



TDH-CE-DEV 2024-5 升级手册

星环信息科技（上海）股份有限公司

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手册版本信息

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1. 产品及版本介绍

1.1. 产品介绍

为了进一步降低广大用户接触使用大数据技术的门槛与成本，基于TDH商业版强大的技术优势与架构，星环科技推出了社区版家族产品。

包含社区版、社区开发版以及社区订阅版三大系列产品。其中，社区开发版具有开箱即用，单机即可一键启动等核心优势，受到了广大开发者的青睐。

家族产品	核心特点	支持的核心组件
 社区开发版	<ul style="list-style-type: none"> ✓ 单机即可部署 	<ul style="list-style-type: none"> Inceptor 关系型分析引擎 Hyperbase NoSQL 宽表数据库 StellarDB 图数据库 Scope 搜索引擎 Waterdrop 数据库开发工具 星环大数据运维管理套件及 Hadoop 精选组件 ..
	<ul style="list-style-type: none"> ✓ 开箱即用，一键启动 	
 社区版	<ul style="list-style-type: none"> ✓ 资源成本低 	<ul style="list-style-type: none"> Inceptor 关系型分析引擎
	<ul style="list-style-type: none"> ✓ 免费提供 4 节点 10TB 容量支持 	<ul style="list-style-type: none"> Hyperbase NoSQL 宽表数据库
	<ul style="list-style-type: none"> ✓ 分布式集群服务保障服务高可用 	<ul style="list-style-type: none"> Waterdrop 数据库开发工具
	<ul style="list-style-type: none"> ✓ 极致性能与可扩展性 	<ul style="list-style-type: none"> 星环大数据运维管理套件及 Hadoop 精选组件 ..
	<ul style="list-style-type: none"> ✓ 提供轻量级、业务无感知的在线维护 	
 社区订阅版	<ul style="list-style-type: none"> ✓ 无节点容量限制 	<ul style="list-style-type: none"> Inceptor 关系型分析引擎
	<ul style="list-style-type: none"> ✓ 企业级产品、功能及性能 	<ul style="list-style-type: none"> Hyperbase NoSQL 宽表数据库
	<ul style="list-style-type: none"> ✓ 业务规模增长支持 	<ul style="list-style-type: none"> StellarDB 图数据库
	<ul style="list-style-type: none"> ✓ 丰富的业务场景支持 	<ul style="list-style-type: none"> Scope 搜索引擎
	<ul style="list-style-type: none"> ✓ 专家级集群规划、诊断优化 	<ul style="list-style-type: none"> Waterdrop 数据库开发工具
	<ul style="list-style-type: none"> ✓ 高级别技术咨询，原厂售后支持 	<ul style="list-style-type: none"> Transporter 大数据整合工具
		<ul style="list-style-type: none"> Workflow 任务调度软件
	<ul style="list-style-type: none"> SQLBook (按需提供) 	

本手册旨在为您介绍如何将您当前环境上的23.5版本升级至最新版本。如有任何升级问题，请随时与社区版小助手联系。

新版本Manager使用手册：<https://transwarp-ce-1253207870.cos.ap-shanghai.myqcloud.com/TDH-CE-2024-5/MaintenanceManual.pdf>

- 官方小助手联系方式：



2. 升级步骤

2.1. 升级注意事项



正式开始升级前，请先停止当前环境的镜像（23-5版本）。



为了辅助大家的升级，社区版团队为您准备了配套视频供参考，希望能对您的升级有所帮助：<https://transwarp-ce-1253207870.cos.ap-shanghai.myqcloud.com/TDH-CE-2024-5/%E8%A7%86%E9%A2%91/V24-5%E5%BC%80%E5%8F%91%E7%89%88%E5%8D%87%E7%BA%A7%E6%95%99%E7%A8%8B.mp4>

2.2. 升级流程

2.2.1. 停止当前环境开发版镜像

```
docker ps
docker stop <containerid>
```

```
(base) [root@ce113 ~]# docker ps
CONTAINER ID   IMAGE                                     NAMES                                     COMMAND                                     CREATED        STATUS        PORTS
df939608c13f   tdh-standalone:2023.5                  loving_jepsen                             "/usr/bin/boot.sh"                       3 hours ago   Up 3 hours
88af27a5dc9e   172.16.1.99/postcommit/tdms-standalone:hippo-1.1.0-final   loving_jepsen                             "/usr/bin/standalone..."               2 weeks ago   Up 6 days   0.0.0.0:7789->
18822/tcp, :::7789->18822/tcp, 0.0.0.0:7788->18902/tcp, :::7788->18902/tcp
b348cbca3b13   172.16.1.99/transwarp/kg-explorer:kg-explorer-1.3.2-final   standalone-template-hippo-1              "/bin/bash /bin/boot..."              6 weeks ago   Up 7 days   0.0.0.0:38282->
>38282/tcp, :::38282->38282/tcp
6ba4565c2b89   172.16.1.99/postcommit/linac:8.39-2024-03-18-19-51-36-f722025506e257d87bc9b6d7b6b80a1bdb373041   stellardb-docker-compose-kg-explorer0    "/bin/bash /bin/boot..."              6 weeks ago   Up 7 days   2181/tcp, 2191
/tcp, 2888/tcp, 4040/tcp
c6eae60b2a42   172.16.1.99/postcommit/linac:8.39-2024-03-18-19-51-36-f722025506e257d87bc9b6d7b6b80a1bdb373041   stellardb-docker-compose-quark-executor0  "/bin/bash /bin/boot..."              6 weeks ago   Up 7 days   2181/tcp, 2191
/tcp, 2888/tcp, 4040/tcp, 0.0.0.0:10000->10000/tcp, :::10000->10000/tcp
9ad3a389bab3   172.16.1.99/transwarp/dbaservice:dba-9.4.5-final           stellardb-docker-compose-quark-server0    "/bin/bash /bin/boot..."              6 weeks ago   Up 7 days   0.0.0.0:4240->
4240/tcp, :::4240->4240/tcp
dee711ef4ec3   172.16.1.99/gold/stellardb:stellardb-5.0-2024-03-13-33-36-bfec538d5c524621c1a4553ef7bdef1e7733dc36   stellardb-docker-compose-stellardb-master0  "/bin/bash /bin/boot..."              6 weeks ago   Up 7 days
efc03472bb65   172.16.1.99/postcommit/linac:8.39-2024-03-18-19-51-36-f722025506e257d87bc9b6d7b6b80a1bdb373041   stellardb-docker-compose-quark-metastore0  "/bin/bash /bin/boot..."              6 weeks ago   Up 7 days   2181/tcp, 2191
/tcp, 2888/tcp, 4040/tcp
26a35612027e   172.16.1.99/gold/stellardb:stellardb-5.0-2024-03-13-33-36-bfec538d5c524621c1a4553ef7bdef1e7733dc36   stellardb-docker-compose-stellardb-worker0  "/bin/bash /bin/boot..."              6 weeks ago   Up 7 days
7e2929b77ef9   172.16.1.99/transwarp/zookeeper:transwarp-7.0.1-final     stellardb-docker-compose-zookeeper0       "/bin/bash /bin/boot..."              6 weeks ago   Up 7 days   2191/tcp, 0.0.
0.0:2181->2181/tcp, :::2181->2181/tcp, 2888/tcp
ba516c57bd55   172.16.1.99/transwarp/kundb-mini:kundb-2.1.6-final        stellardb-docker-compose-kundb0           "/bin/bash /data/ent..."              6 weeks ago   Up 7 days
```

```
(base) [root@ce113 ~]# docker stop df939608c13f
df939608c13f
```

2.2.2. 获取最新版本产品包及镜像

- 步骤一 将从官网下载下来的产品包上传至安装环境

产品包名称：TDH-Standalone-Community-Transwarp-2024.5-X86_64-final.tar.gz

- 步骤二 执行下述命令进行解压，解压后将出现一个镜像tar包

```
tar -zxvf TDH-Standalone-Community-Transwarp-2024.5-X86_64-final.tar.gz
```

- 步骤三 执行下述命令加载最新版本镜像

```
docker load -i tdh-2024.5.tar
```

- 步骤四 执行下方指令启动容器并运行镜像，运行格式为：

```
# docker run -d --network host -v <本地目录路径>:/opt/transwarp --privileged tdh-2024.5.tar
```



注意，此处的本地目录路径请使用您当前环境中的开发版（旧版本）数据目录。比如您历史版本23.5所在的数据目录为/home/23，您在拉取最新版本镜像后，启动命令中的本地目录路径继续使用/home/23。

```
[base] [root@ce113 standalone_24.5]# ls
TDH-Stellardb-Standalone-Community-Transwarp-2024.5-X86_64-final.tar.gz
[base] [root@ce113 standalone_24.5]# tar -zxvf TDH-Stellardb-Standalone-Community-Transwarp-2024.5-X86_64-final.tar.gz
[base] [root@ce113 standalone_24.5]# cd /opt/transwarp
[base] [root@ce113 standalone_24.5]# docker run -d --network host -v /home/23:/opt/transwarp --privileged tdh-standalone:2024.5
[base] [root@ce113 standalone_24.5]#
```

