

前置环境（Windows用户）

1. docker
2. git
3. vscode

实验室电脑已安装好上述软件，如需在本地开发miniob可参考官方教程下载以上环境：[miniob环境搭建](#)。有些同学如果docker启动时一直卡在starting界面可能是因为没有开启hyper-v。

minob代码下载及运行

1. 通过git下载官方代码

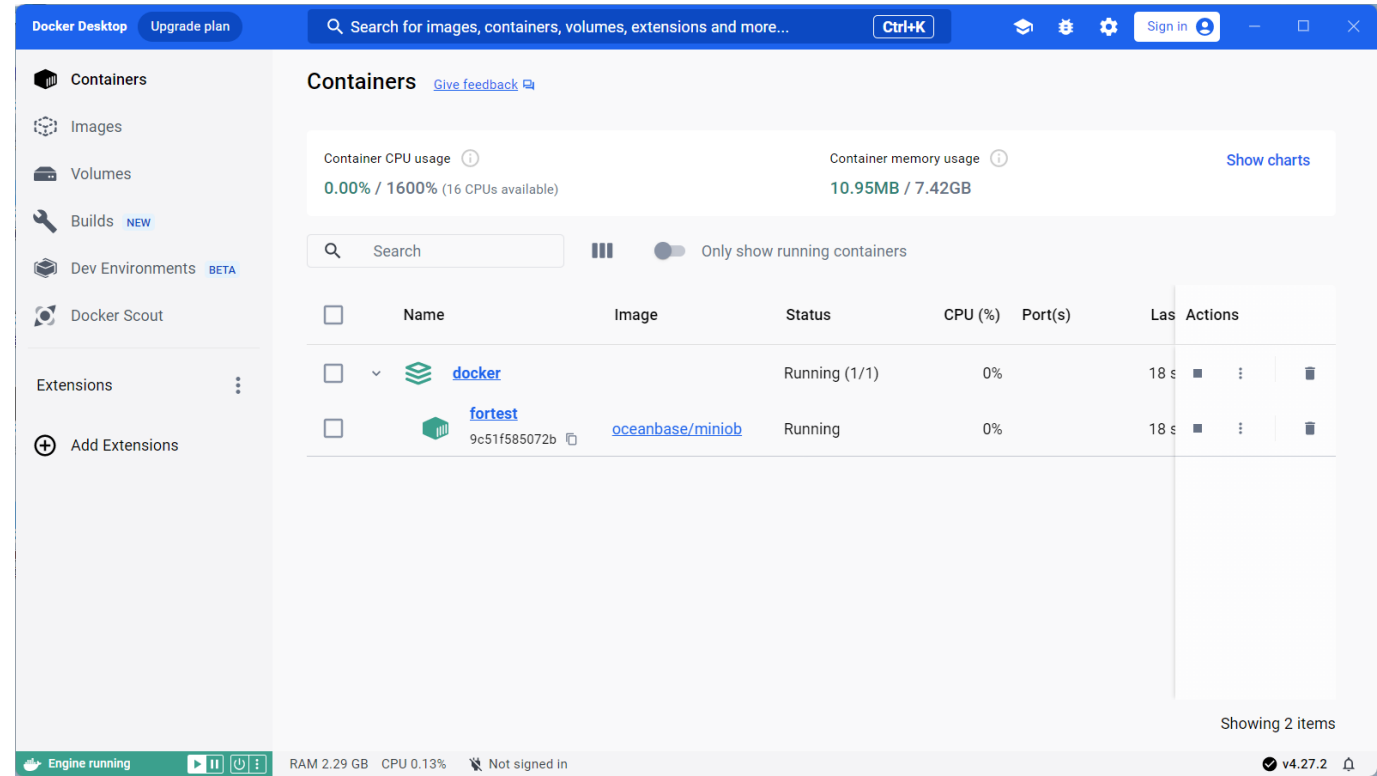
```
git clone https://github.com/oceanbase/miniob.git
```

```
$ git clone https://github.com/oceanbase/miniob.git|
Cloning into 'miniob'...
remote: Enumerating objects: 5005, done.
remote: Counting objects: 100% (47/47), done.
remote: Compressing objects: 100% (41/41), done.
remote: Total 5005 (delta 12), reused 21 (delta 3), pack-reused 4958
Receiving objects: 100% (5005/5005), 27.38 MiB | 2.52 MiB/s, done.
Resolving deltas: 100% (3118/3118), done.
```

