

Project3 OpenGauss & PostgreSQL Docker configuration

Docker Download and Init

windows

<https://docs.docker.com/desktop/setup/install/windows-install/>

MacOS

<https://docs.docker.com/desktop/setup/install/mac-install/>

Please follow the manual download and install the Docker Desktop application(Sometimes, proxy is needed).

Database in Docker Deploy

Pull the image

```
docker pull docker.1panel.live/enmotech/opengauss:3.1.1
docker pull docker.1panel.live/ubuntu/postgres:14-22.04_beta
```

Run the image

Run the OpenGauss

```
docker run --name project3-opengauss --privileged=true \
  -d -e GS_PASSWORD=<!!!your db password!!!> \
  -v <!!!persist directory!!!>:/var/lib/opengauss -u root \
  -p 15432:5432 \
  docker.1panel.live/enmotech/opengauss:3.1.1
```

GS_PASSWORD: opengauss docker instance password

openGauss password complexity requirements: the password must be at least 8 characters long and contain uppercase and lowercase English letters, numbers, and special characters. If you cannot access the container, please use `docker logs <container_id>` to make sure the password is work

Persist directory: store the opengauss database file in which directory in your computer

Please modify those options in the command and run it in your local terminal.

The url is localhost (if you deployed in another server, please the the server ip)

After executing, the opengauss runs on your computer and listens to port 15432.

You can use the Postgres compatible driver to connect it.

The username is : gaussdb, The password is configured by yourself.

数据源和驱动程序

名称: gauss 创建 DDL 映射

注释:

常规 选项 SSH/SSL 架构 高级

连接类型: default 驱动程序: PostgreSQL 更多选项

主机: localhost 端口: 15432

身份验证: 用户与密码

用户: gaussdb

密码: <已隐藏> 保存: 永久

数据库: postgres

URL: jdbc:postgresql://localhost:15432/postgres 重写上面的设置

测试连接 PostgreSQL 9.2.4

取消 应用(A) 确定

Run the Postgresql

```
docker run -d \  
  --name project3-postgres \  
  -e POSTGRES_USER=postgres \  
  -e POSTGRES_PASSWORD=<!!!your db password!!!> \  
  -e POSTGRES_DB=postgres \  
  -e PGDATA=/var/lib/postgresql/data/pgdata \  
  -p 5432:5432 \  
  -v <!!!persist directory!!!>:/var/lib/postgresql/data \  
  docker.1panel.live/ubuntu/postgres:14-22.04_beta
```

POSTGRES_PASSWORD: Postgresql docker instance password

| need no complex password

PGDATA: store the PostgreSQL database file in which directory in your computer

After executing, the Postgres runs on your computer and listens to port 15432.

You can use the Postgres driver to connect it.

The username is : postgres, The password is configured by yourself.

数据源 驱动程序 DDL 映射

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项目数据源

🐧 gauss

🐧 postgres@localhost

问题

数据源和驱动程序

名称: postgres@localhost

○

[创建 DDL 映射](#)

注释:

↗️

常规

选项

SSH/SSL

架构

高级

连接类型: default 驱动程序: PostgreSQL [更多选项](#)

▼

主机: localhost 端口: 5432

身份验证: 用户与密码

▼

用户: postgres

密码: <已隐藏> 保存: 永久

▼

数据库: postgres

URL: jdbc:postgresql://localhost:5432/postgres

↗️

重写上面的设置

测试连接 PostgreSQL 14.12

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取消

应用(A)

确定