2.2.3. 修改相关参数及环境数据

- 步骤一 进入开发版pod，连接manager数据库transwarp_manager

```
docker ps
docker exec -it <containerid> bash
```

```
[base] [root@ce113 ~]# docker ps
CONTAINER ID   IMAGE                                NAMES                COMMAND                CREATED           STATUS
afb894468fc9   tdh-standalone:2024.5              nervous_jennings     "/usr/bin/boot.sh"     About a minute ago Up About a minute
88af27a5dc9e   172.16.1.99/postcommit/tdh-standalone:svhippo-1.1.0-final  stand-alone-template-hippo-1  "/usr/bin/standalone..."  2 weeks ago      Up 6 days
b348cbca3b13   172.16.1.99/transwarp/kg-explorer:kg-explorer-1.3.2-final  stellardb-docker-compose-kg-explorer0  "/bin/bash /bin/boot..."  6 weeks ago      Up 7 days
0.0.0.0:38282->38282/tcp, :::38282->38282/tcp
6ba4569c2b89   172.16.1.99/postcommit/linac:8.39-2024-03-18-19-51-36-f722025506e257d87bc9b6d7b6b80a1bdb373041  stellardb-docker-compose-quark-executor0  "/bin/bash /bin/boot..."  6 weeks ago      Up 7 days
2181/tcp, 2191/tcp, 2888/tcp, 4040/tcp
c6ea9602a42   172.16.1.99/postcommit/linac:8.39-2024-03-18-19-51-36-f722025506e257d87bc9b6d7b6b80a1bdb373041  stellardb-docker-compose-quark-server0  "/bin/bash /bin/boot..."  6 weeks ago      Up 7 days
2181/tcp, 2191/tcp, 2888/tcp, 4040/tcp, 0.0.0.0:10000->10000/tcp, :::10000->10000/tcp
9ad3a389bab3   172.16.1.99/transwarp/dbaservice:dba-9.4.5-final          stellardb-docker-compose-50-240318-dbaservice-1  "/bin/bash /bin/boot..."  6 weeks ago      Up 7 days
0.0.0.0:4240->4240/tcp, :::4240->4240/tcp
dee711ef4ec3   172.16.1.99/gold/stellardb:stellardb-5.0-2024-03-13-13-33-36-bfec538d5c524621cia4553ef7bdefie7733dc36  stellardb-docker-compose-stellardb-master0  "/bin/bash /bin/boot..."  6 weeks ago      Up 7 days
efc03472bb65   172.16.1.99/postcommit/linac:8.39-2024-03-18-19-51-36-f722025506e257d87bc9b6d7b6b80a1bdb373041  stellardb-docker-compose-quark-metastore0  "/bin/bash /bin/boot..."  6 weeks ago      Up 7 days
2181/tcp, 2191/tcp, 2888/tcp, 4040/tcp
20a35612027e   172.16.1.99/gold/stellardb:stellardb-5.0-2024-03-13-13-33-36-bfec538d5c524621cia4553ef7bdefie7733dc36  stellardb-docker-compose-stellardb-worker0  "/bin/bash /bin/boot..."  6 weeks ago      Up 7 days
7e2929b77ef9   172.16.1.99/transwarp/zookeeper:transwarp-7.0.1-final    stellardb-docker-compose-zookeeper0  "/bin/bash /bin/boot..."  6 weeks ago      Up 7 days
2191/tcp, 0.0.0.0:2181->2181/tcp, :::2181->2181/tcp, 2888/tcp
ba516c57bd55   172.16.1.99/transwarp/kundb-m:kundb-2.1.6-final          stellardb-docker-compose-kundb0  "/bin/bash /data/ent..."  6 weeks ago      Up 7 days
[base] [root@ce113 ~]# docker exec -it afb894468fc9 bash
```

- 步骤二 获取密码

```
/usr/lib/transwarp-manager/common/jdk/bin/java -cp "/etc/transwarp-manager/master:/usr/lib/transwarp-manager/master/lib/*:/usr/lib/transwarp-manager/common/lib/*" io.transwarp.manager.master.util.DbUtils
```

```
[root@ce113 /]# /usr/lib/transwarp-manager/common/jdk/bin/java -cp "/etc/transwarp-manager/master:/usr/lib/transwarp-manager/master/lib/*:/usr/lib/transwarp-manager/common/lib/*" io.transwarp.manager.master.util.DbUtils
uJeGL24EdF
```

- 步骤三 连接manager数据库transwarp_manager

```
mysql -S /var/run/mariadb/transwarp-manager-db.sock -D transwarp_manager -u transwarp --password=''
```

```
[root@ce113 /]# mysql -S /var/run/mariadb/transwarp-manager-db.sock -D transwarp_manager -u transwarp --password='uJeGL24EdF'
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 491
Server version: 10.3.28-MariaDB MariaDB Server

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [transwarp_manager]>
```

- 步骤四 更新相关数据

```

update service set version='transwarp-standalone-9.3.3-final' where type='LICENSE_SERVICE';
update service set version='tdh_aquila-standalone-9.3.4-final' where type='AQUILA';
update service set version='transwarp-standalone-9.3.3-final' where type='ZOOKEEPER';
update service set version='transwarp-standalone-9.3.3-final' where type='HDFS';
update service set version='transwarp-standalone-9.3.3-final' where type='YARN';
update service set version='hyperbase-standalone-9.3.3-final' where type='HYPERBASE';
update service set version='quark-standalone-8.37.4-final' where type='QUARK';
    
```

```

MariaDB [transwarp_manager]> update service set version='transwarp-standalone-9.3.3-final' where type='LICENSE_SERVICE';
Query OK, 1 row affected (0.008 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [transwarp_manager]> update service set version='tdh_aquila-standalone-9.3.4-final' where type='AQUILA';
Query OK, 1 row affected (0.035 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [transwarp_manager]> update service set version='transwarp-standalone-9.3.3-final' where type='ZOOKEEPER';
Query OK, 1 row affected (0.002 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [transwarp_manager]> update service set version='transwarp-standalone-9.3.3-final' where type='HDFS';
Query OK, 1 row affected (0.002 sec)
Rows matched: 1 Changed: 1 Warnings: 0

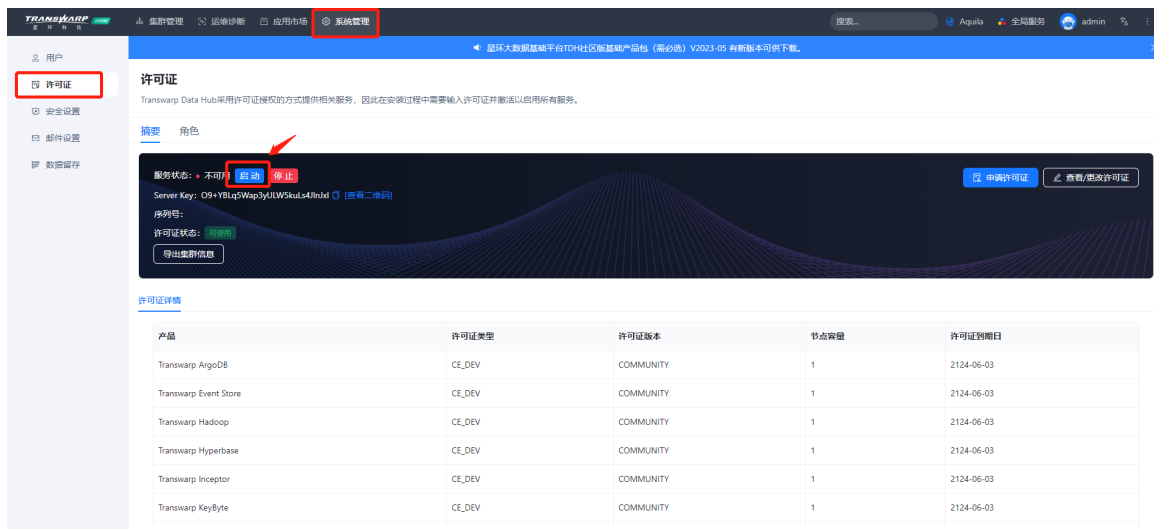
MariaDB [transwarp_manager]> update service set version='transwarp-standalone-9.3.3-final' where type='YARN';
Query OK, 1 row affected (0.002 sec)
Rows matched: 1 Changed: 1 Warnings: 0

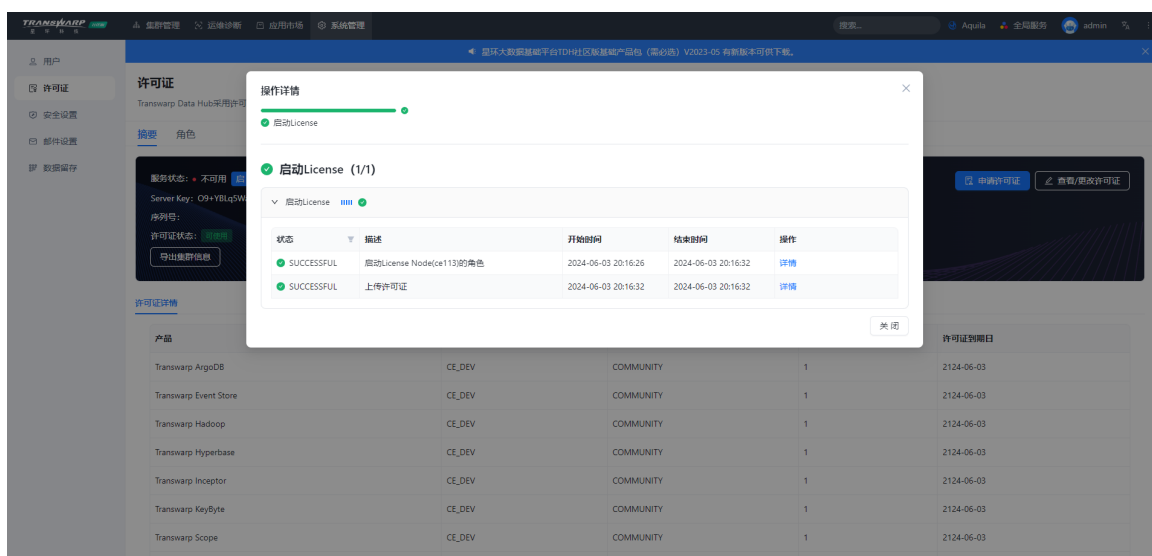
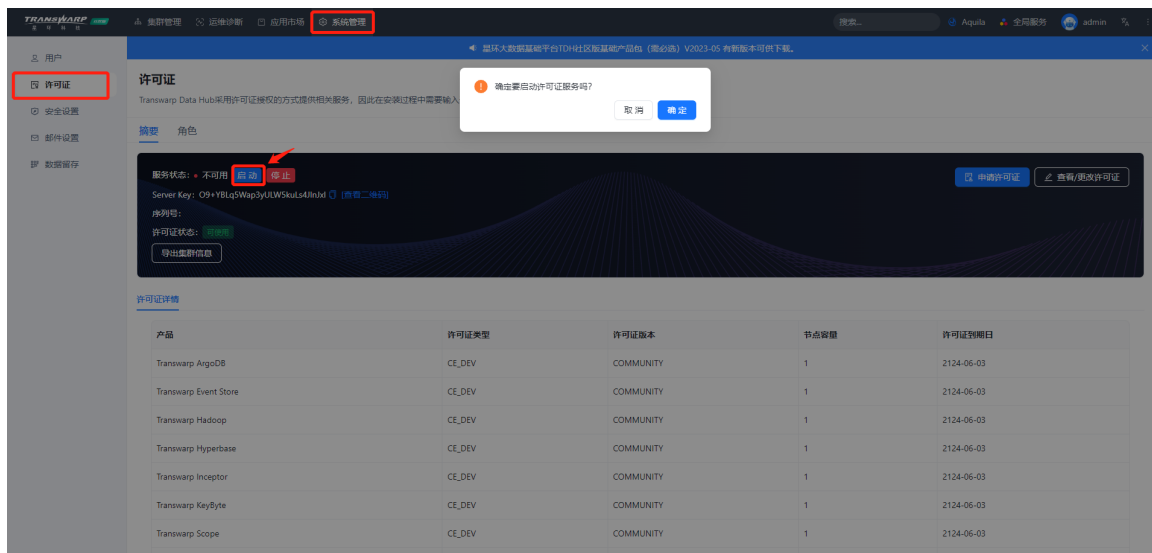
MariaDB [transwarp_manager]> update service set version='hyperbase-standalone-9.3.3-final' where type='HYPERBASE';
Query OK, 1 row affected (0.002 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [transwarp_manager]> update service set version='quark-standalone-8.37.4-final' where type='QUARK';
Query OK, 1 row affected (0.003 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [transwarp_manager]>
    
```

