

Doris数据库使用指南

1 商品说明

Apache Doris 是一款基于 MPP 架构的高性能、实时分析型数据库。它以高效、简单和统一的特性著称，能够在亚秒级的时间内返回海量数据的查询结果。Doris 既能支持高并发的点查询场景，也能支持高吞吐的复杂分析场景。

本商品通过鲲鹏服务器+Euler2.0 部署。

2 商品购买

您可以在云商店搜索“Doris数据库”。

其中，地域、规格、推荐配置使用默认，购买方式根据您的需求选择按需/按月/按年，短期使用推荐按需，长期使用推荐按月/按年，确认配置后点击“立即购买”。

2.1 商品支持自定义 ECS 购买，具体见章节 3.1.1

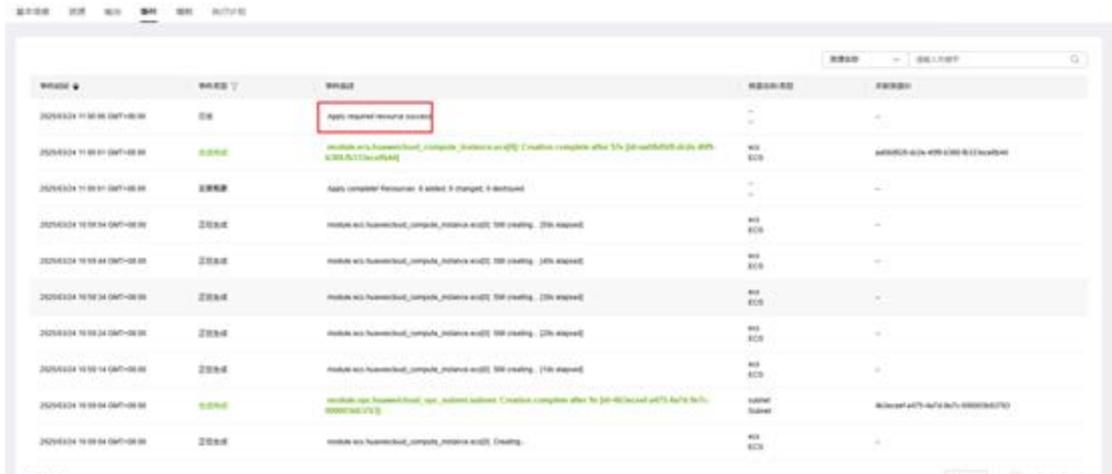
2.2 使用 RFS 模板直接部署



必填项填写后，点击 下一步



如下图“Apply required resource success.”即为资源创建完成



3 商品资源配置

商品支持ECS控制台配置，下面对资源配置的方式进行介绍。

3.1 ECS 控制台配置

3.1.1 准备工作

在使用ECS控制台配置前，需要您提前配置好安全组规则。

安全组规则的配置如下：

- 入方向规则放通端口8030，源地址内必须包含您的客户端ip，否则无法访问
- 入方向规则放通端口8040，源地址内必须包含您的客户端ip，否则无法访问
- 入方向规则放通CloudShell连接实例使用的端口22，以便在控制台登录调试。
- 出方向规则一键放通

3.1.2 创建 ECS

前提工作准备好后，选择ECS控制台配置跳转到购买ECS页面，ECS资源的配置如下图所示

示:

The screenshot displays the 'Purchase Elastic Cloud Server' (购买弹性云服务器) interface in the Huawei Cloud console. The process is divided into four steps: 1. Basic Configuration (基础配置), 2. Network Configuration (网络配置), 3. Advanced Configuration (高级配置), and 4. Confirmation (确认配置).

Step 1: Basic Configuration

- Region: 华北-北京四 (North China-4)
- Instance Type: 通用计算型 (General Purpose)
- Instance Family: s6
- Instance Model: s6.large.4
- Price: 配置费用 ¥0.3988/小时 + 弹性公网IP流量费用 ¥0.80/GB

Step 2: Network Configuration

- Subnet: vpc_kettle_bgp_192.168.10.0/24
- Security Group: secgroup_kettle_app_4b614874-5389-42c7-a375-64451cc1
- Public IP: 弹性公网IP (EIP)

Step 3: Advanced Configuration

- Public IP: 弹性公网IP (EIP)
- Line: 全连接BGP
- Bandwidth: 5, 10, 20, 50, 100 Mbit/s

Step 4: Confirmation

- Instance Name: ec2-kettle
- Description: (Optional)
- Cloud Backup: 不在购买 (Not Purchased)
- Cloud Monitoring: 不在配置 (Not Configured)
- OS: Ubuntu 22.04 LTS
- Initial Command: #!/bin/bash; echo 'root:xcc1@password'; bash; #!/bin/bash

值得注意的是:

- VPC您可以自行创建

- 安全组选择3.1.1章节中配置的安全组
- 弹性公网IP选择现在购买，推荐选择“按流量计费”，带宽大小可设置为5Mbit/s
- 其余默认或按规则填写即可。

4 商品使用

4.1 Doris 使用

1.查看服务是否启动

登录上服务器，通过【jps】查看服务是否启动，正常启动会显示 DorisBE 和 DorisFE信息

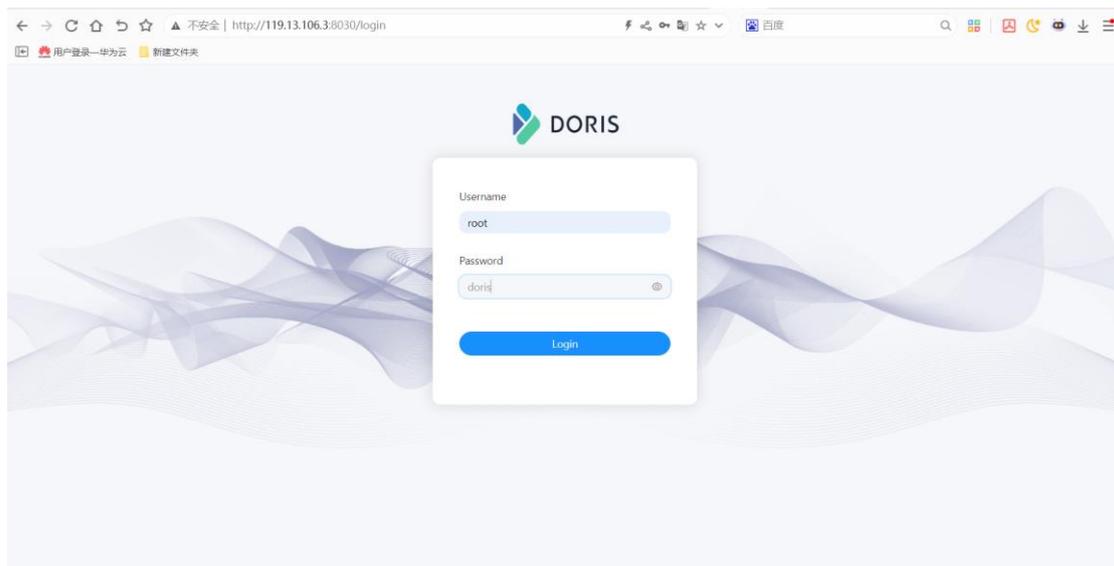
```
last login: Thu Jun 15 10:07:19 2023 from 117.110.231.20  
[root@doris ~]# jps  
3429 DorisBE  
2407 DorisFE  
6185 Jps
```

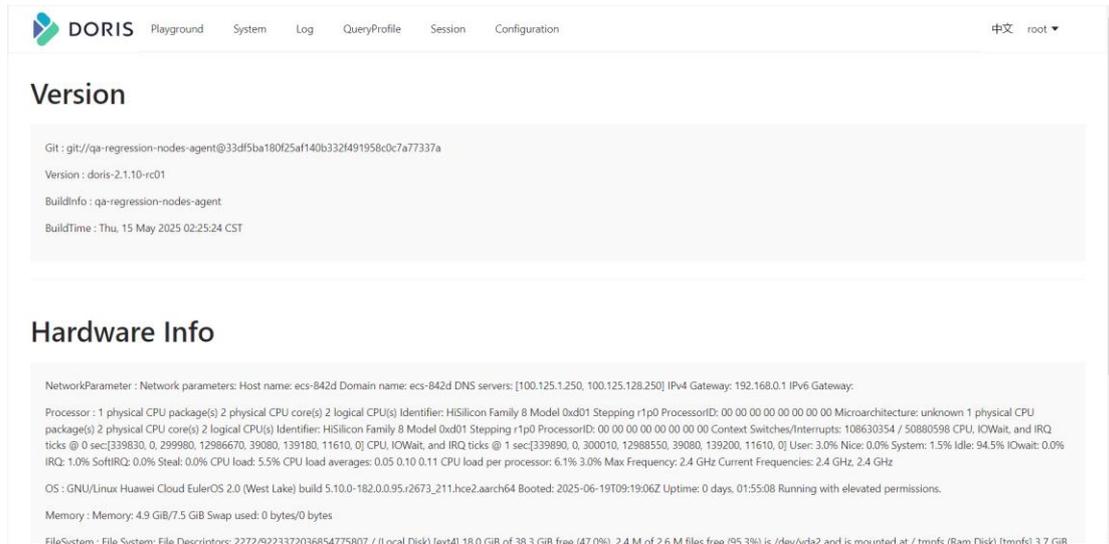
如果服务没有启动，可以手动启动，启动命令

【/opt/doris-2.1.10/fe/bin/start_fe.sh --daemon】

【/opt/doris-2.1.10/be/bin/start_be.sh --daemon】

2.IP+8030访问UI 用户名root,密码doris





The screenshot shows the DORIS Playground interface. At the top, there are navigation tabs: Playground, System, Log, QueryProfile, Session, and Configuration. The user is logged in as 'root' in '中文' language. The main content is divided into two sections: 'Version' and 'Hardware Info'. The 'Version' section displays the following information: Git commit: git://qa-regression-nodes-agent@33df5ba180f25af140b332f491958c0c7a77337a; Version: doris-2.1.10-rc01; BuildInfo: qa-regression-nodes-agent; BuildTime: Thu, 15 May 2025 02:25:24 CST. The 'Hardware Info' section provides detailed system parameters, including network settings, processor details (Hisilicon Family 8 Model 0xd01), OS information (GNU/Linux Huawei Cloud EulerOS 2.0), and memory usage (4.9 GiB/7.5 GiB).

