



BendDeploy 管控 Databend 的全新体验!

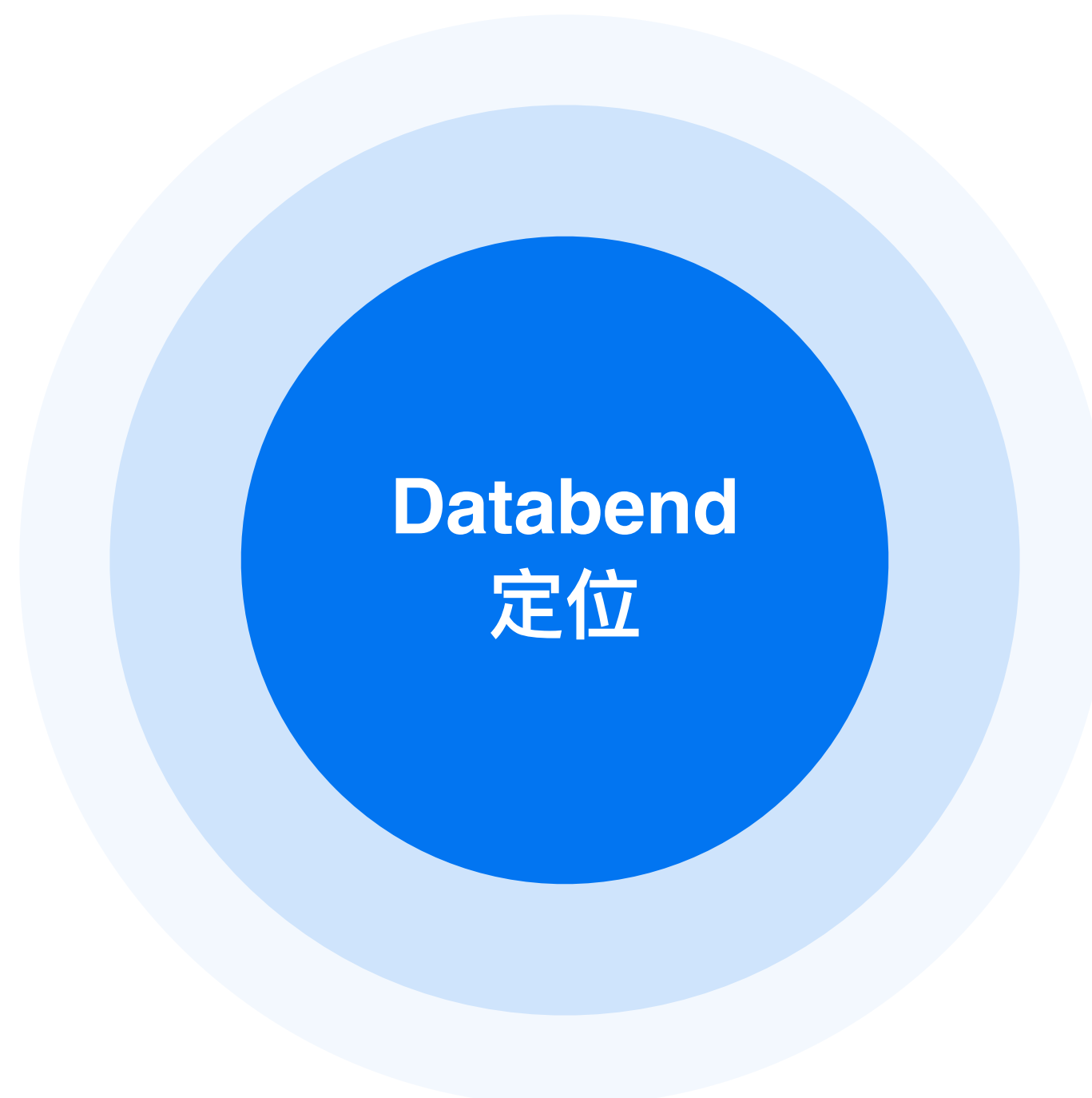
韩山杰 @ Databend Labs

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Databend 介绍

- 降低云上大数据的成本，提供一款云原生湖仓一体化产品：低成本
- 简化湖仓架构，让湖仓在开发中变成和基于数据库开发一样：SQL 为王
- 利用存算分离实现一份数据，多种工作负载，让用户有更多的性能方面的突破



- 统一数据中心，让公司和集团，可以构建一个统一的湖仓：中心化
- 原生高可用，利用对象存储的高可用帮助用户实现跨 IDC 的高可用方案
- No-Lock 方案，让用户可以轻松上来，轻松下去，多云体验一致

我们的口号:

- 在云上替代传统的 Hadoop 和 OLAP，让云上的数据分析像用水，用电一样方便。

Databend 落地的场景

OLAP 实时分析



海量日志存储及计算



数据库数据归档分析



离线计算



某医药集团

尼泊尔电信



国内某汽车

Databend 降本增效

75% ▼

替换 Trino/Presto 场景成本降低了

90% ▼

替换 Elasticsearch 场景成本降低了

95% ▼

归档场景成本降低了

75% ▼

日志和历史订单分析场景成本降低了

~ 1 PB + /天（2023.9 统计）在使用 Databend 写入公有云对象存储

开源、开放，运维简单、分钟级部署，为云端海量数据分析而设计

用户来自欧洲、北美、东南亚、印度、非洲、中国等地，每月节省百万 \$

```
***** 1. row *****
```

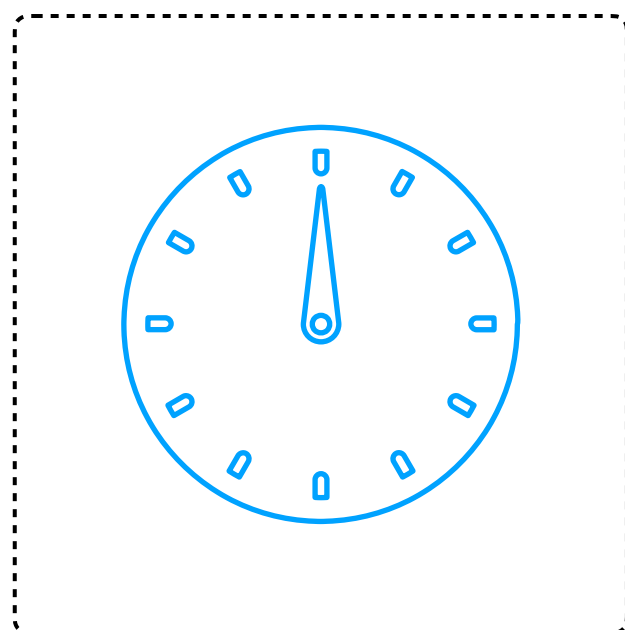
```
previous_snapshot_id: ac98cce9cf124ee6aabdb274b139f450
segment_count: 144489
block_count: 62109753
row_count: 2632832679825
bytes_uncompressed: 7178826014919332
bytes_compressed: 1451757431848473
index_size: 3687230413699
timestamp: 2023-05-18 08:33:14.345988
```

- 交易对帐表, 单表:
- 行数: **2.6万亿+**
- 压缩后: **1PB +**

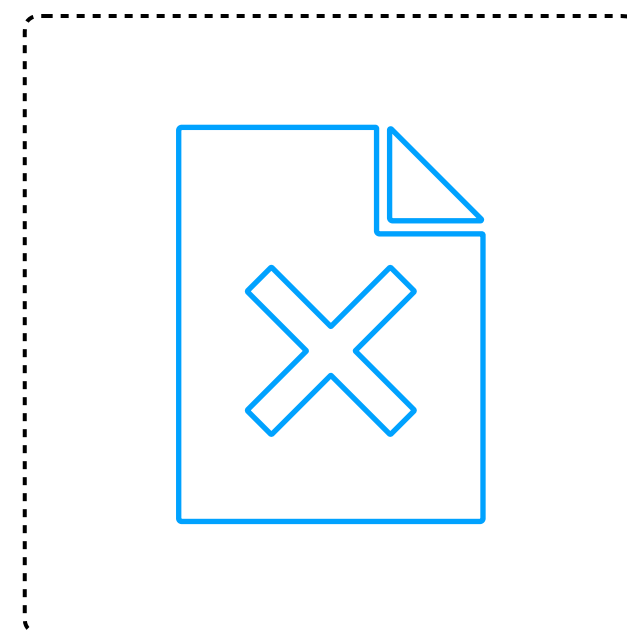
Part 1

BendDeploy 是什么?