- 步骤五 登录Manager, 重启license server





- 步骤六 访问manager数据库，查找aquila对应的service id

```
select id from service where type='AQUILA';
```

```
MariaDB [transwarp_manager]> select id from service where type='AQUILA';
+----+
| id |
+----+
| 2 |
+----+
1 row in set (0.001 sec)
```

```

insert into service_config values(2, 'server.locale', 'zh_CN', NULL, '[]', NULL);
insert into service_config values(2, 'prometheus.remote.db', 'prometheus', NULL, '[]', NULL);
insert into service_config values(2, 'agent.process.exporter.enabled', 'true', NULL, '[]',
NULL);
insert into service_config values(2, 'agent.process.exporter.web.port', '9256', NULL, '[]',
NULL);
insert into service_config values(2, 'agent.metric.enabled', 'true', NULL, '[]', NULL);
insert into service_config values(2, 'kube.state.metrics.web.port', '8675', NULL, '[]', NULL);
insert into service_config values(2, 'kube.state.metrics.telemetry.port', '8676', NULL, '[]',
NULL);
insert into service_config values(2, 'kube.state.metrics.container.limits.memory', '1', NULL
, '[]', NULL);
insert into service_config values(2, 'kube.state.metrics.container.limits.cpu', '1', NULL,
'[]', NULL);
insert into service_config values(2, 'kube.state.metrics.container.requests.memory', '0.05'
, NULL, '[]', NULL);
insert into service_config values(2, 'kube.state.metrics.container.requests.cpu', '0.01',
NULL, '[]', NULL);
insert into service_config values(2, 'tdh.exporter.web.port', '8692', NULL, '[]', NULL);
insert into service_config values(2, 'tdh.exporter.metric.config.dir', '/etc/tdh-exporter'
, NULL, '[]', NULL);
insert into service_config values(2, 'tdh.exporter.memory', '1024', NULL, '[]', NULL);
insert into service_config values(2, 'tdh.exporter.container.limits.memory', '1', NULL, '[]'
, NULL);
insert into service_config values(2, 'tdh.exporter.container.limits.cpu', '1', NULL, '[]',
NULL);
insert into service_config values(2, 'tdh.exporter.container.requests.memory', '1', NULL, '[]'
, NULL);
insert into service_config values(2, 'tdh.exporter.container.requests.cpu', '0.05', NULL, '[]'
, NULL);
insert into service_config values(2, 'prometheus.kube.state.metrics.scrape_interval', '30'
, NULL, '[]', NULL);
insert into service_config values(2, 'prometheus.kube.state.metrics.scrape_timeout', '10'
, NULL, '[]', NULL);
insert into service_config values(2, 'prometheus.storage.retention.size', '80GB', NULL, '[]'
, NULL);
insert into service_config values(2, 'prometheus.worker.web.port', '8694', NULL, '[]', NULL);
insert into service_config values(2, 'alertmanager.web.port', '8693', NULL, '[]', NULL);
insert into service_config values(2, 'alertmanager.cluster.port', '8993', NULL, '[]', NULL);
insert into service_config values(2, 'alertmanager.global.resolve.timeout', '5m', NULL, '[]'
, NULL);
insert into service_config values(2, 'alertmanager.container.limits.memory', '0.5', NULL, '[]'
, NULL);
insert into service_config values(2, 'alertmanager.container.limits.cpu', '1', NULL, '[]',
NULL);
insert into service_config values(2, 'alertmanager.container.requests.memory', '0.5', NULL
, '[]', NULL);
insert into service_config values(2, 'alertmanager.container.requests.cpu', '0.5', NULL, '[]'
, NULL);
insert into service_config values(2, 'insight.storage.jdbc.url', '', NULL, '[]', NULL);
insert into service_config values(2, 'insight.https.enabled', 'false', NULL
, '['insight/application.yml']', NULL);
update service_config set groups='["dbaservice-application.yml"]' where
name='dbaservice.ui.port' and serviceId=2;
insert into service_config values(2, 'dbaservice.persistence.datadir', NULL, NULL
, '['dbaservice-application.yml']', NULL);
insert into service_config_node_entry values(2, 'dbaservice.persistence.datadir', 1, NULL
, '/opt/transwarp/data/dbaservice/aquila');
insert into service_config values(2, 'csv.retention-size-gb', '100', NULL, '['dbaservice-
application.yml']', NULL);
insert into service_config
values(2, 'dbaservice.https.enabled', 'false', NULL, '['dbaservice-application.yml']', NULL);

```



注意：您在执行时，有可能会报错，如下图。可忽略。继续进行后续步骤即可

```
MariaDB [transwarp_manager]> insert into service_config values(2,'kube.state.metrics.container.requests.memory','0.05',NULL,[]);
Query OK, 1 row affected (0.002 sec)

MariaDB [transwarp_manager]> insert into service_config values(2,'kube.state.metrics.container.requests.cpu','0.01',NULL,[]);
Query OK, 1 row affected (0.002 sec)

MariaDB [transwarp_manager]> insert into service_config values(2,'tdh.exporter.web.port','8692',NULL,[]);
ERROR 1062 (23000): Duplicate entry '2-tdh.exporter.web.port' for key 'PRIMARY'
MariaDB [transwarp_manager]> insert into service_config values(2,'tdh.exporter.metric.config.dir','/etc/tdh-exporter',NULL,[]);
ERROR 1062 (23000): Duplicate entry '2-tdh.exporter.metric.config.dir' for key 'PRIMARY'
MariaDB [transwarp_manager]> insert into service_config values(2,'tdh.exporter.memory','1024',NULL,[]);
ERROR 1062 (23000): Duplicate entry '2-tdh.exporter.memory' for key 'PRIMARY'
MariaDB [transwarp_manager]> insert into service_config values(2,'tdh.exporter.container.limits.memory','1',NULL,[]);
ERROR 1062 (23000): Duplicate entry '2-tdh.exporter.container.limits.memory' for key 'PRIMARY'
MariaDB [transwarp_manager]> insert into service_config values(2,'tdh.exporter.container.limits.cpu','1',NULL,[]);
ERROR 1062 (23000): Duplicate entry '2-tdh.exporter.container.limits.cpu' for key 'PRIMARY'
MariaDB [transwarp_manager]> insert into service_config values(2,'tdh.exporter.container.requests.memory','1',NULL,[]);
ERROR 1062 (23000): Duplicate entry '2-tdh.exporter.container.requests.memory' for key 'PRIMARY'
MariaDB [transwarp_manager]> insert into service_config values(2,'tdh.exporter.container.requests.cpu','0.05',NULL,[]);
ERROR 1062 (23000): Duplicate entry '2-tdh.exporter.container.requests.cpu' for key 'PRIMARY'
MariaDB [transwarp_manager]> insert into service_config values(2,'prometheus.kube.state.metrics.scrape_interval','30',NULL,[]);
Query OK, 1 row affected (0.002 sec)

MariaDB [transwarp_manager]> insert into service_config values(2,'prometheus.kube.state.metrics.scrape_timeout','10',NULL,[]);
Query OK, 1 row affected (0.002 sec)

MariaDB [transwarp_manager]> insert into service_config values(2,'prometheus.storage.retention.size','80GB',NULL,[]);
Query OK, 1 row affected (0.002 sec)

MariaDB [transwarp_manager]> insert into service_config values(2,'prometheus.worker.web.port','8694',NULL,[]);
Query OK, 1 row affected (0.002 sec)

MariaDB [transwarp_manager]> insert into service_config values(2,'alertmanager.web.port','8693',NULL,[]);
ERROR 1062 (23000): Duplicate entry '2-alertmanager.web.port' for key 'PRIMARY'
MariaDB [transwarp_manager]> insert into service_config values(2,'alertmanager.cluster.port','8993',NULL,[]);
Query OK, 1 row affected (0.002 sec)

MariaDB [transwarp_manager]> insert into service_config values(2,'alertmanager.global.resolve.timeout','5m',NULL,[]);
ERROR 1062 (23000): Duplicate entry '2-alertmanager.global.resolve.timeout' for key 'PRIMARY'
MariaDB [transwarp_manager]> insert into service_config values(2,'alertmanager.container.limits.memory','0.5',NULL,[]);
ERROR 1062 (23000): Duplicate entry '2-alertmanager.container.limits.memory' for key 'PRIMARY'
MariaDB [transwarp_manager]> insert into service_config values(2,'alertmanager.container.limits.cpu','1',NULL,[]);
ERROR 1062 (23000): Duplicate entry '2-alertmanager.container.limits.cpu' for key 'PRIMARY'
MariaDB [transwarp_manager]> insert into service_config values(2,'alertmanager.container.requests.memory','0.5',NULL,[]);
ERROR 1062 (23000): Duplicate entry '2-alertmanager.container.requests.memory' for key 'PRIMARY'
MariaDB [transwarp_manager]> insert into service_config values(2,'alertmanager.container.requests.cpu','0.5',NULL,[]);
ERROR 1062 (23000): Duplicate entry '2-alertmanager.container.requests.cpu' for key 'PRIMARY'
MariaDB [transwarp_manager]> insert into service_config values(2,'insight.storage.jdbc.url','',NULL,[]);
Query OK, 1 row affected (0.002 sec)

MariaDB [transwarp_manager]> insert into service_config values(2,'insight.https.enabled','false',NULL,['insight/application.yml']);
Query OK, 1 row affected (0.002 sec)

MariaDB [transwarp_manager]> update service_config set groups=['dbaservice-application.yml'] where name='dbaservice.ui.port' and serviceId=2;
Query OK, 1 row affected (0.002 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

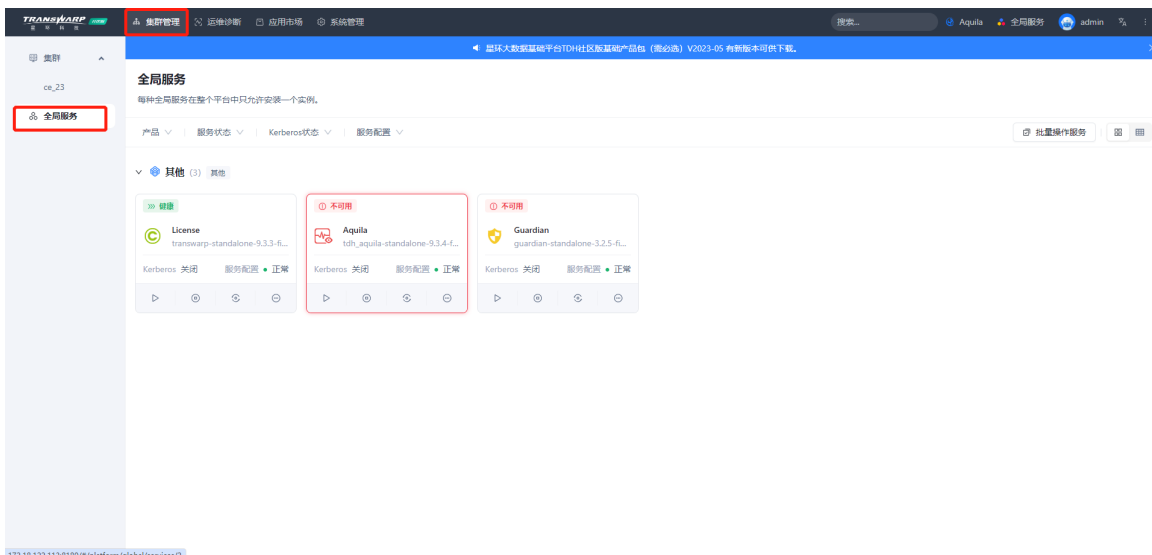
- 步骤七 退出数据库，回到pod中执行下方命令

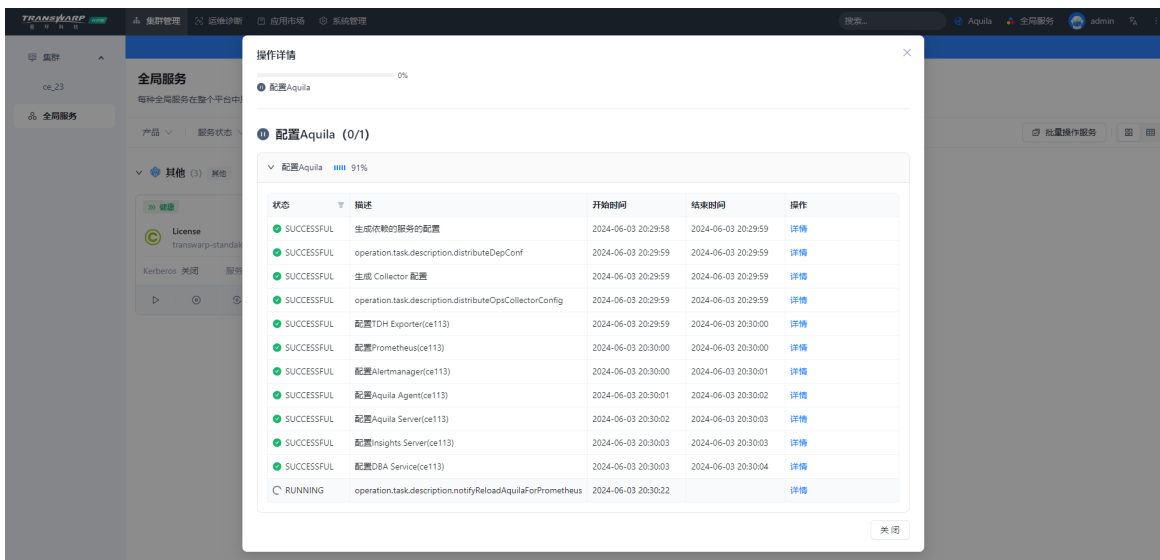
```
mkdir -p /var/run/secrets/kubernetes.io/serviceaccount/
mkdir -p /srv/kubernetes/
```