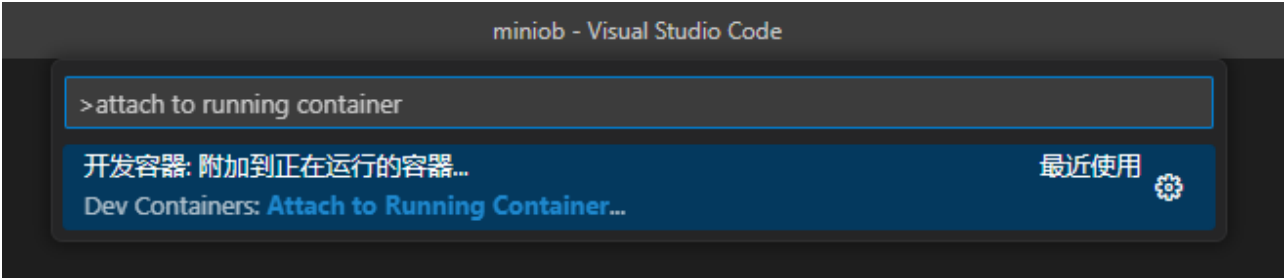
2. 启动docker，在下载代码的路径运行powershell，输入以下命令

```
docker run -d --name fortest --privileged -v $PWD/miniob:/root/miniob
oceanbase/miniob
```

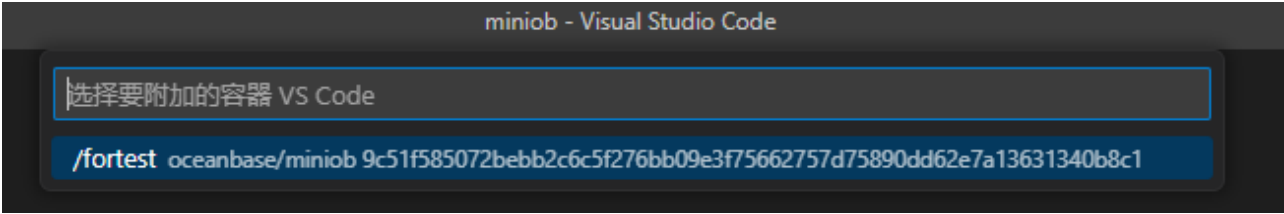
成功后docker里面会出现一个叫做fortest的容器，如下图：



- 3. 使用vscode打开本地的miniob文件夹，并安装Dev Containers插件（安装插件的方式可参考[vscode插件安装](#)）
- 4. 安装完成后，在vscode界面输入ctrl+shift+p，调出命令窗口，输入attach to running containers，点击下方弹出的窗口



- 5. 选择我们刚刚创建的fortest容器，进入fortest容器，此时会弹出新的vscode窗口。第一次启动会比较慢，启动完成后选择miniob文件夹进入



- 6. 在容器内的vscode的终端输入bash build.sh进行编译，若出现下图的错误，则执行sed -i 's/\r//g' build.sh后再编译

```
root@9c51f585072b ~/miniob <main>
⊗ # bash build.sh
build.sh: line 2: $'\r': command not found
build.sh: line 5: $'\r': command not found
build.sh: line 7: $'\r': command not found
build.sh: line 9: $'\r': command not found
build.sh: line 14: $'\r': command not found
build.sh ()
build.sh: line 16: $'\r': command not found
build.sh: line 18: syntax error near unexpected token `${\r'
'uild.sh: line 18: `{
```

7. 编译完成后输入`cd build_debug`进入build_debug文件夹

8. 输入以下命令启动miniob: `./bin/observer -f ../etc/observer.ini -P cli`, 成功后的截图如下:

```
root@9c51f585072b ~/miniob/build_debug <main>
⊗ # ./bin/observer -f ../etc/observer.ini -P cli

Welcome to the OceanBase database implementation course.

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Learn more about OceanBase at https://github.com/oceanbase/oceanbase
Learn more about MiniOB at https://github.com/oceanbase/miniob

Successfully load ../etc/observer.ini
miniob > show tables;
Tables_in_SYS
```

9. 可以对miniob输入一些SQL语句进行测试, 比如show tables, insert into等语句