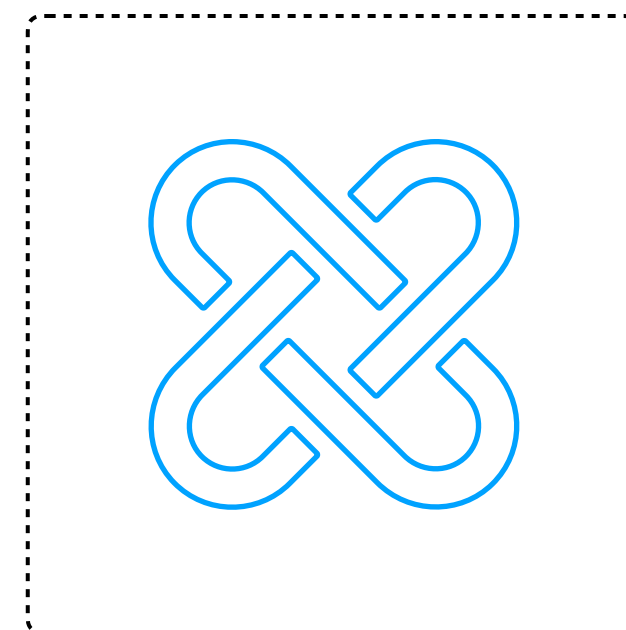
Before BendDeploy



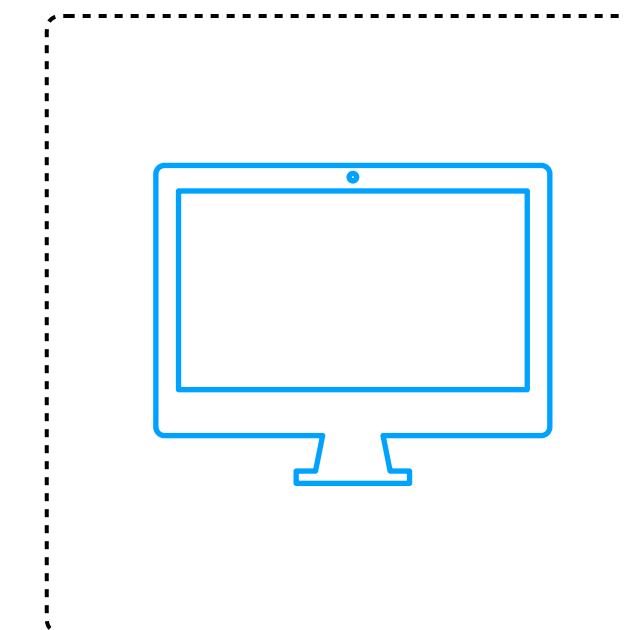
部署升级流程慢



日志收集配置复杂