```
MariaDB [transwarp_manager]> insert into service_config
-> values(2,'dbaservice.https.enabled','false',NULL,['dbaservice-application.yml']);
Query OK, 1 row affected (0.004 sec)

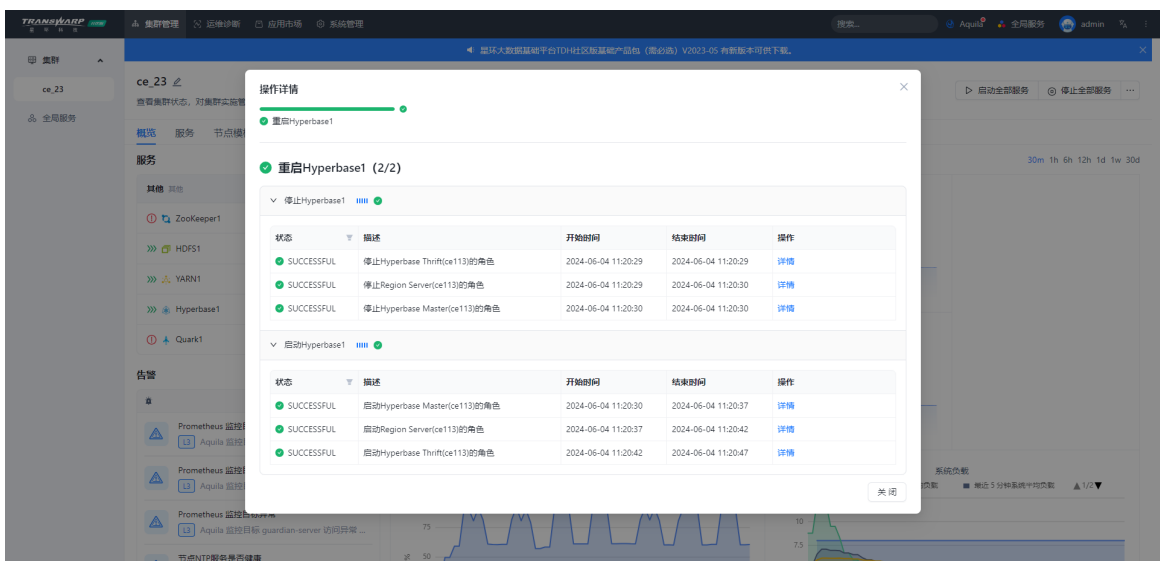
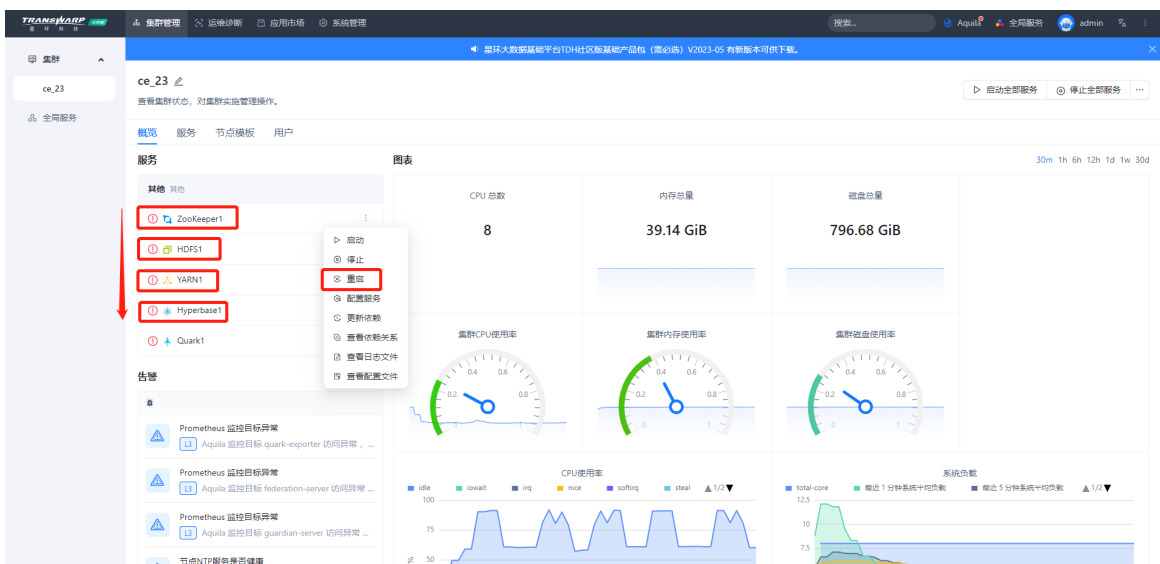
MariaDB [transwarp_manager]> Ctrl-C -- exit!
Aborted
[root@ce113 /]# mkdir -p /var/run/secrets/kubernetes.io/serviceaccount/
[root@ce113 /]# mkdir -p /srv/kubernetes/
[root@ce113 /]#
```

- 步骤八 访问manager页面，启动并配置aquila服务，记得先启动再配置。





- 步骤九 按照顺序，依次重启zookeeper、HDFS、YARN、HYPERBASE



- 步骤十 连接Manager数据库后更换Quark相关信息

```
select id from service where type='QUARK';
```

```
MariaDB [transwarp_manager]> select id from service where type='QUARK';
+----+
| id |
+----+
| 8 |
+----+
1 row in set (0.000 sec)

MariaDB [transwarp_manager]> insert into service_config values(8,'ngmr.tddms2.enabled','true',NULL,['hive-site.xml'],NULL);
Query OK, 1 row affected (0.004 sec)

MariaDB [transwarp_manager]> insert into service_config values(8,'crux.nightfury.coordinator.port','5771',NULL,[''],NULL);
Query OK, 1 row affected (0.013 sec)

