



ES快速开发框架

ES-Sara

携程-丁子夜



+ 简述

+ 功能

+ More

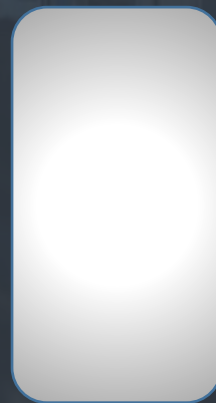
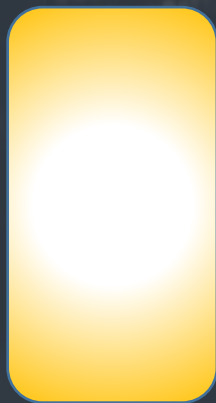
+ Q & A

+ 主 要
内 容

简述

ES-Sara是内容信息搜索组开发的基于ES的快速开发框架，为开发人员带来更高效的开发体验。

目前已接入应用20+，索引数：40+





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内 容

ES-Sara

Syncer

数据同步

Manager

治理系统

Searcher

搜索API



Syncer



开发效率



可靠性



Syncer

基于配置

分布式

全量/增量模式

数据验证

双写

Syncer

```
<?xml version="1.0" encoding="utf-8" ?>
<rules>
  <rule name="syncData">
    <plugins>
      <plugin name="ContentFullPlugin" key="article_id"/>
    </plugins>
    <query name="non-default-query-name" db="contentdb_W" key="article_id" version_field="datachange_lasttime">
      <sql>
        <![CDATA[
          SELECT id as article_id
            ,source_type
            ,title
            ,outline
            ,author_id
            ,datachange_lasttime
          FROM article
          WHERE id > ${id}
          ORDER BY id ASC limit 100
        ]]>
      </sql>
    </query>
  </rule>
  <index id="article_id" index="article" type="articles" mappingFile="./article.mapping">
  </index>
</rules>
```




Syncer

```
<?xml version="1.0" encoding="utf-8" ?>
<plugins>
  <plugin name="ContentFullPlugin" type="com.ctrip.gs.search.es.das.plugin.AssocPlugin">
    <params>
      <param name="db"> content_devdb_W </param>
      <param name="key">article_id</param>
      <param name="sql">
        <![CDATA[
          SELECT article_id
            ,txt
            ,id as business_id
          FROM article_content
          WHERE article_id IN (${id})
            AND publish_status = 2 and resource_type = 1
          ORDER BY article_id
            ,sort_index
        ]]>
      </param>
    </params>
    <columns>
      <column source="txt" target="content" merge="true" separator="\r\n"/>
      <column source="business_id" target="business_ids" filters="distinct"/>
    </columns>
  </plugin>
```

Syncer

```
<?xml version="1.0" ?>
<rules>
  <rule name="syncDataFromQmq">
    <qmq name="non-default-name" topic="topic_name" key="article_id" mode="pull/listen" batch_size="200">
      <![CDATA[
        article_id,
        title,
        content,
        publish_status->publishstatus
      ]]>
    </qmq>
  </rule>
  <index id="article_id" index="article" type="articles" mappingKey="article.mapping">
  </index>
</rules>
```