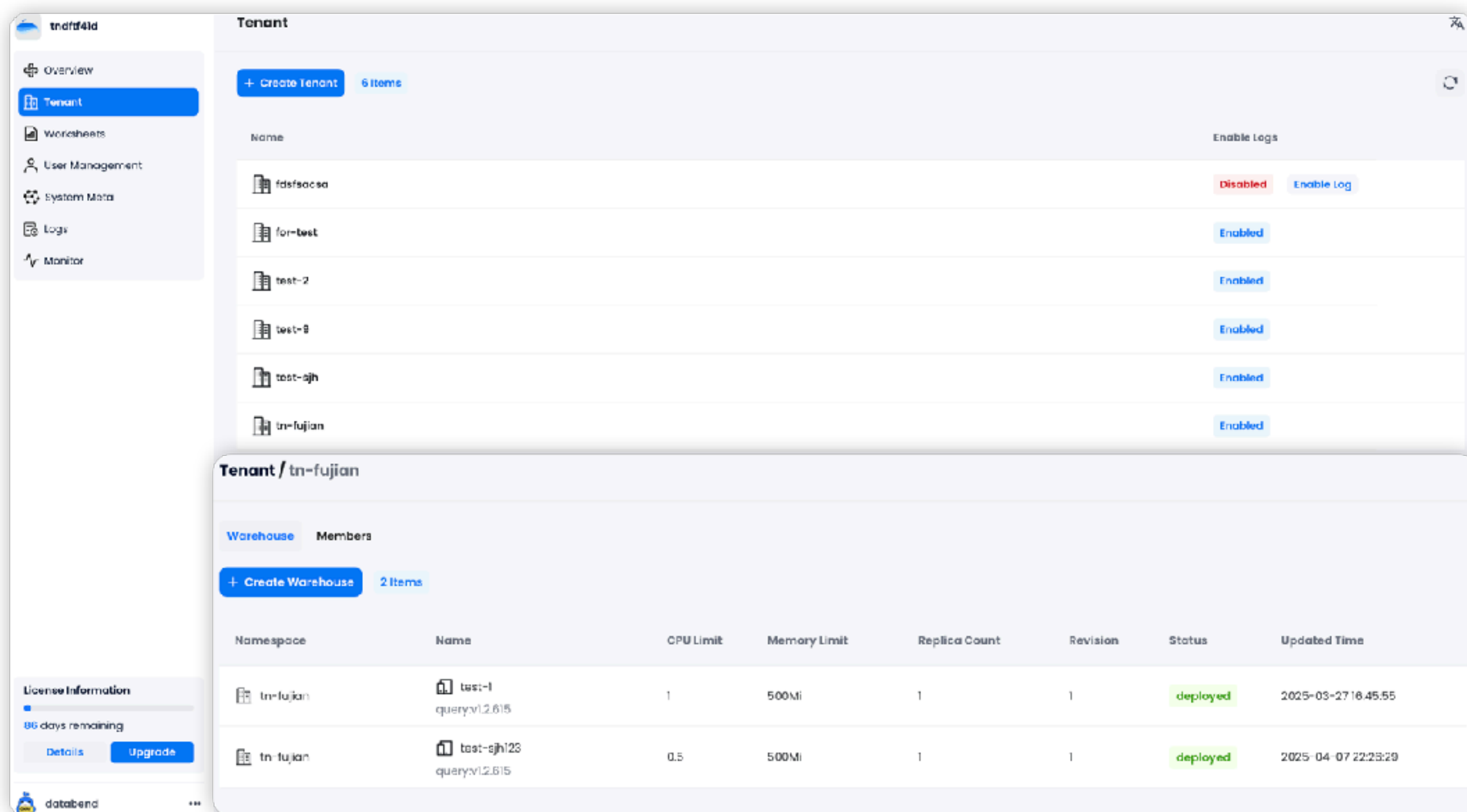
无法弹性扩缩容



无法对用户权限管理

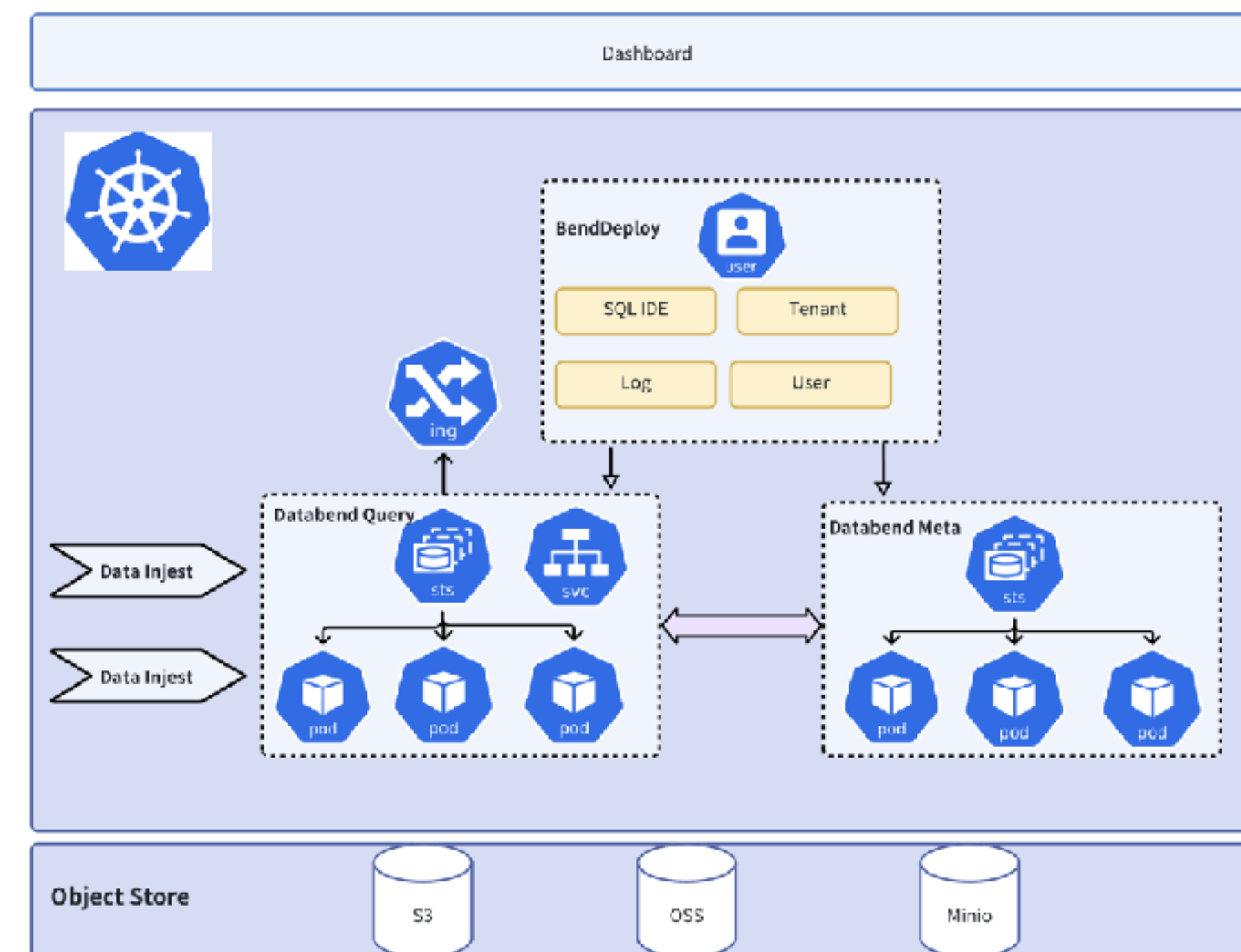
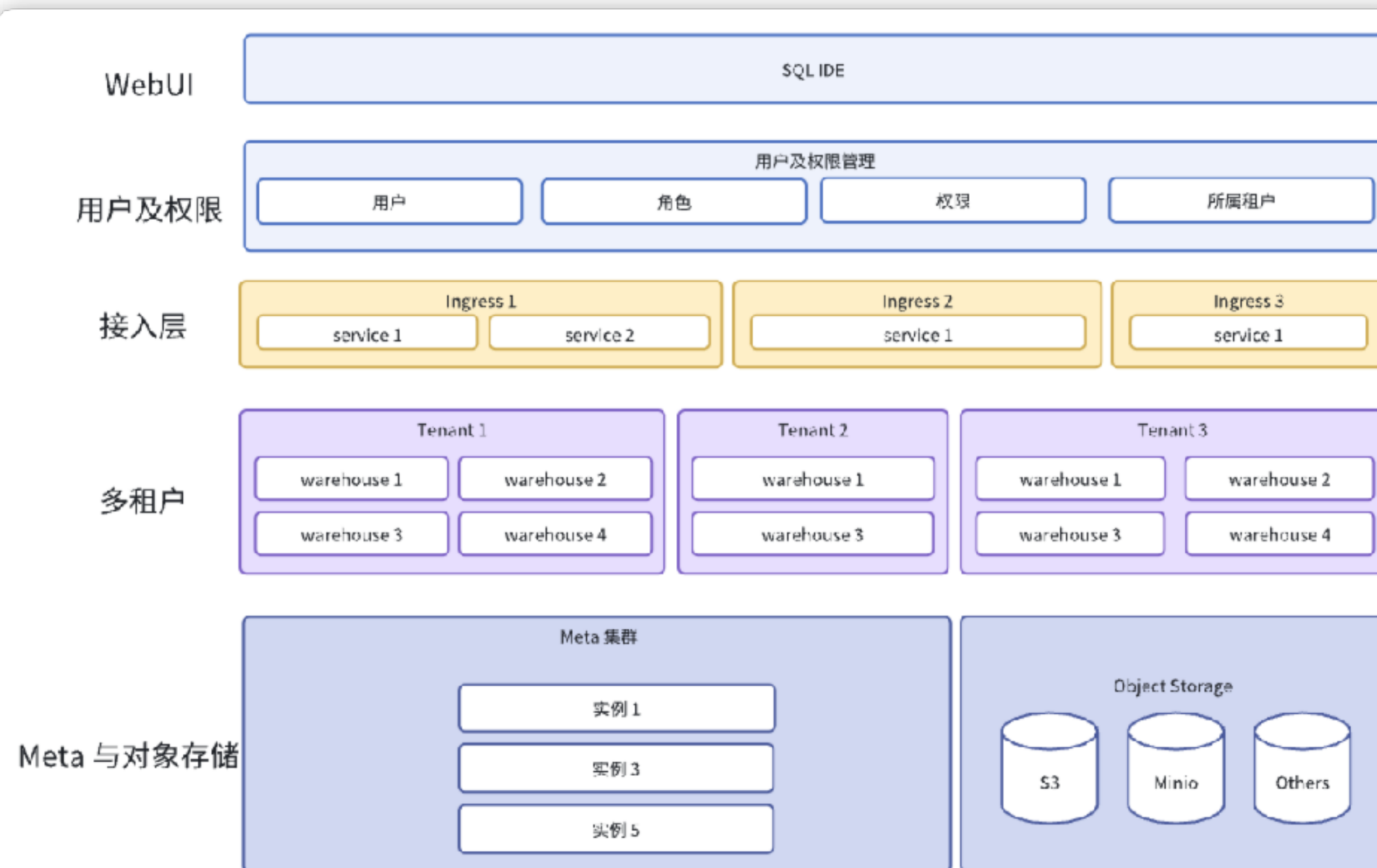
什么是 BendDeploy