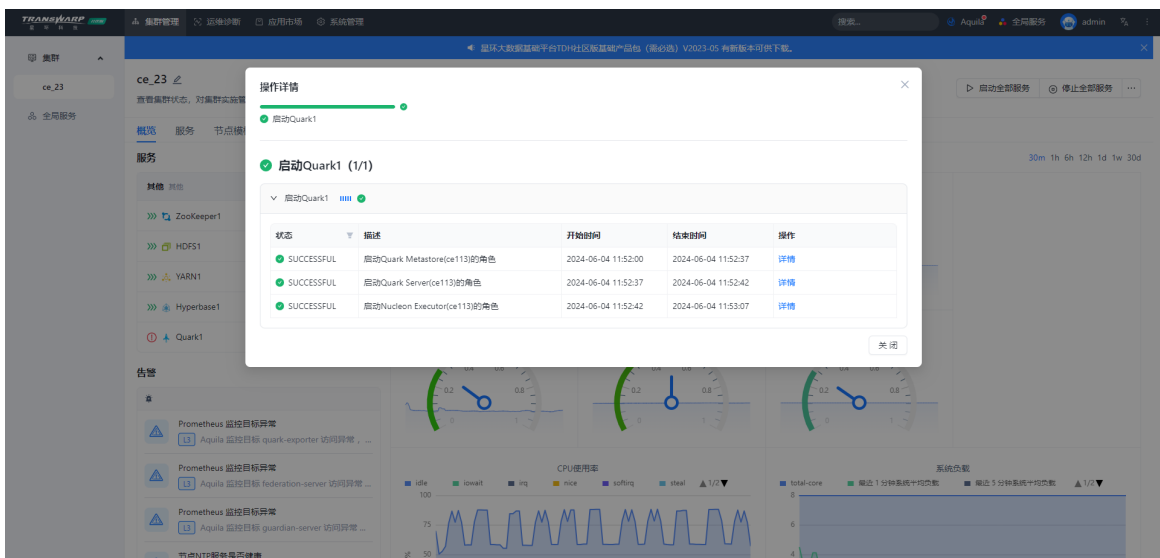
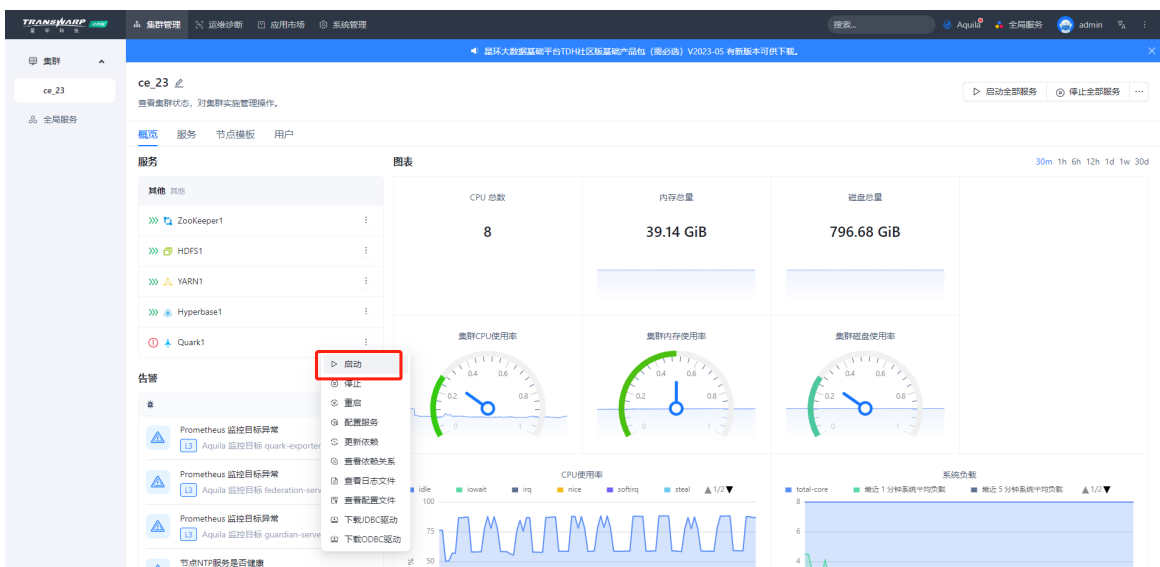
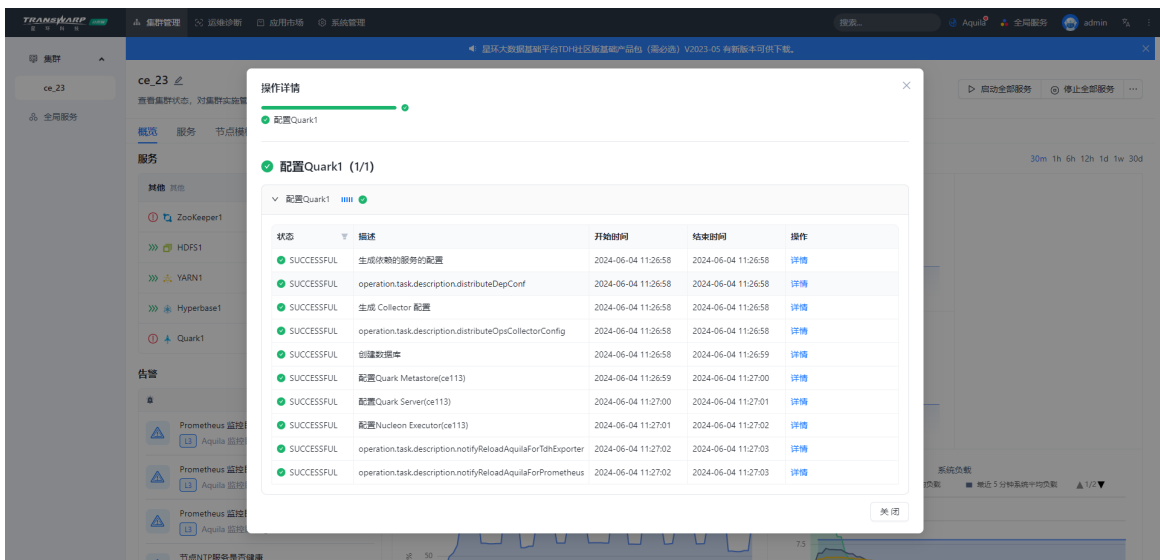
MariaDB [transwarp_manager]>
```



后面的serviceId替换成查询到的结果

```
insert into service_config values(8,'ngmr.tddms2.enabled','true',NULL,['hive-site.xml'],NULL);
insert into service_config values(8,'crux.nightfury.coordinator.port','5771',NULL,[''],NULL);
```

- 步骤十一 回到Manager页面配置并启动Quark即可



2.2.4. 更新TDH-Client客户端(按需)



注意：TDH开关安全或更新版本后均需要重新下载tdh-client.tar。

Manager为用户提供了两种下载tdh-client的方式，按需选择即可。

2.2.4.1. 方式一. Manager自带

- 步骤一 登录Manager页面后点击右上角下载客户端

The screenshot shows the TRANSWARP Manager interface. The main dashboard displays various metrics for the cluster 'DEV_TDH_24', including CPU usage (8), memory usage (39.14 GiB), and disk usage (796.68 GiB). A '下载客户端' (Download Client) dialog box is open, providing instructions for downloading the client. The dialog box contains the following text:

- 当前随产品包上传的客户端没有包含Hadoop客户端。
- 已安装的Hadoop 2系列服务端版本为: transwarp-standalone-9.3.3-final.

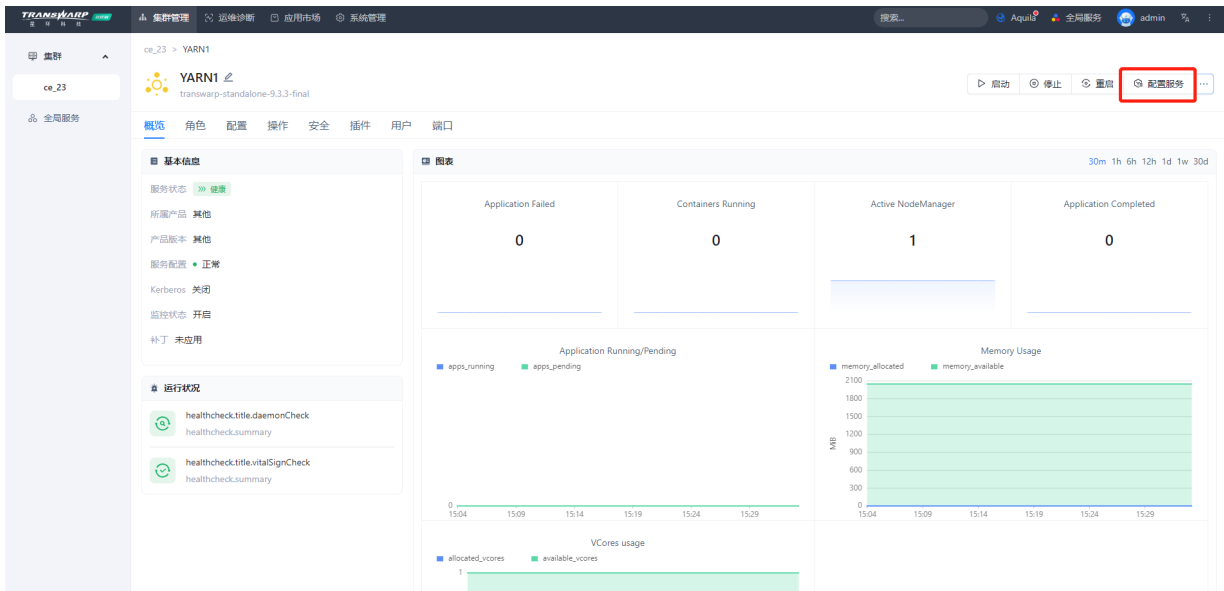
Under the '选择客户端类型' (Select Client Type) section, 'Manager自带' (Manager自带) is selected. Below this, there is a list of services to be downloaded:

全部服务	5项	已选服务
DEV_TDH_24	zookeeper1	<input type="checkbox"/>
	hdfs1	<input type="checkbox"/>
	yarn1	<input type="checkbox"/>
	hyperbase1	<input type="checkbox"/>
	quark1	<input type="checkbox"/>

Buttons for '取消' (Cancel) and '确定' (Confirm) are visible at the bottom of the dialog box.



如果您点击下载后没有反应，有可能是因为机器io较慢导致打包慢；如果3分钟后还是没有反应，可以选择重新配置下YARN服务再进行下载



- 步骤二 将下载后的tdh-client.tar上传至服务器，并解压。

```
tar -xvf tdh-client.tar
```

```
(base) [root@ce113 ~]# cd /mnt/disk1/standalone_23.5/
(base) [root@ce113 standalone_23.5]# ls
CryptoUtils.class  tdh-client.tar  tdh-standalone-2023.5.tar  TDH-Standalone-Community-Transwarp-2023.5-X86_64-final.tar.gz
(base) [root@ce113 standalone_23.5]# tar -xvf tdh-client.tar
TDH-Client/
TDH-Client/conf/
TDH-Client/conf/hyperbase1/
TDH-Client/conf/quark1/
TDH-Client/conf/quark1/.tmp-timestamp.xml
TDH-Client/conf/quark1/env
TDH-Client/conf/quark1/core-site.xml
TDH-Client/conf/quark1/executors
TDH-Client/conf/quark1/hive-env.sh
TDH-Client/conf/quark1/hive-site.xml
TDH-Client/conf/quark1/jaas.conf
TDH-Client/conf/quark1/my.cnf
TDH-Client/conf/quark1/ngmr-env.sh
```

- 步骤三 解压完成后，进入解压后的TDH-Client目录即可使用TDH-Client。