Producer



Syncer



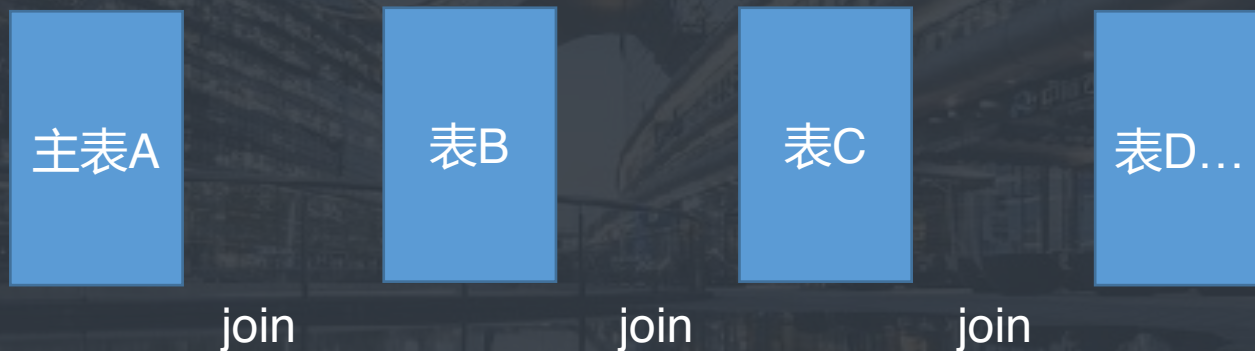
ES

Syncer



关联表更新问题？

Syncer

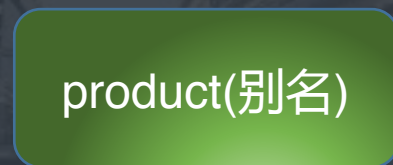


```
WHERE A.Datachange_lasttime > @time  
OR B.Datachange_lasttime > @time  
OR C.Datachange_lasttime > @time  
OR D.Datachange_lasttime > @time
```