BendDeploy 是 Databend 提供的一套基于 Kubernetes 的标准化私有部署管控平台。



- 一站式 Databend 数据库集群管理工具，快速、安全地实现 Databend 多集群、多租户的部署与管理
- 借助直观的操作界面，提供简单易用的可视化运维体验
- 提升运维效率，减少错误和中断，提高服务质量和稳定性

架构设计

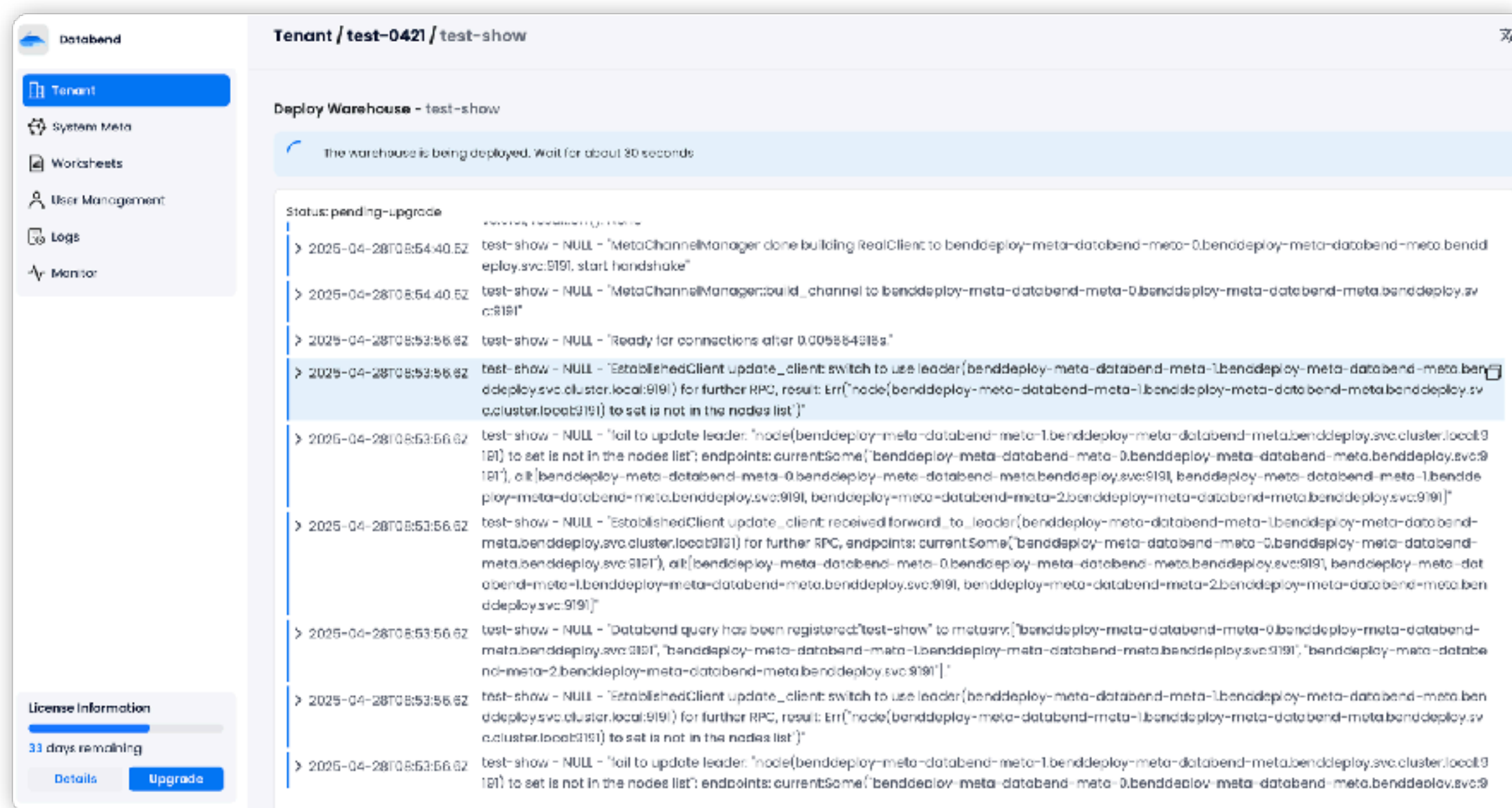


多租户

多计算集群

可外接 meta 集群

多租户及 warehouse 管理



The screenshot shows the Databend Tenant Management interface. The left sidebar contains navigation links: Tenant, System Meta, Worksheets, User Management, Logs, and Monitor. The main content area is titled 'Tenant / test-0421 / test-show' and displays the 'Deploy Warehouse - test-show' status. A message indicates 'The warehouse is being deployed. Wait for about 30 seconds'. Below this, a log shows the status 'pending-upgrade' and a series of log entries with timestamps and messages. At the bottom left, there is a 'License Information' section showing '33 days remaining' and buttons for 'Details' and 'Upgrade'.