```
source ./init.sh
```



```
(base) [root@ce113 standalone_23.5]# cd TDH-Client/
(base) [root@ce113 TDH-Client]# ls
bundled_tdh_client_conf_hadoop_hosts_hyperbase_inceptor_init.sh kafka kerberos redis sqoop zookeeper
(base) [root@ce113 TDH-Client]# source ./init.sh
Already have all hostname in TDH Cluster.
Now change zkCli.sh to zookeeper-client
mv: overwrite '/mnt/disk1/standalone_23.5/TDH-Client/zookeeper/bin/zookeeper-client'? yes
Change zkCli.sh to zookeeper-client done
ERROR, can't find dstools dir: /mnt/disk1/standalone_23.5/TDH-Client/dstools
Init done!
(base) [root@ce113 TDH-Client]# beeline -u "jdbc:transwarp2://172.18.122.113:10000/default"
WARNING: log4j.properties is not found. HADOOP_CONF_DIR may be incomplete.
log4j:WARN No appenders could be found for logger (org.apache.hadoop.util.Shell).
log4j:WARN Please initialize the log4j system properly.
log4j:WARN See http://logging.apache.org/log4j/1.2/faq.html#noconfig for more info.
scan complete in 11ms
Connecting to jdbc:transwarp2://172.18.122.113:10000/default
Connected to: Apache Hive (version 8.37.3)
Driver: Inceptor JDBC (version 8.31.0)
Transaction isolation: TRANSACTION_REPEATABLE_READ
Beeline version 8.31.0 by Apache Hive
0: jdbc:transwarp2://172.18.122.113:10000/def> show databases;
+-----+
| database_name |
+-----+
| default       |
| dev_23        |
| discover      |
| system        |
+-----+
4 rows selected (0.562 seconds)
0: jdbc:transwarp2://172.18.122.113:10000/def> use dev_23;
No rows affected (0.073 seconds)
0: jdbc:transwarp2://172.18.122.113:10000/def> show tables;
+-----+
| tab_name |
+-----+
| emp       |
+-----+
1 row selected (0.085 seconds)
0: jdbc:transwarp2://172.18.122.113:10000/def> select * from emp;
+-----+-----+-----+-----+-----+-----+-----+
| id | workno | name | gender | age | idcard | workaddres |
+-----+-----+-----+-----+-----+-----+-----+
| 4  | 00004  | rachel | 女 | 18 | 123456757123845670 | 北京 |
| 12 | 00012  | Angel | 男 | 32 | 123446757152345670 | 北京 |
| 16 | 00016  | kate | 女 | 18 | NULL | 北京 |
| 1  | 00001  | lily | 女 | 20 | 123456789012345678 | 北京 |
| 5  | 00005  | mary | 女 | 32 | NULL | 上海 |
| 13 | 00013  | levy | 男 | 88 | 123656789012345678 | 江苏 |
| 2  | 00002  | bob | 男 | 18 | 123456789012345670 | 北京 |
| 14 | 00014  | lisa | 女 | 65 | 123456719012345670 | 西安 |
| 3  | 00003  | rachard | 男 | 38 | 123456789712345670 | 上海 |
| 15 | 00015  | allen | 男 | 70 | 12345674971234567X | 西安 |
+-----+-----+-----+-----+-----+-----+-----+

```

连接数据库教程：<https://community.transwarp.cn/article/328>

2.2.4.2. 方式二. 随产品包上传

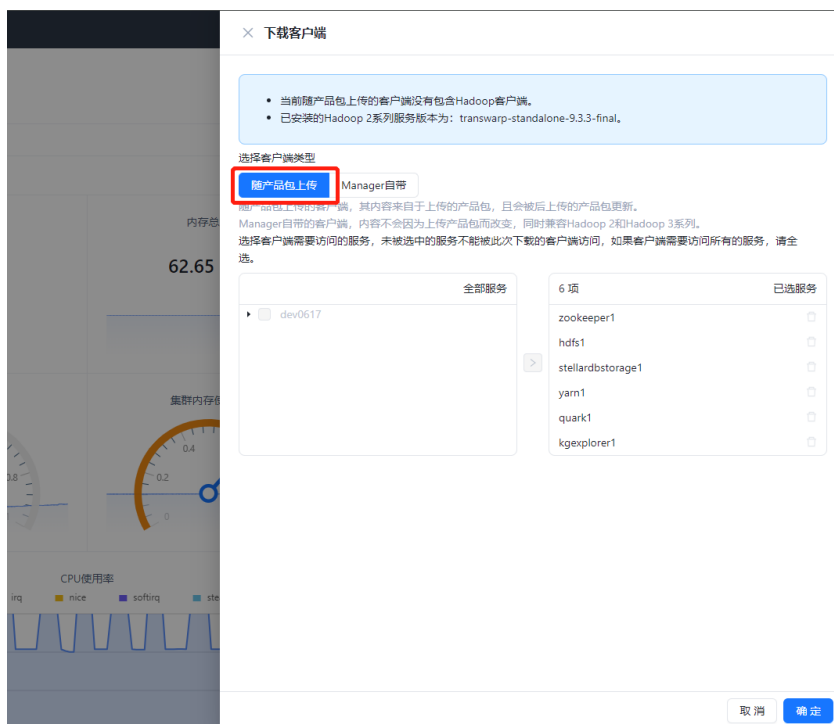
- 步骤一 登录Manager页面后点击右上角下载客户端

The screenshot shows the Transwarp Manager web interface. The main content area displays the 'DEV_TDH_24' cluster management page. On the right side, there is a 'Download Client' button. The page also features several monitoring charts and a list of services.

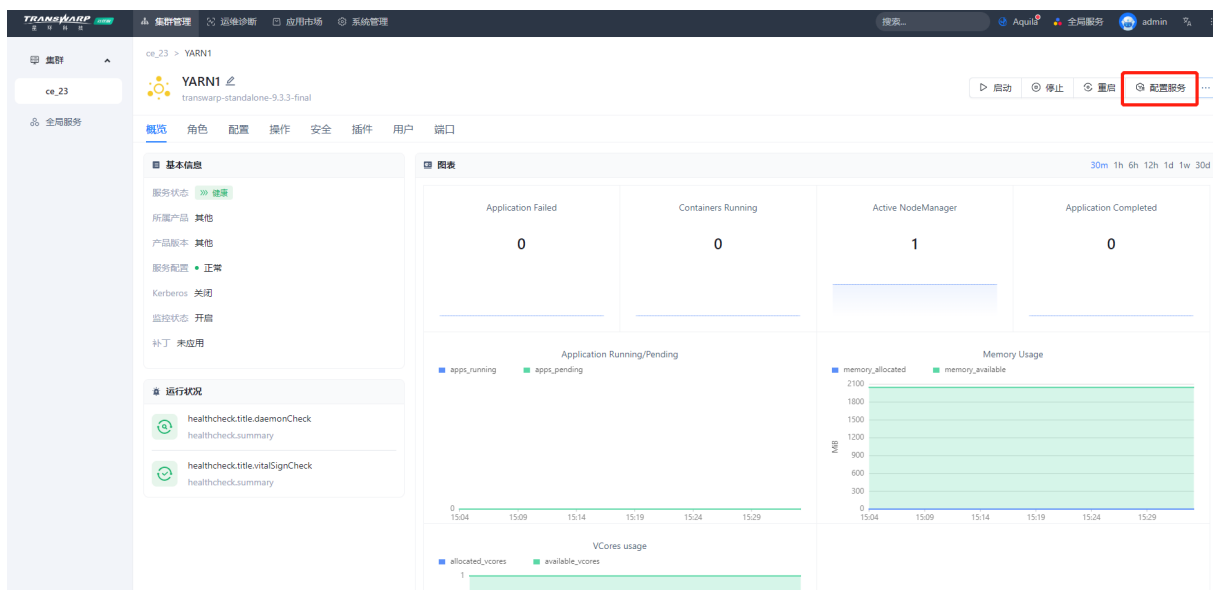
Service	Status
Zookeeper1	Running
HDFS1	Running
YARN1	Running
Hyperbase1	Running
Quark1	Running

Monitoring Charts:

- CPU 总数: 8
- 内存总量: 39.14 GiB
- 磁盘总量: 796.68 GiB
- 集群CPU使用率: 0.2
- 集群内存使用率: 0.2
- 集群磁盘使用率: 0.2
- CPU使用率: idle, iowait, irq, nice, softirq, steal
- 系统负载: total-core, 最近1分钟系统平均负载, 最近5分钟系统平均负载



如果您点击下载后没有反应，有可能是因为机器io较慢导致打包慢；如果3分钟后还是没有反应，可以选择重新配置下YARN服务再进行下载



- 步骤二 将下载后的tdh-client.tar上传至服务器，并解压到/root目录下：

```
tar -xvf tdh-client.tar
```

- 步骤三 拷贝容器内的bundled_tdh_client目录到/root目录下：

```
docker cp <containerid>:/var/lib/transwarp-manager/master/content/resources/bundled_tdh_client /root
```

- 步骤四 复制拷贝后bundled_tdh_client目录下的内容到/root/TDH-Client目录下：

```
cp -nr /root/bundled_tdh_client/* /root/TDH-Client
```

- **步骤五** 完成后进入TDH-Client目录执行下述指令即可使用TDH-Client。

```
source ./init.sh
```

连接数据库教程: <https://community.transwarp.cn/article/328>

3. 常见问题排查指南

3.1. 重启容器后服务组件全部都挂掉

按序依次启动即可：

1. 全局服务

License Server

Aquila

Guardian

2. 集群服务

一键启动

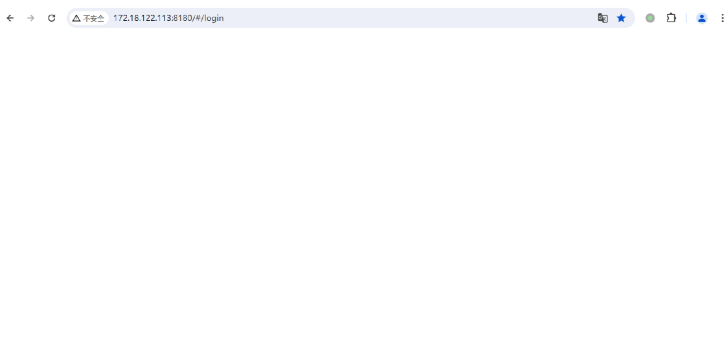
或Zookeeper → HDFS → YARN → Hyperbase → quark



3.2. 8180 Manager页面问题

3.2.1. 8180 Manager页面打开后无反应

【问题描述】



【解决办法】

清除缓存，重新刷新

3.2.2. 8180 Manager页面显示拒绝访问

【问题描述】



【问题根因】

在启动新的容器时，环境还有正在运行的其他容器，端口未释放，导致启动新容器时端口冲突。即使后续有停止其他容器，但是此时manager自启动已失败，所以无法访问。

【解决办法】



在启动新容器之前，请再次务必确保环境上没有正在运行的其他开发版产品容器。

1. 进入容器

```
docker ps
docker exec -it <containerid> bash
```

2. 查看manager服务状态

```
systemctl status transwarp-manager-db
```

3. 重启manager服务

```
systemctl restart transwarp-manager-db
```

3.3. 某个服务启动失败

3.3.1. 常规排查步骤

关于某个服务启动失败的常规排查步骤：

1. 重试当前task，看能否启动成功
2. 返回服务主界面，选择重启服务，看能否启动成功
3. 通过 `systemctl list-units | grep <组件名>`，查找服务角色对应的service
4. 通过 `systemctl status <service_name>` 查看服务角色状态
5. 查看服务日志，看是否有明显报错
6. 若无日志生成，通过 `journalctl -u <service_name>` 查看服务启动日志，看是否有明显报错

3.3.2. 可能的原因1. 端口冲突导致

【问题描述】

安装过程中您可能会遇到启动某个服务失败，比如zookeeper启动失败。

【排查思路】

进入容器内部，查看/var/log下的日志。该目录下存有TDH各服务组件的日志，当服务启动失败或遇到不可用等问题，可在此目录下查看对应服务的日志。