关联表更新问题？

方案1：join

Syncer



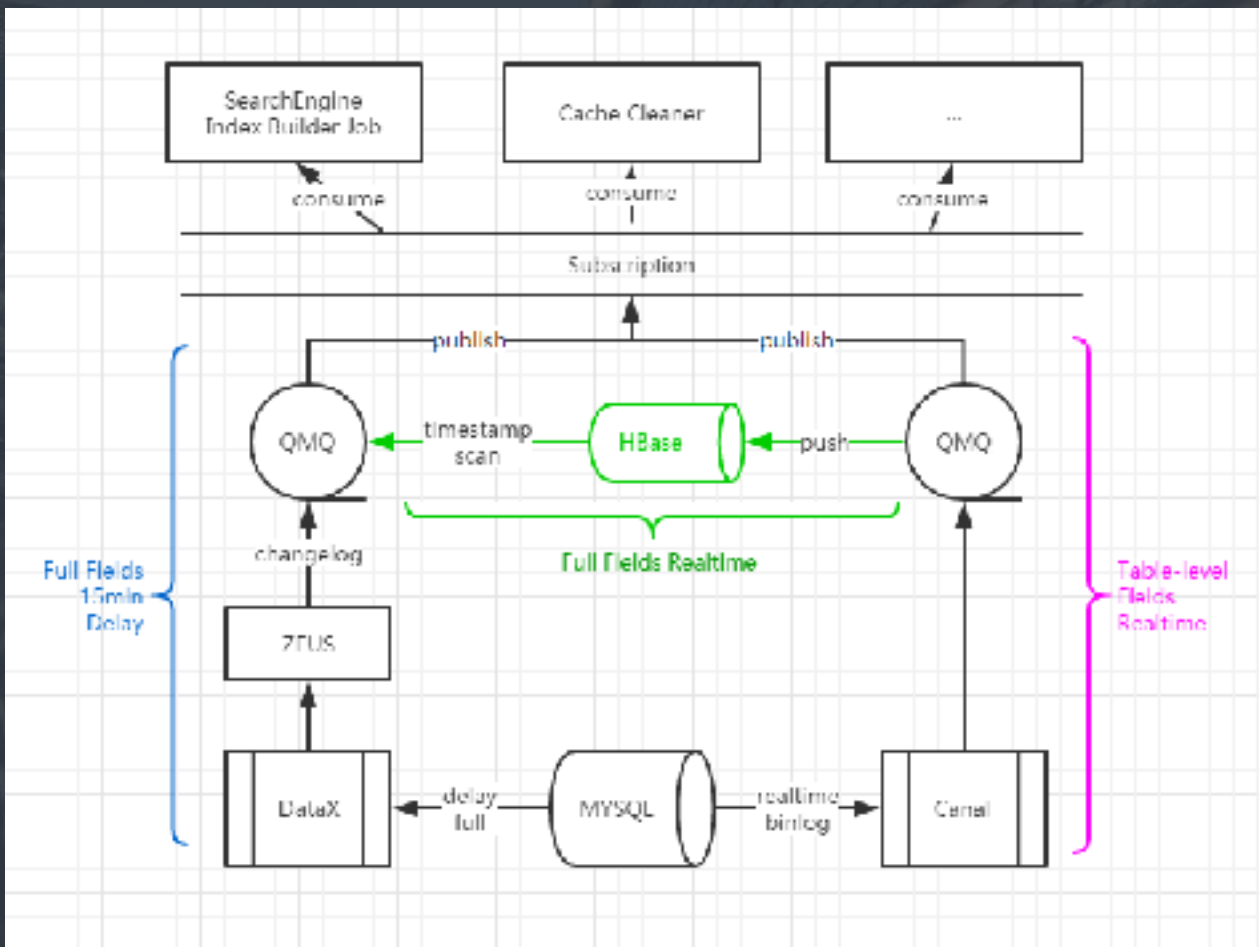
product-001



product-002

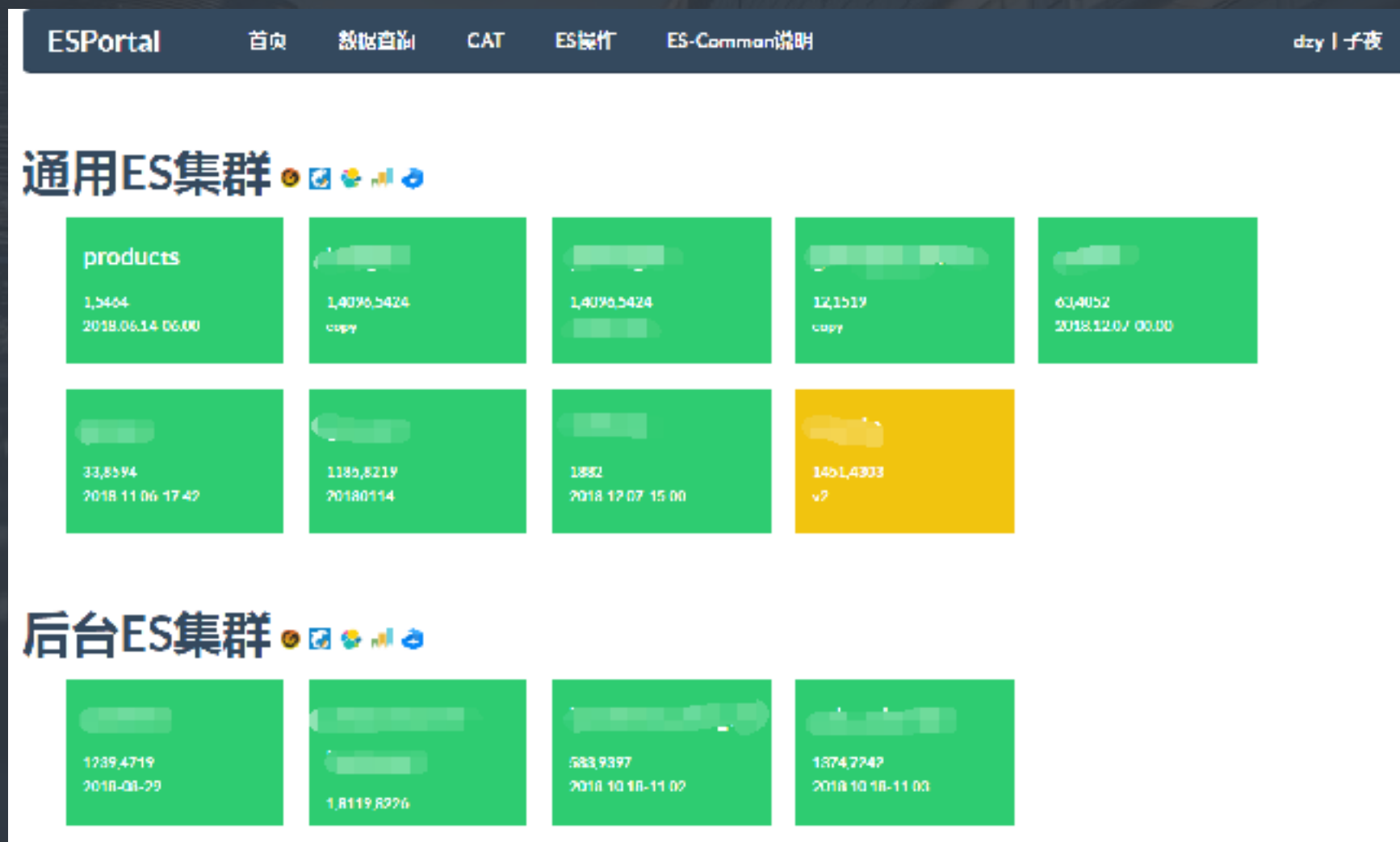
关联表更新问题？
方案2：全量索引切换

Syncer



关联表更新问题？

方案3：大数据平台差异更新



ESPortal

[首页](#)[数据查询](#)[CAT](#)[ES操作](#)[ES-Common说明](#)

dzy丁子夜

tempIndex

索引版本	Shard/Repl	文档	删除	类型	大小	操作
2018.11.23 10.47	5/1	4,1103,5034	8,8435	/ 默认	170.8gb	open ▼
2018.11.15 12.47	6/1	2,5911,3174	6,4277	/	120.6gb	open ▼