Tenant / test-0421 / test-show

Deploy Warehouse - test-show

The warehouse is being deployed. Wait for about 30 seconds

Status: pending-upgrade

test-show - NULL - "MetaChannelManager done building RealClient to benddeploy-meta-databend-meta-0.benddeploy-meta-databend-meta.benddeploy.svc:9191, start handshake"

test-show - NULL - "MetaChannelManager build_channel to benddeploy-meta-databend-meta-0.benddeploy-meta-databend-meta.benddeploy.svc:9191"

test-show - NULL - "Ready for connections after 0.005884318s"

test-show - NULL - "EstablishedClient update_client: switch to use leader(benddeploy-meta-databend-meta-1.benddeploy-meta-databend-meta.benddeploy.svc:9191) for further RPC, result: Err("node(benddeploy-meta-databend-meta-1.benddeploy-meta-databend-meta.benddeploy.svc:9191) to set is not in the nodes list")"

test-show - NULL - "fail to update leader: "node(benddeploy-meta-databend-meta-1.benddeploy-meta-databend-meta.benddeploy.svc:9191) to set is not in the nodes list"; endpoints: currentSome("benddeploy-meta-databend-meta-0.benddeploy-meta-databend-meta.benddeploy.svc:9191"), all(benddeploy-meta-databend-meta-0.benddeploy-meta-databend-meta.benddeploy.svc:9191, benddeploy-meta-databend-meta-1.benddeploy-meta-databend-meta.benddeploy.svc:9191, benddeploy-meta-databend-meta-2.benddeploy-meta-databend-meta.benddeploy.svc:9191)"

test-show - NULL - "EstablishedClient update_client: received forward_to_leader(benddeploy-meta-databend-meta-1.benddeploy-meta-databend-meta.benddeploy.svc:9191) for further RPC, endpoints: currentSome("benddeploy-meta-databend-meta-0.benddeploy-meta-databend-meta.benddeploy.svc:9191"), all(benddeploy-meta-databend-meta-0.benddeploy-meta-databend-meta.benddeploy.svc:9191, benddeploy-meta-databend-meta-1.benddeploy-meta-databend-meta.benddeploy.svc:9191, benddeploy-meta-databend-meta-2.benddeploy-meta-databend-meta.benddeploy.svc:9191)"

test-show - NULL - "Databend query has been registered: test-show" to metasrv: ["benddeploy-meta-databend-meta-0.benddeploy-meta-databend-meta.benddeploy.svc:9191", benddeploy-meta-databend-meta-1.benddeploy-meta-databend-meta.benddeploy.svc:9191, benddeploy-meta-databend-meta-2.benddeploy-meta-databend-meta.benddeploy.svc:9191]"

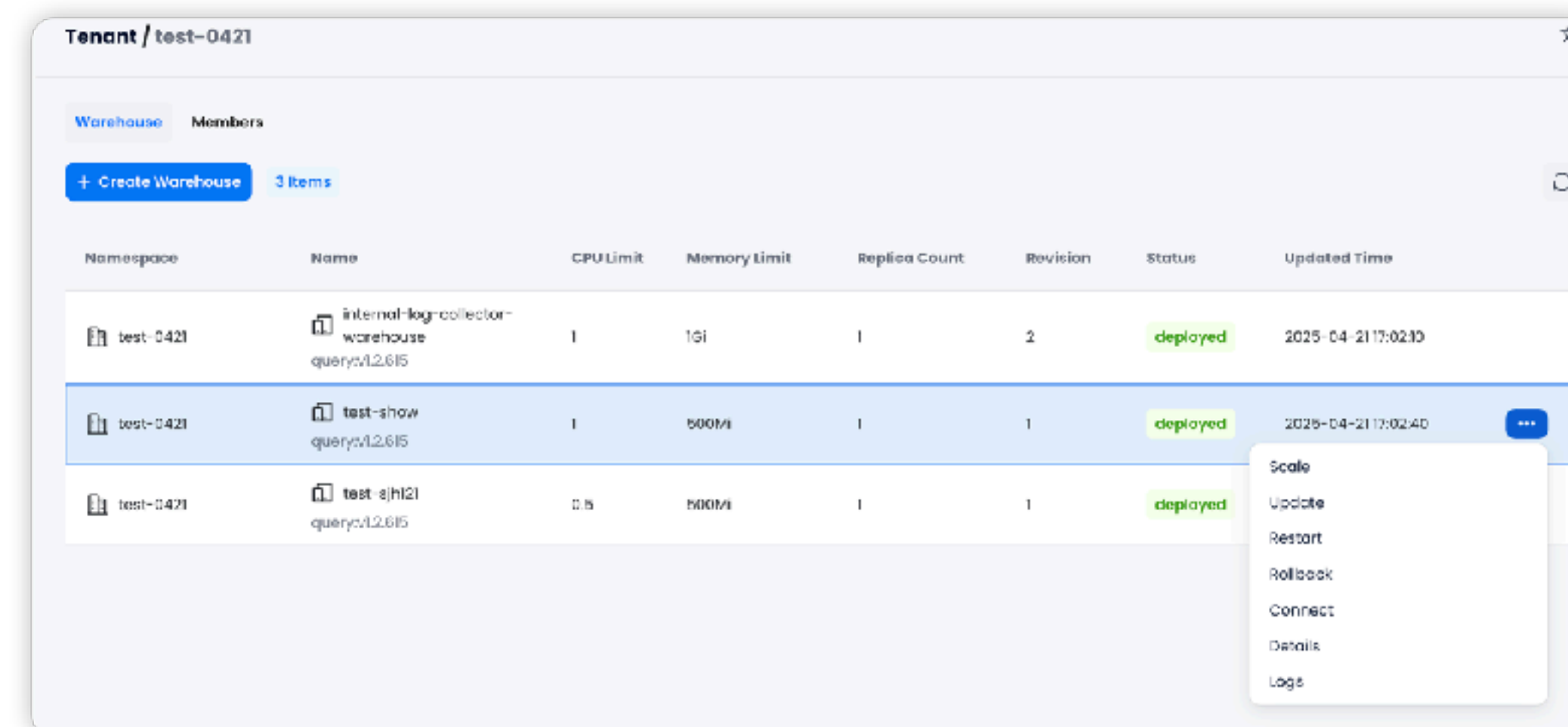
test-show - NULL - "EstablishedClient update_client: switch to use leader(benddeploy-meta-databend-meta-1.benddeploy-meta-databend-meta.benddeploy.svc:9191) for further RPC, result: Err("node(benddeploy-meta-databend-meta-1.benddeploy-meta-databend-meta.benddeploy.svc:9191) to set is not in the nodes list")"