```
(base) [root@ce113 standalone_24.5]# docker exec -it bb843ca78ae1 bash
[root@ce113 /]# cd /var/log
[root@ce113 log]# ls
anaconda  btmp          dnf.log      federation  hawkey.log  hyperbase1  lastlog     mariadb     quark1      wtmp        zookeeper1
aquila    dnf.librepo.log  dnf.rpm.log  guardian    hdf51       journal     license     private     transwarp-manager  yarn1
```

比如本示例是Zookeeper启动失败，因此查看/var/log/zookeeper1/zookeeper.log即可。

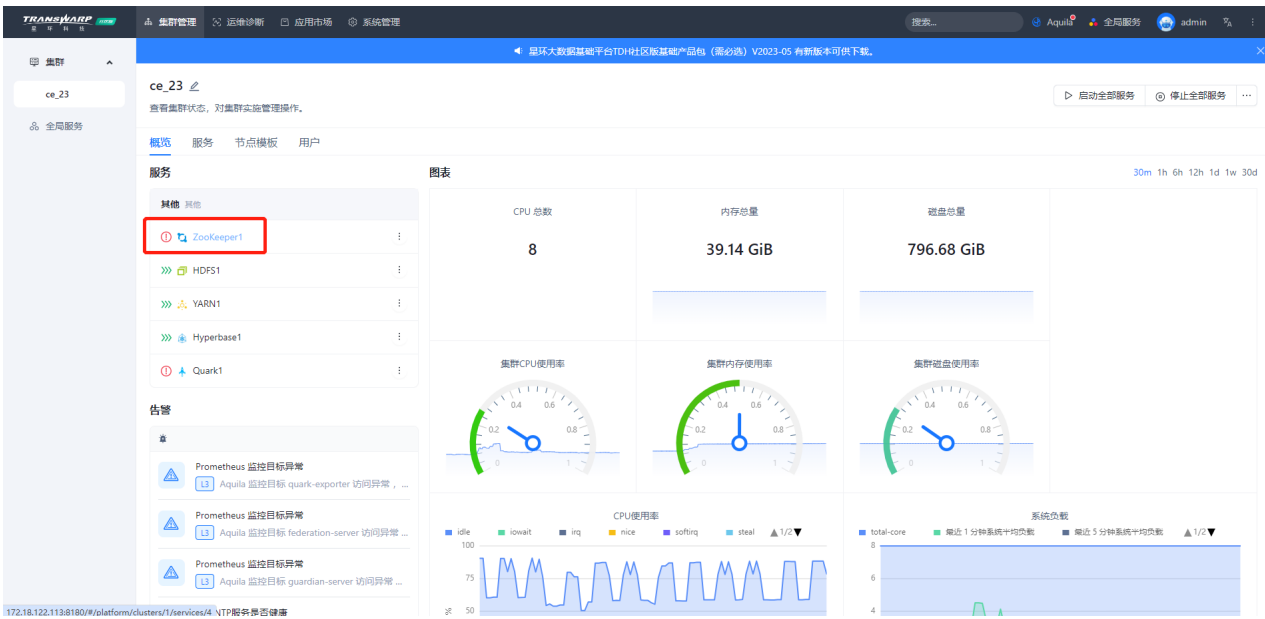
```
[root@ce113 zookeeper1]# ls
zookeeper.log
[root@ce113 zookeeper1]# cat zookeeper.log
2024-06-04 06:22:23,752 INFO org.apache.zookeeper.server.quorum.QuorumPeerConfig: [myid:] - [main:QuorumPeerConfig@135] - Reading configuration from: /etc/zookeeper1/conf/zoo.cfg
2024-06-04 06:22:23,760 INFO org.apache.zookeeper.server.quorum.QuorumPeerConfig: [myid:] - [main:QuorumPeerConfig@387] - clientPortAddress is 0.0.0.0:2181
2024-06-04 06:22:23,761 INFO org.apache.zookeeper.server.quorum.QuorumPeerConfig: [myid:] - [main:QuorumPeerConfig@391] - secureClientPort is not set
2024-06-04 06:22:23,768 ERROR org.apache.zookeeper.server.quorum.QuorumPeerConfig: [myid:] - [main:QuorumPeerConfig@647] - Invalid configuration, only one server specified (ignoring)
2024-06-04 06:22:23,771 INFO org.apache.zookeeper.server.DataDirCleanupManager: [myid:] - [main:DataDirCleanupManager@78] - autopurge.snapshotRetainCount set to 10
2024-06-04 06:22:23,771 INFO org.apache.zookeeper.server.DataDirCleanupManager: [myid:] - [main:DataDirCleanupManager@79] - autopurge.purgeInterval set to 1
2024-06-04 06:22:23,773 WARN org.apache.zookeeper.server.quorum.QuorumPeerMain: [myid:] - [main:QuorumPeerMain@125] - Either no config or no quorum defined in config, running in stand
alone mode
2024-06-04 06:22:23,773 INFO org.apache.zookeeper.server.DataDirCleanupManager: [myid:] - [PurgeTask:DataDirCleanupManager$PurgeTask@138] - Purge task started.
2024-06-04 06:22:23,777 INFO org.apache.zookeeper.server.persistence.FileTxnSnapLog: [myid:] - [PurgeTask:FileTxnSnapLog@115] - zookeeper.snapshot.trust.empty : false
2024-06-04 06:22:23,778 INFO org.apache.zookeeper.jmx.ManagedUtil: [myid:] - [main:ManagedUtil@45] - Log4j 1-2 jmx support found and enabled.
2024-06-04 06:22:23,783 INFO org.apache.zookeeper.server.DataDirCleanupManager: [myid:] - [PurgeTask:DataDirCleanupManager$PurgeTask@144] - Purge task completed.
2024-06-04 06:22:23,789 INFO org.apache.zookeeper.server.quorum.QuorumPeerConfig: [myid:] - [main:QuorumPeerConfig@135] - Reading configuration from: /etc/zookeeper1/conf/zoo.cfg
2024-06-04 06:22:23,790 INFO org.apache.zookeeper.server.quorum.QuorumPeerConfig: [myid:] - [main:QuorumPeerConfig@387] - clientPortAddress is 0.0.0.0:2181
2024-06-04 06:22:23,790 INFO org.apache.zookeeper.server.quorum.QuorumPeerConfig: [myid:] - [main:QuorumPeerConfig@391] - secureClientPort is not set
2024-06-04 06:22:23,790 ERROR org.apache.zookeeper.server.quorum.QuorumPeerConfig: [myid:] - [main:QuorumPeerConfig@647] - Invalid configuration, only one server specified (ignoring)
2024-06-04 06:22:23,791 INFO org.apache.zookeeper.server.ZooKeeperServerMain: [myid:] - [main:ZooKeeperServerMain@117] - Starting server
2024-06-04 06:22:23,793 INFO org.apache.zookeeper.server.persistence.FileTxnSnapLog: [myid:] - [main:FileTxnSnapLog@115] - zookeeper.snapshot.trust.empty : false
2024-06-04 06:22:23,801 INFO org.apache.zookeeper.server.ZooKeeperServer: [myid:] - [main:Environment@109] - Server environment:zookeeper.version=3.5.6-transwarp-8.1.0-8405fde5594b7ef
3879ac42065949bb495639f7, built on 07/27/2023 06:33 GMT
2024-06-04 06:22:23,802 INFO org.apache.zookeeper.server.ZooKeeperServer: [myid:] - [main:Environment@109] - Server environment:host.name=ce113
2024-06-04 06:22:23,802 INFO org.apache.zookeeper.server.ZooKeeperServer: [myid:] - [main:Environment@109] - Server environment:java.version=1.8.0_312
2024-06-04 06:22:23,802 INFO org.apache.zookeeper.server.ZooKeeperServer: [myid:] - [main:Environment@109] - Server environment:java.vendor=Red Hat, Inc.
2024-06-04 06:22:23,802 INFO org.apache.zookeeper.server.ZooKeeperServer: [myid:] - [main:Environment@109] - Server environment:java.home=/usr/lib/jvm/java-1.8.0-openjdk-1.8.0.312.b07-
2.el9.x86_64/jre
2024-06-04 06:22:23,802 INFO org.apache.zookeeper.server.ZooKeeperServer: [myid:] - [main:Environment@109] - Server environment:java.class.path=/usr/lib/zookeeper/zookeeper-3.5.8-trans
warp-8.1.0-with-dependencies.jar:/etc/zookeeper1/conf
2024-06-04 06:22:23,802 INFO org.apache.zookeeper.server.ZooKeeperServer: [myid:] - [main:Environment@109] - Server environment:java.library.path=/usr/java/packages/lib/amd64:/usr/lib6
4:/lib64:/lib:/usr/lib
2024-06-04 06:22:23,802 INFO org.apache.zookeeper.server.ZooKeeperServer: [myid:] - [main:Environment@109] - Server environment:java.io.tmpdir=/tmp
2024-06-04 06:22:23,802 INFO org.apache.zookeeper.server.ZooKeeperServer: [myid:] - [main:Environment@109] - Server environment:java.compiler=NA