删除

设为默认

ReIndex

打开

关闭

ESPortal

首页 数据查询 CAT ES操作 ES-Common说明

dzy丁丁俊

ReIndex

新建ReIndex任务

选择:

源索引:

目标索引:

Batch:

全系统所有索引

recommend

新建索引

1000

开始ReIndex

Searcher

```
{
  "query": {
    "bool": {
      "must": [
        { "match": { "title": "Search" } },
        { "match": { "content": "Elasticsearch" } }
      ],
      "filter": [
        { "term": { "status": "published" } },
        { "range": { "publish_date": { "gte": "2015-01-01" } } }
      ]
    }
  }
}
```

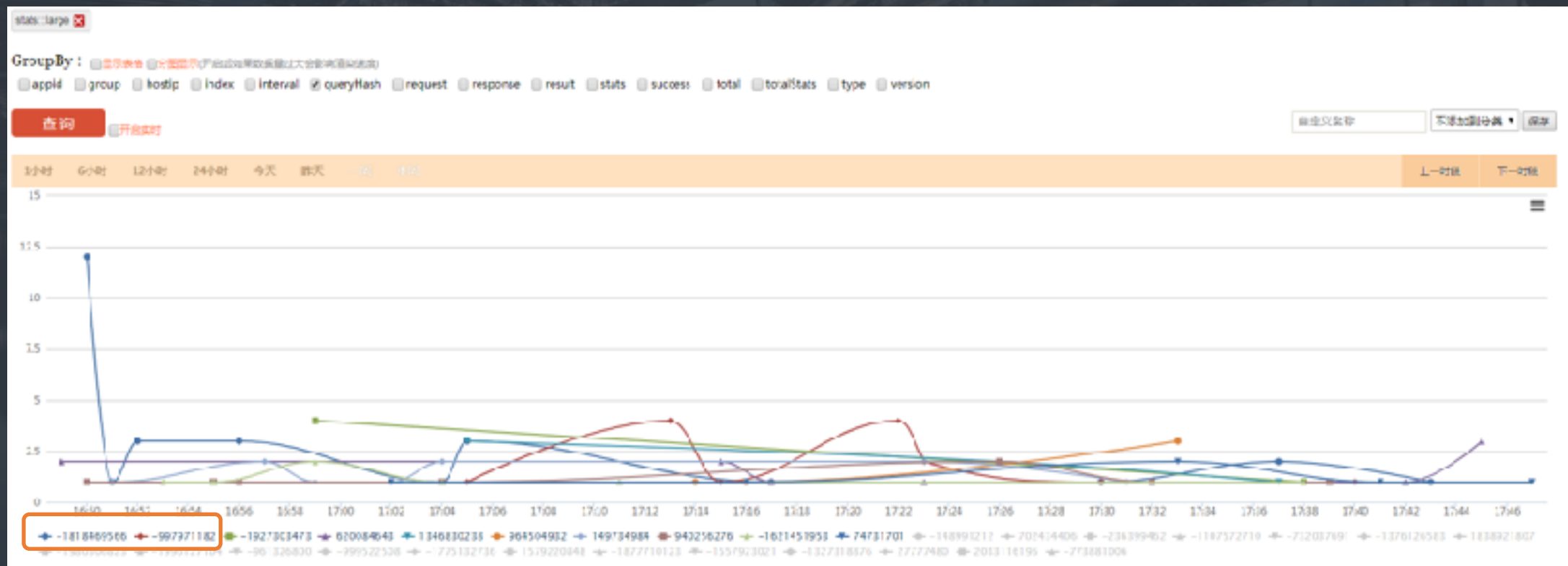


```
{query:{bool:{must[{match{title}}]{match{content}}]filter[{term{status}}{range{publish_date{}}}]}}}
```