test-show - NULL - "fail to update leader: "node(benddeploy-meta-databend-meta-1.benddeploy-meta-databend-meta.benddeploy.svc:9191) to set is not in the nodes list"; endpoints: currentSome("benddeploy-meta-databend-meta-0.benddeploy-meta-databend-meta.benddeploy.svc:9191"), all(benddeploy-meta-databend-meta-0.benddeploy-meta-databend-meta.benddeploy.svc:9191, benddeploy-meta-databend-meta-1.benddeploy-meta-databend-meta.benddeploy.svc:9191, benddeploy-meta-databend-meta-2.benddeploy-meta-databend-meta.benddeploy.svc:9191)"

License Information

33 days remaining

Details Upgrade



The screenshot shows the Databend Warehouse Management interface. The top bar indicates 'Tenant / test-0421'. Below the bar, there are tabs for 'Warehouse' and 'Members'. A '+ Create Warehouse' button and '3 Items' are shown. The main table lists the warehouses with columns: Namespace, Name, CPU Limit, Memory Limit, Replica Count, Revision, Status, and Updated Time. A context menu is open for the 'test-show' warehouse, showing options: Scale, Update, Restart, Rollback, Connect, Details, and Logs.

Tenant / test-0421

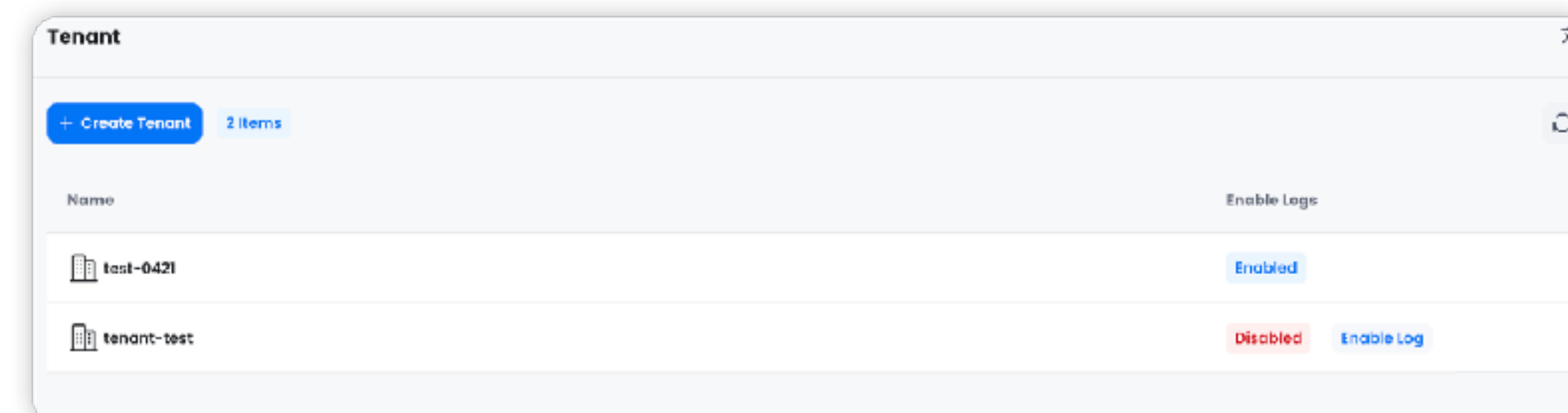
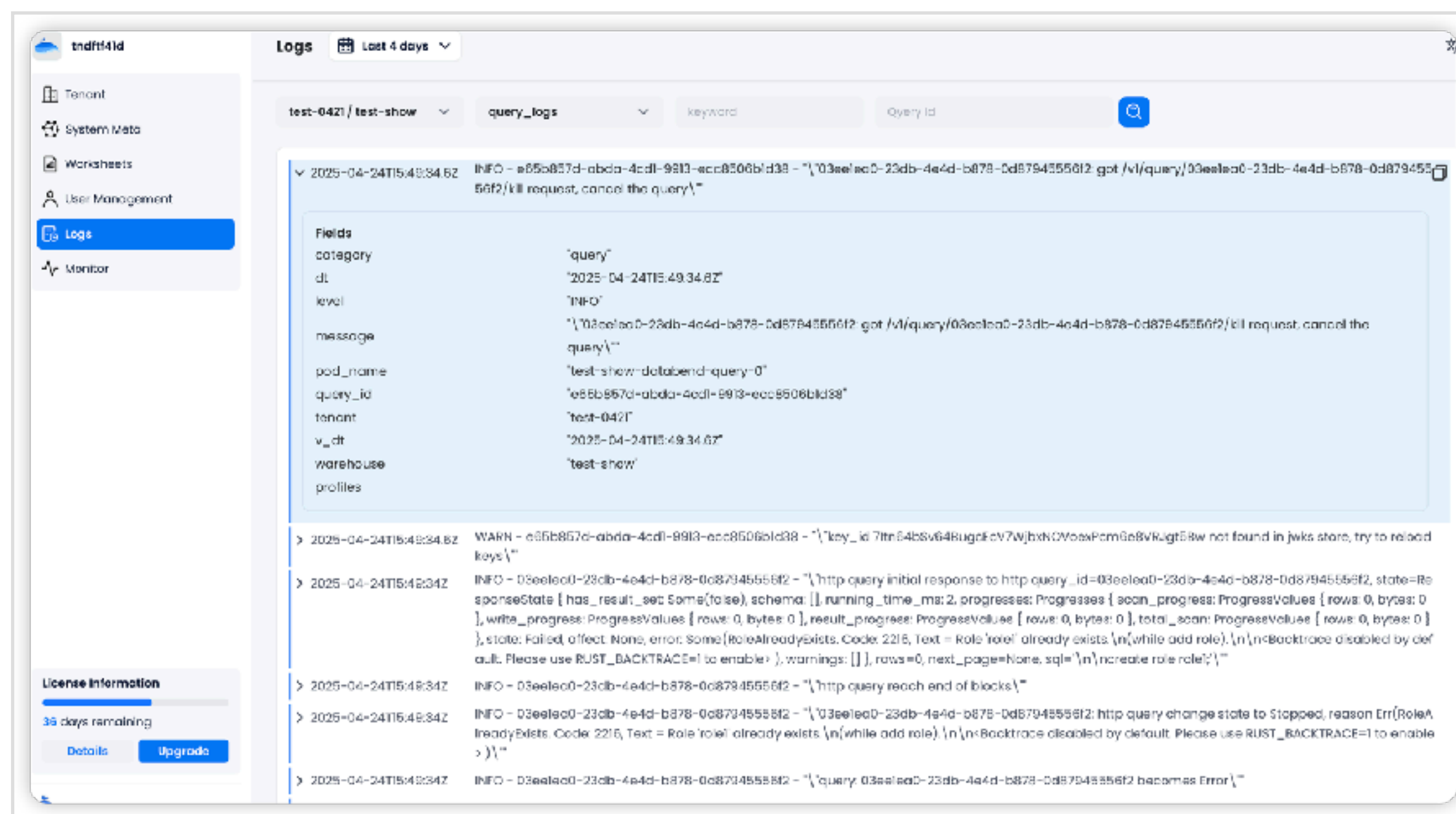
Warehouse Members