3.建库建表

登录服务器，使用 root 账户连接 Apache Doris FE。

```
【mysql -uroot -P9030 -h127.0.0.1】
```

创建数据库和数据表

```
create database demo;
```

```
use demo;
```

```
create table mytable
```

```
(
```

```
    k1 TINYINT,
```

```
    k2 DECIMAL(10, 2) DEFAULT "10.05",
```

```
    k3 CHAR(10) COMMENT "string column",
```

```
    k4 INT NOT NULL DEFAULT "1" COMMENT "int column"
```

```
)
```

```
COMMENT "my first table"
```

```
DISTRIBUTED BY HASH(k1) BUCKETS 1
```

```
PROPERTIES ('replication_num' = '1');
```

```
[root@doris opt]# mysql -uroot -P9030 -h127.0.0.1
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 4
Server version: 5.7.99 Doris version doris-2.1.10-rc01-33df5ba180

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owners.

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

```
mysql> create database demo;
Query OK, 0 rows affected (0.01 sec)

mysql> use demo;
Database changed
mysql> create table mytable
-> (
->     k1 TINYINT,
->     k2 DECIMAL(10, 2) DEFAULT "10.05",
->     k3 CHAR(10) COMMENT "string column",
->     k4 INT NOT NULL DEFAULT "1" COMMENT "int column"
-> )
-> COMMENT "my first table"
-> DISTRIBUTED BY HASH(k1) BUCKETS 1
-> PROPERTIES ('replication_num' = '1');
Query OK, 0 rows affected (0.04 sec)
```

将以下示例数据，保存在本地的 data.csv:

```
1,0.14,a1,20
2,1.04,b2,21
3,3.14,c3,22
4,4.35,d4,23
```

A	B	C	D	E
1	0.14	a1	20	
2	1.04	b2	21	
3	3.14	c3	22	
4	4.35	d4	23	

通过 Stream Load 方式将上面保存到文件中的数据导入到刚才创建的表里。

```
curl --location-trusted -u root:doris -T data.csv -H "column_separator:,"
```

http://127.0.0.1:8030/api/demo/mytable/_stream_load

-T data.csv : 要导入的数据文件名

-u root:doris: root 账户与密码

127.0.0.1:8030 : 分别是 FE 的 IP 和 http_port

执行成功之后我们可以看到下面的返回信息:

```
[root@doris opt]# curl --location-trusted -u root:doris -T data.csv -H "column_separator:," http://127.0.0.1:8030/api/demo/mytable/_stream_load
{
  "TxnId": 2,
  "Label": "7efc0055-2b30-4693-9e95-8da31dfaa715",
  "Comment": "",
  "TwoPhaseCommit": "false",
  "Status": "Success",
  "Message": "OK",
  "NumberTotalRows": 4,
  "NumberLoadedRows": 4,
  "NumberFilteredRows": 0,
  "NumberUnselectedRows": 0,
  "LoadBytes": 56,
  "LoadTimeMs": 444,
  "BeginTxnTimeMs": 22,
  "StreamLoadPutTimeMs": 212,
  "ReadDataTimeMs": 0,
  "WriteDataTimeMs": 144,
  "ReceiveDataTimeMs": 237,
  "CommitAndPublishTimeMs": 63
}
```

查询数据

在 MySQL 客户端中, 执行如下 SQL, 可以查询到刚才导入的数据:

```
mysql -uroot -P9030 -h127.0.0.1
```

```
use demo;
```

```
select * from mytable;
```

```
[root@doris opt]# mysql -uroot -P9030 -h127.0.0.1
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 5
Server version: 5.7.99 Doris version doris-2.1.10-rc01-33df5ba180

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owners.

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

mysql> select * from mytable;
ERROR 1046 (3D000): errCode = 2, detailMessage = No database selected
mysql> use demo;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> select * from mytable;
+-----+-----+-----+-----+
| k1   | k2   | k3   | k4   |
+-----+-----+-----+-----+
| 1   | 0.14 | a1   | 20   |
| 2   | 1.04 | b2   | 21   |
| 3   | 3.14 | c3   | 22   |
| 4   | 4.35 | d4   | 23   |
+-----+-----+-----+-----+
4 rows in set (0.04 sec)
```

4.2 参考文档

- [Doris参考文档](#)