Hash=-1927303473

Dashboard

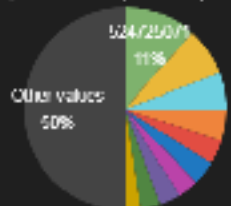


Metrics

QULRYIASI分布

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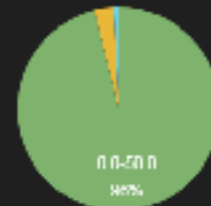
524,720/1 (214,241.7) 982,480/1 (182,518.1) 18,088,640/1 (14,518.1) 1,152,884/3 (12,580.6) -1112/18818 (88.818) 15,018,026/1 (81,22.1) -9,008,418 (11,780.1)
7,882,174 (11,02.1) -1,861,518 (2,05.4) 1,175,117/18 (11,17.8) Other values (12,405.5)



响应时间

🔍 📊 📈 📉 📊 📈

0-1,450.0 (2,805.415) 50.0-100.0 (7,710.13) 100.0-500.0 (10,025.1) 500.0-1000.0 (15,31.7)
1000.0-10,000.0 (2,756)





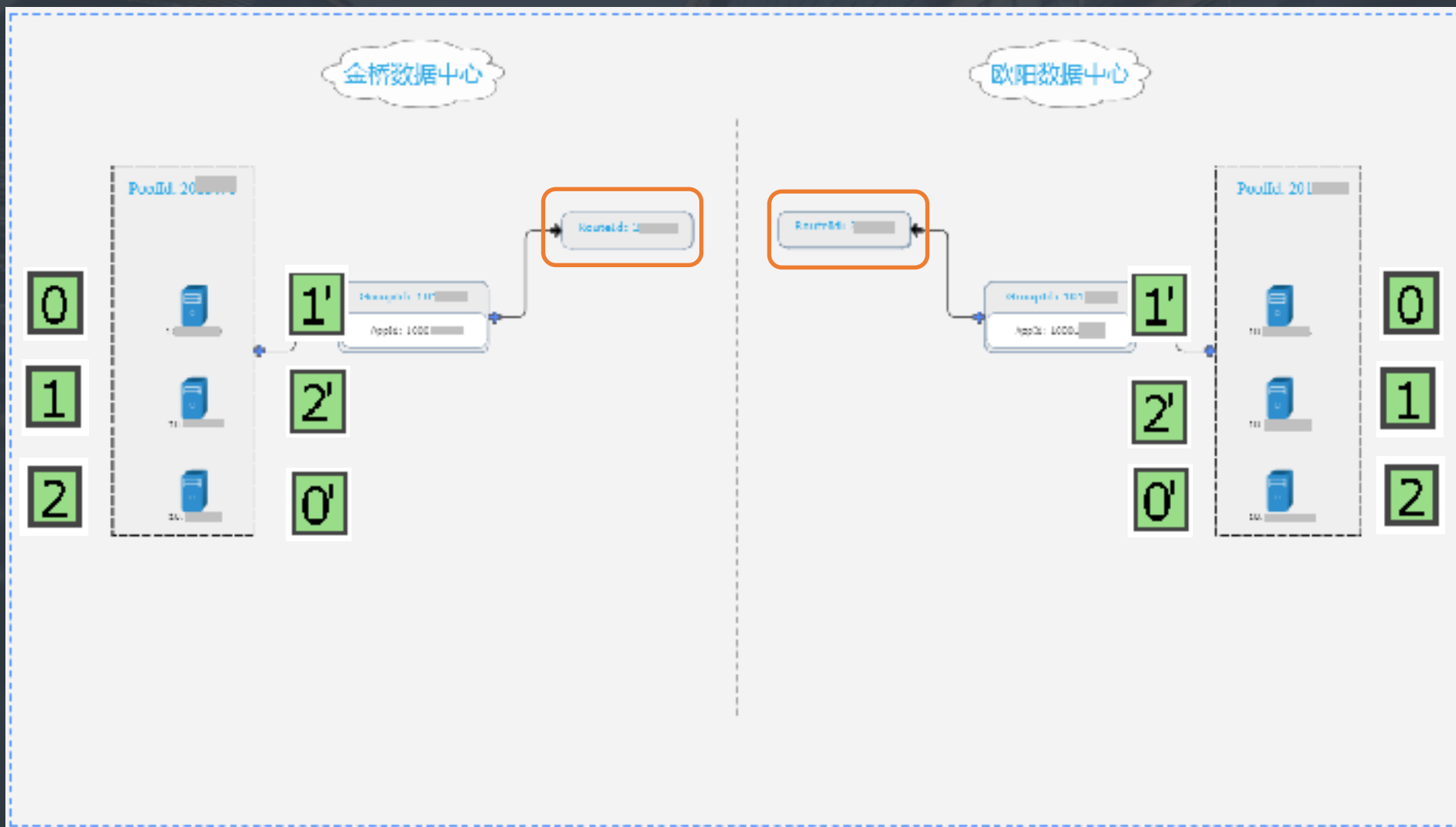
+ 简述