+ Create Warehouse 3 Items

Namespace	Name	CPU Limit	Memory Limit	Replica Count	Revision	Status	Updated Time
test-0421	internal-log-collector-warehouse	1	1Gi	1	2	deployed	2025-04-21 17:02:10
test-0421	test-show	1	500Mi	1	1	deployed	2025-04-21 17:02:40
test-0421	test-eh121	0.5	500Mi	1	1	deployed	

Scale
Update
Restart
Rollback
Connect
Details
Logs

模块化日志组件



用户及权限管理

tndtf41d

Tenant

System Meta

Worksheets

User Management

Logs

Monitor

User Management

Create UserFilter3 Items

	User Name	Is Admin	Tenant Name	State	Created Time	Updated Time
+	databend12	NO	test-0421	activated	2025-04-21	2025-04-21
+	databend1	YES	tndtf41d	activated	2025-04-21	2025-04-21
+	databend23	NO	test-0421	activated	2025-04-24	2025-04-24

Create User

* User Name

databend1

* Password:

.....

* Tenant Name

test-0421

* Member Role

Select a role

account_admin

public

role1

Set as Administrator?

☐

Cancel

OK

SQL IDE

2025-02-19 05:58:49

2025-02-25 04:43:23

2025-03-07 03:26:45

2025-03-13 06:56:22

2025-03-19 01:45:23

Tutorial - Load data from...

2025-03-16 14:53:43

2025-03-17 06:29:40

My Worksheets | Updated 15 days ago [Share](#)

Databases

Worksheets

Search

+ ...

> Tutorials

> aaa

xxx

2025-03-24 14:24:35

2025-04-16 12:27:39

2025-04-07 06:24:40

2025-03-17 06:29:40

2025-03-16 14:53:43

2025-03-19 01:45:23

Tutorial - Load data from...

2025-03-07 03:26:45

2025-03-13 06:56:22

2025-03-19 01:44:59

2025-03-19 01:26:50

2025-02-25 04:43:23

2025-02-19 05:58:49

2025-03-06 06:18:43

book_db

account_admin

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

```
WITH regional_stats AS (  
  SELECT  
    radio,  
    mcc,  
    net,  
    area,  
    AVG(lon) AS avg_lon,  
    AVG(lat) AS avg_lat,  
    SUM(samples) AS total_samples,  
    COUNT(DISTINCT cell) AS unique_cells,  
    MAX(updated) - MIN(created) AS lifespan_seconds  
  FROM  
    cell_towers_3634  
  WHERE  
    lat BETWEEN -60 AND 70  
    AND lon BETWEEN -180 AND 180  
    AND samples > 5  
  GROUP BY  
    radio, mcc, net, area  
  HAVING  
    COUNT(*) > 10  
)  
time_analysis AS (  
  SELECT  
    FLOOR(created / (86400 * 30)) AS month_bucket,  
    radio.
```

Run Script

test-sjh · Small

Search

Platform License

License Information

×

88 days remaining

Product Name:

bend-deploy

Customer ID:

company-abc

Issued Time:

2025-05-05

Expires Time:

2025-08-03

Contact Databend:

hi@databend.com

Close

Upgrade License

×

How to get a license?

Contact Databend: hi@databend.com

* License

Cancel

OK

现在联系我们，可提供 **3 个月** 免费 License

Road Map

01 支持 Databend Cloud 中的 Task 调度能力

02 支持 Multi-Cluster

03 将内部引擎升级为 databend-operator, 提供更强的扩展性、弹性能力

BendDeploy docker image: <https://gallery.ecr.aws/databendlabs/benddeploy>

BendDeploy Helm charts: <https://github.com/databendcloud/benddeploy-charts>



扫码加入

Thank you!