2024-06-04 06:22:23,802 INFO org.apache.zookeeper.server.ZooKeeperServer: [myid:] - [main:Environment@109] - Server environment:os.name=linux
2024-06-04 06:22:23,802 INFO org.apache.zookeeper.server.ZooKeeperServer: [myid:] - [main:Environment@109] - Server environment:os.arch=amd64
2024-06-04 06:22:23,803 INFO org.apache.zookeeper.server.ZooKeeperServer: [myid:] - [main:Environment@109] - Server environment:os.version=3.10.0-957.el7.x86_64
2024-06-04 06:22:23,803 INFO org.apache.zookeeper.server.ZooKeeperServer: [myid:] - [main:Environment@109] - Server environment:user.name=zookeeper
2024-06-04 06:22:23,803 INFO org.apache.zookeeper.server.ZooKeeperServer: [myid:] - [main:Environment@109] - Server environment:user.home=/home/zookeeper
2024-06-04 06:22:23,803 INFO org.apache.zookeeper.server.ZooKeeperServer: [myid:] - [main:Environment@109] - Server environment:user.dir=/
2024-06-04 06:22:23,803 INFO org.apache.zookeeper.server.ZooKeeperServer: [myid:] - [main:Environment@109] - Server environment:os.memory.free=233MB
2024-06-04 06:22:23,803 INFO org.apache.zookeeper.server.ZooKeeperServer: [myid:] - [main:Environment@109] - Server environment:os.memory.max=245MB
2024-06-04 06:22:23,803 INFO org.apache.zookeeper.server.ZooKeeperServer: [myid:] - [main:Environment@109] - Server environment:os.memory.total=245MB
2024-06-04 06:22:23,805 INFO org.apache.zookeeper.server.ZooKeeperServer: [myid:] - [main:ZooKeeperServer@939] - minSessionTimeout set to 18000
2024-06-04 06:22:23,805 INFO org.apache.zookeeper.server.ZooKeeperServer: [myid:] - [main:ZooKeeperServer@948] - maxSessionTimeout set to 18000
2024-06-04 06:22:23,806 INFO org.apache.zookeeper.server.ZooKeeperServer: [myid:] - [main:ZooKeeperServer@167] - Created server with tickTime 9000 minSessionTimeout 18000 maxSessionTim
eout 18000 dataDir /opt/transwarp/data/zookeeper1/vers ton-2 snapDir /opt/transwarp/data/zookeeper1/vers ton-2
2024-06-04 06:22:23,815 INFO org.apache.zookeeper.server.ServerCnxnFactory: [myid:] - [main:ServerCnxnFactory@135] - Using org.apache.zookeeper.server.NIOServerCnxnFactory as server co
nnection factory
2024-06-04 06:22:23,818 INFO org.apache.zookeeper.server.NIOServerCnxnFactory: [myid:] - [main:NIOServerCnxnFactory@673] - Configuring NIO connection handler with 10s sessionless connec
tion timeout, 2 selector thread(s), 16 worker threads, and 64 kB direct buffers.
2024-06-04 06:22:23,825 INFO org.apache.zookeeper.server.NIOServerCnxnFactory: [myid:] - [main:NIOServerCnxnFactory@686] - Binding to port 0.0.0.0/0.0.0.0:2181
2024-06-04 06:22:23,826 ERROR org.apache.zookeeper.server.ZooKeeperServerMain: [myid:] - [main:ZooKeeperServerMain@83] - Unexpected exception, exiting abnormally
java.net.BindException: Address already in use
    at sun.nio.ch.Net.bind0(Native Method)
    at sun.nio.ch.Net.bind(Net.java:461)
```

根据日志显示：“Address already in use”。该信息表示端口已被占用，页面有时可以显示出具体涉及的端口。如果没有显示，可以通过下述方式确认冲突的端口信息。

1. 查看是哪个服务哪个角色启动报错
2. 登录manager页面查看这个服务/角色对应有哪些端口配置
3. 通过netstat -nulp | grep <目标端口> 查看是否占用
4. 修改端口配置到一个没被占用的端口，配置服务重启服务。



注意，由于zookeeper是基础服务，后续该服务配置更改有记录会导致quark不可用，因此zookeeper恢复正常后也需要重新配置quark并重启quark

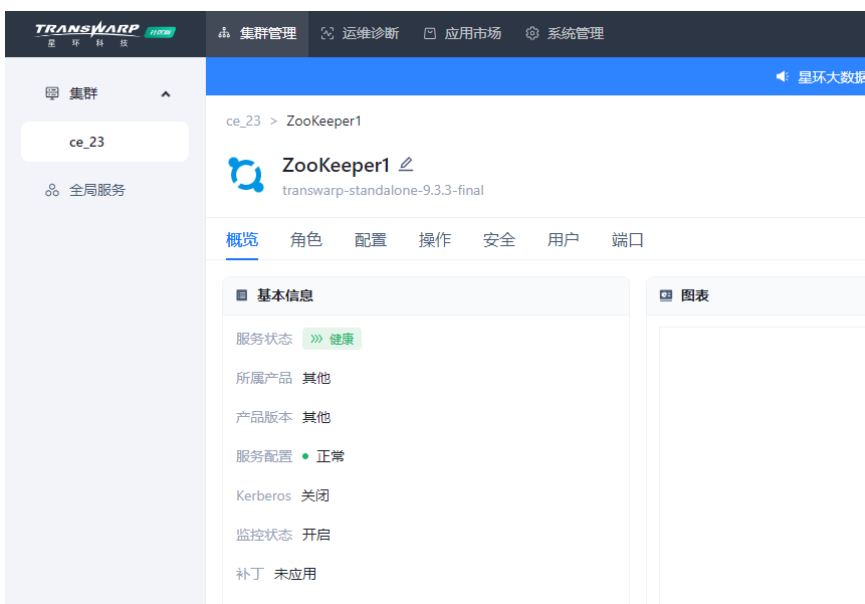
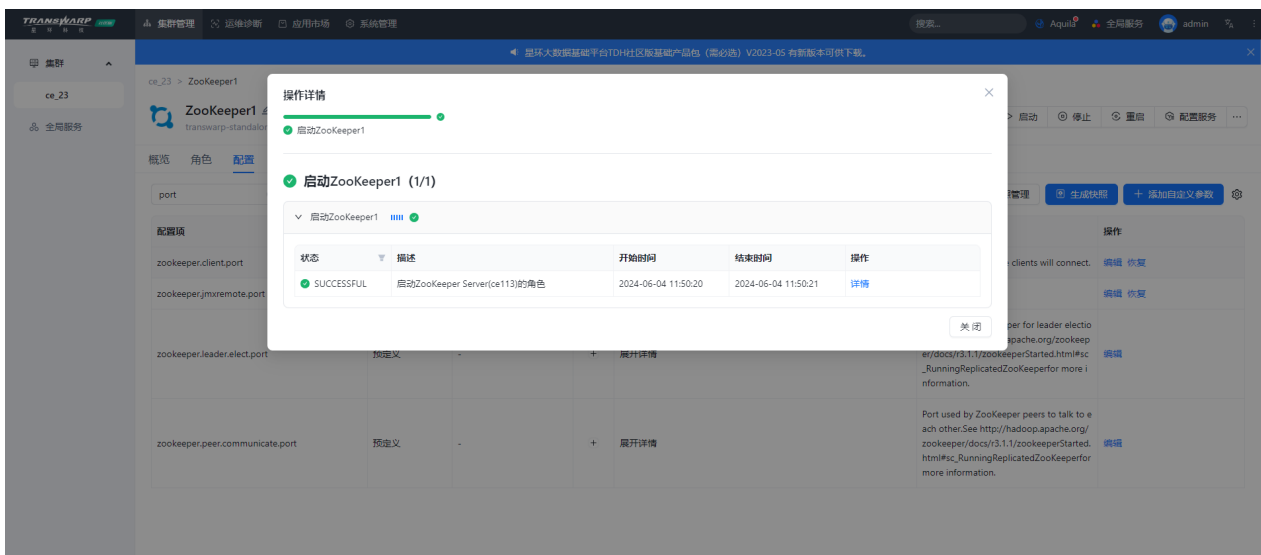
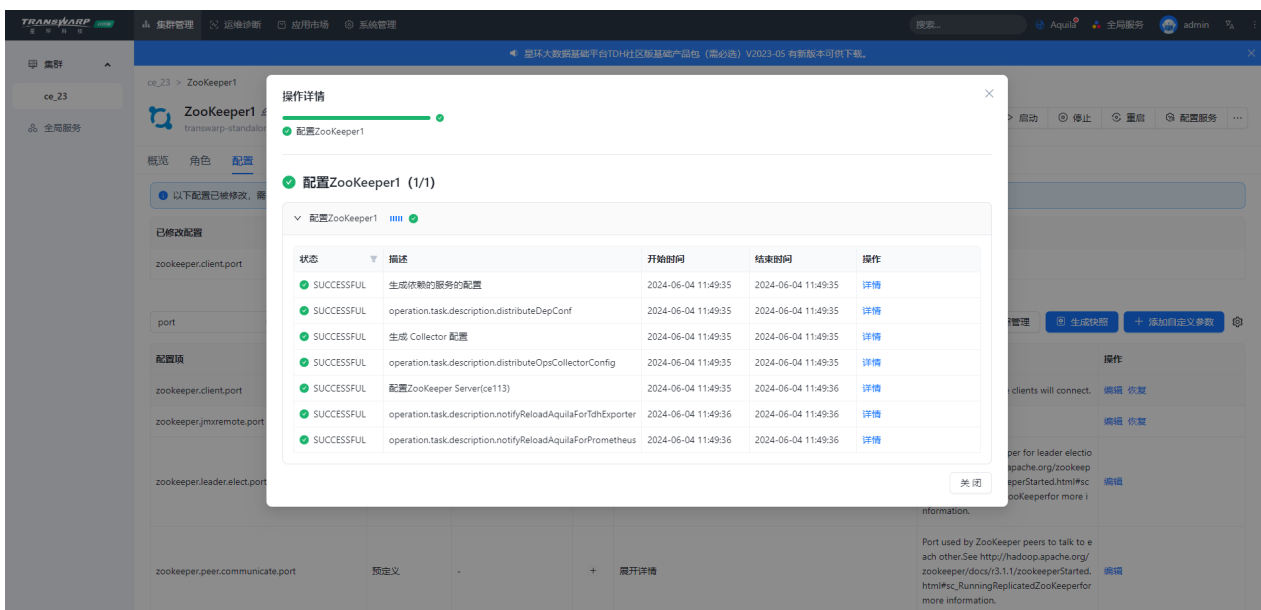


The screenshot shows the configuration page for 'ZooKeeper1'. A search bar contains 'port'. The configuration table is as follows:

配置项	配置类型	配置文件	值	描述	操作
zookeeper.client.port	预定义	-	2181	The port at which the clients will connect.	编辑 恢复
zookeeper.jmxremote.port	预定义	-	9911	-	编辑 恢复
zookeeper.leader.elect.port	预定义	-	+	Port used by ZooKeeper for leader election. See http://hadoop.apache.org/zookeeper/docs/3.1.1/zookeeperStarted.html#sc_RunningReplicatedZooKeeper for more information.	编辑
zookeeper.peer.communicate.port	预定义	-	+	Port used by ZooKeeper peers to talk to each other. See http://hadoop.apache.org/zookeeper/docs/3.1.1/zookeeperStarted.html#sc_RunningReplicatedZooKeeper for more information.	编辑

```
[root@ce113 zookeeper1]# netstat -naIp | grep 2181
tcp        0      0 0.0.0.0:2181          0.0.0.0:*            LISTEN      -
tcp        0      0 172.18.122.113:53210 172.18.122.113:2181  ESTABLISHED 15331/java
tcp        0      0 172.18.122.113:53178 172.18.122.113:2181  ESTABLISHED 14549/java
tcp        0      0 172.18.122.113:53194 172.18.122.113:2181  ESTABLISHED 14549/java
tcp6       0      0 :::2181              :::*                  LISTEN      -
tcp6       0      0 172.18.122.113:33258 172.18.122.113:2181  TIME_WAIT   -
tcp6       0      0 172.18.122.113:33044 172.18.122.113:2181  TIME_WAIT   -
tcp6       0      0 172.18.122.113:33096 172.18.122.113:2181  TIME_WAIT   -
```

The screenshot shows the configuration page for 'ZooKeeper1' with the '重启' (Restart) button highlighted in red. The configuration table is identical to the previous screenshot.



客户服务

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