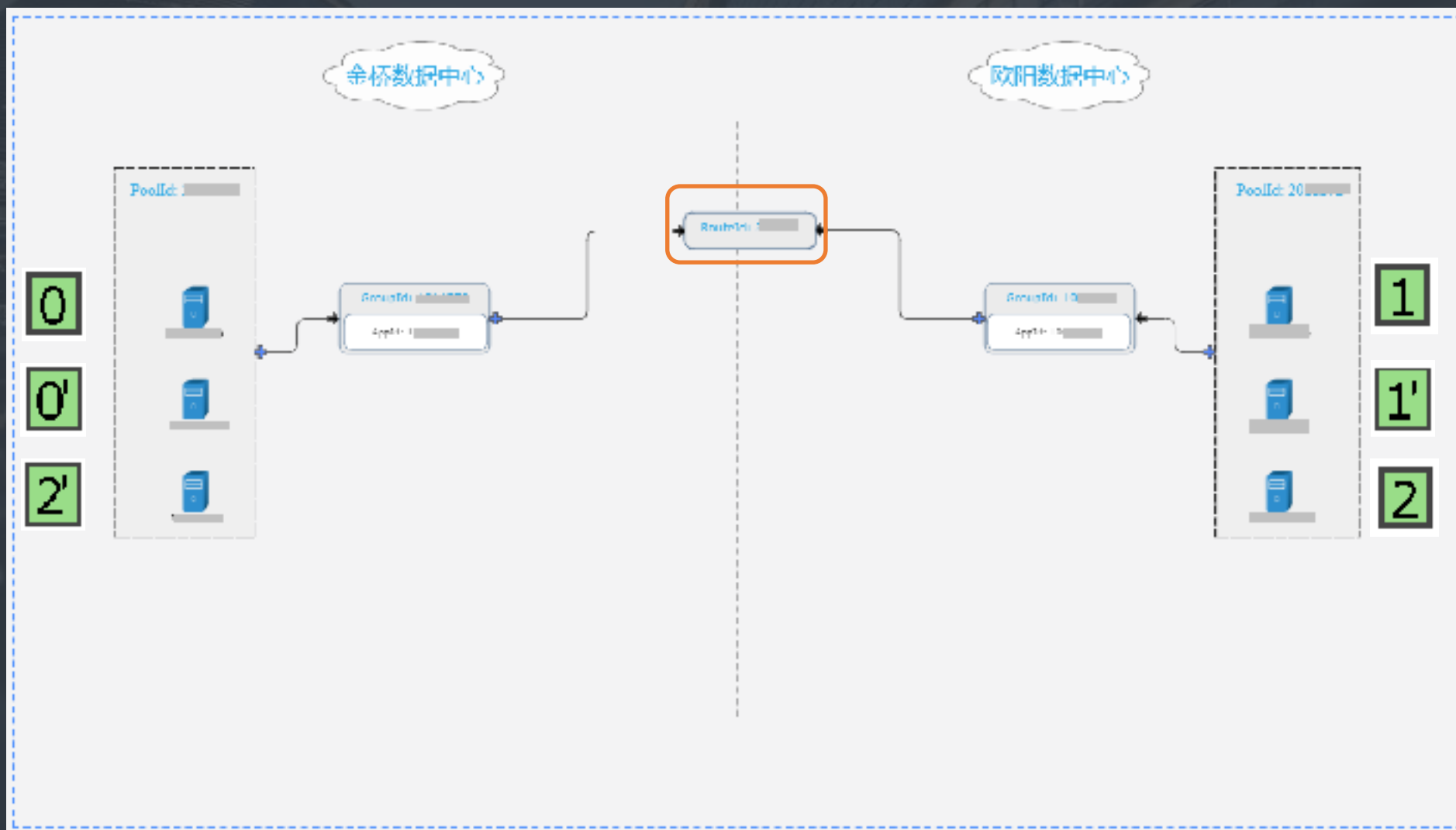
+ 功能

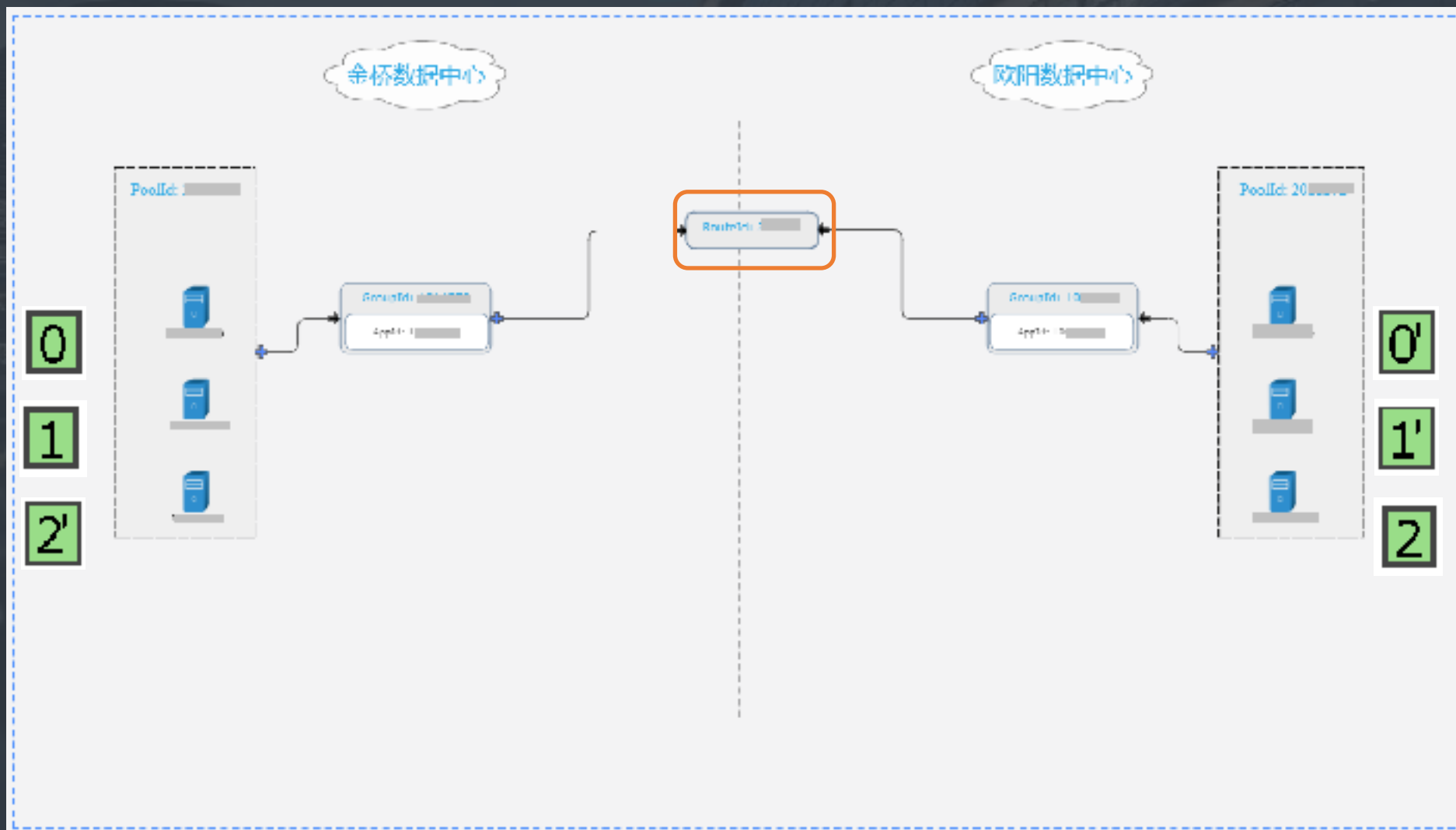
+ More

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Shard Allocation Awareness



+ 简述

+ 功能

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内 容

谢谢大家！

携程-丁子夜



专业、垂直、纯粹的 Elastic 开源技术交流社区
<https://elasticsearch.cn/>