
Status: Image is up to date for oceanbase/oceanbase-ce:latest
docker.io/oceanbase/oceanbase-ce:latest

C:\Users\LiuYi>
```

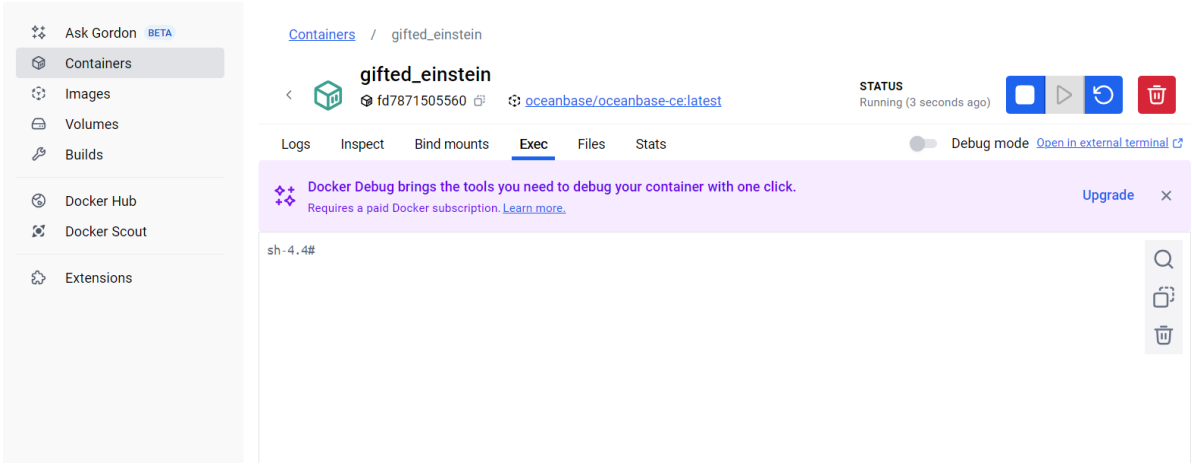
运行环境

docker desktop运行

点击Images也里面镜像的run按钮：



然后再Exec栏就可以看到运行中环境（后续操作在这里面进行）。



命令行运行

使用如下命令运行镜像：

```
docker run -p 2881:2881 --name obstandalone -e MODE=MINI -e
OB_TENANT_PASSWORD=123456 -d oceanbase/oceanbase-ce
```

使用如下命令查看镜像状态：

```
docker logs obstandalone
```

```
cluster scenario: express_oltp
Start observer ok
observer program health check ok
Connect to observer ok
Cluster bootstrap ok
obshell start ok
obshell program health check ok
obshell bootstrap ok
Connect to observer ok
Wait for observer init ok
+-----------------------------------------------+
|                  oceanbase-ce                 |
+------------+----------+------+-------+--------+
| ip         | version  | port | zone  | status |
+------------+----------+------+-------+--------+
| 172.17.0.2 | 4.2.1.10 | 2881 | zone1 | ACTIVE |
+------------+----------+------+-------+--------+
obclient -h172.17.0.2 -P2881 -uroot -Doceanbase -A

cluster unique id: 1ad74cfd-9b16-5b76-b1e9-6b919367666d-195f1f99cfc-0a010204

obcluster running
Trace ID: 19524ad6-0f0e-11f0-a178-4eaec468f8a8
If you want to view detailed obd logs, please run: obd display-trace 19524ad6-0f0e-11f0-a178-4eaec468f8a8
Get local repositories ok
Open ssh connection ok
Connect to observer ok

C:\Users\LiuYi>
```

进行容器环境：

```
docker exec -it obstandalone bash
```

```
C:\Users\LiuYi>docker exec -it obstandalone bash
[root@544e9629f927 ~]#
```

查看oceanbase配置：

```
obd cluster display obcluster
```

```
[root@544e9629f927 ~]# obd cluster display obcluster
Get local repositories and plugins ok
Open ssh connection ok
Connect to observer 172.17.0.2:2881 ok
Wait for observer init ok
+-----------------------------------------------+
|                  oceanbase-ce                 |
+------------+----------+------+-------+--------+
| ip         | version  | port | zone  | status |
+------------+----------+------+-------+--------+
| 172.17.0.2 | 4.2.1.10 | 2881 | zone1 | ACTIVE |
+------------+----------+------+-------+--------+
obclient -h172.17.0.2 -P2881 -uroot -Doceanbase -A

cluster unique id: 1ad74cfd-9b16-5b76-b1e9-6b919367666d-195f1f99cfc-0a010204

Trace ID: bdf744ce-0f0e-11f0-ac75-4eaec468f8a8
If you want to view detailed obd logs, please run: obd display-trace bdf744ce-0f0e-11f0-ac75-4eaec468f8a8
[root@544e9629f927 ~]#
```

obclient连接：

```
obclient -h127.0.0.1（替换为如上的地址） -uroot@test -A -Doceanbase -P2881 -p123456
```

```
[root@544e9629f927 ~]# obclient -h172.17.0.2 -uroot@test -A -Doceanbase  -P2881 -p123456
Welcome to the OceanBase.  Commands end with ; or \g.
Your OceanBase connection id is 3221487632
Server version: OceanBase_CE 4.2.1.10 (r110000072024112010-28c1343085627e79a4f13c29121646bb889

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

obclient(root@test)[oceanbase]>
```

用如下命令查看数据库：

```
1 show databases;
```

```
obclient(root@test)[oceanbase]> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| oceanbase          |
| test               |
+--------------------+
4 rows in set (0.003 sec)

obclient(root@test)[oceanbase]>
```