上海 云数智聚 砥柱笃行

CHINA APACHE HADOOP MEETUP 2022

- ⑤ 2022年09月24日 9:00
- ♡上海古井假日酒店4楼





李孟 2022.10.22

Background

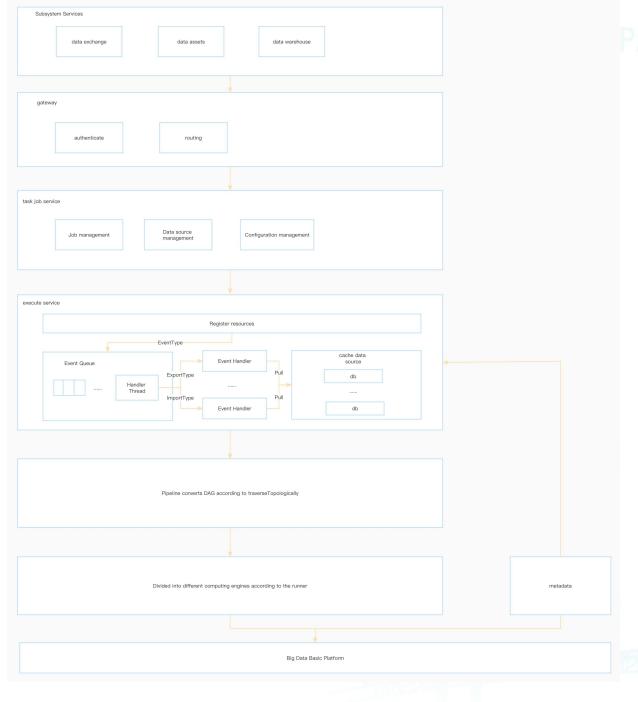
The basic composition of the original version of the big data platform framework:

Beam data processing and Hive Hook as metadata

Background

shortcoming

- external access single
- high development cost
- metadata access is complex



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Selection

Apache Livy
Apache Zeppelin
Netflix Geine
openLooKeng
Apache Linkis

Selection

Linkis builds a decoupling computing middleware layer with the ability to connect, expand, manage, orchestrate and reuse

- Computing Governance Services
- Public Enhancement Services
- Microservice Governance Service
- Complete component base
- Community

Scenario and Value

DataSphereStudio(DSS)

Linkis

Scriptis

DolphinScheduler

Exchangis

Streamis

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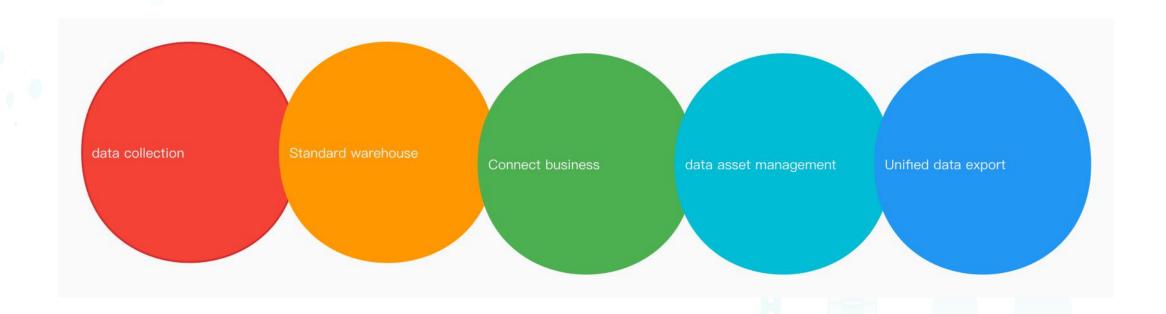
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Scenario and Value

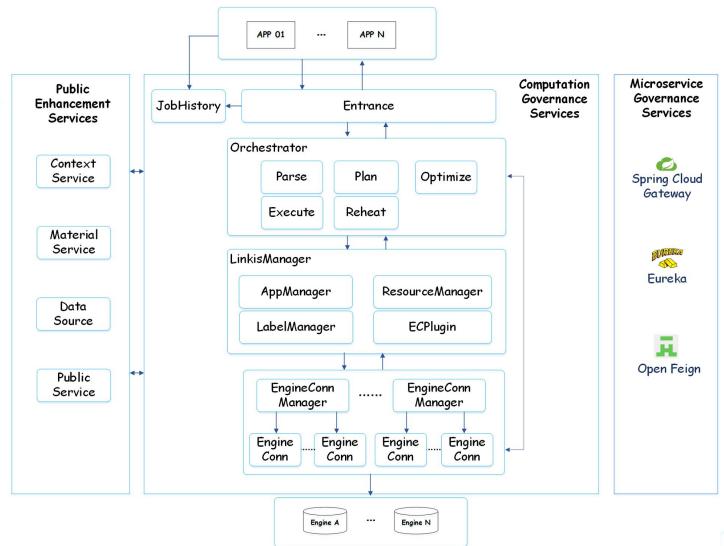
Provide the basis for data processing

- data assets
- data model
- data development
- data scheduling

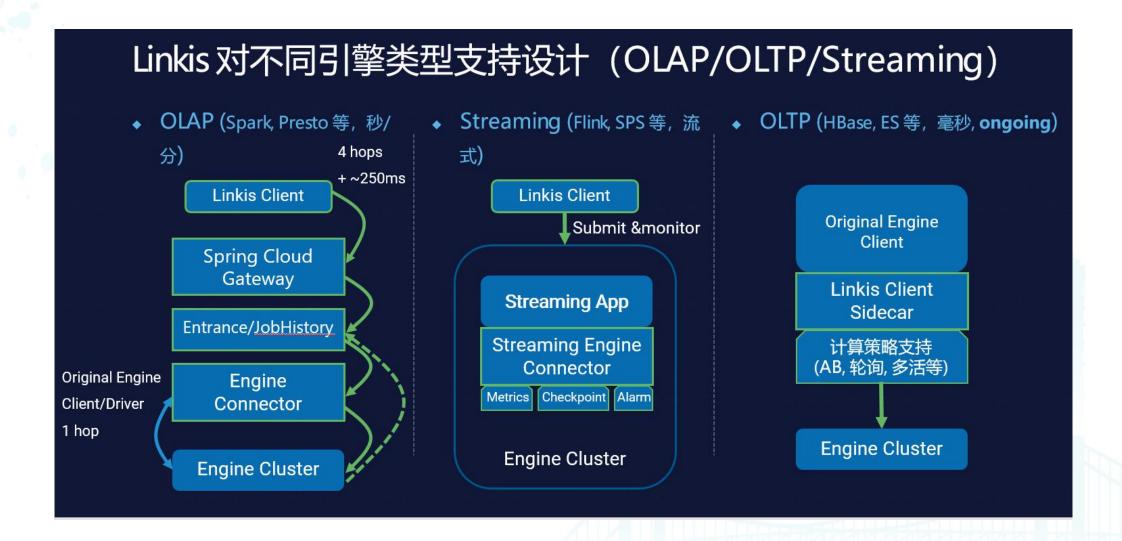
Scenario and Value



Architecture-Linkis



Architecture-Linkis



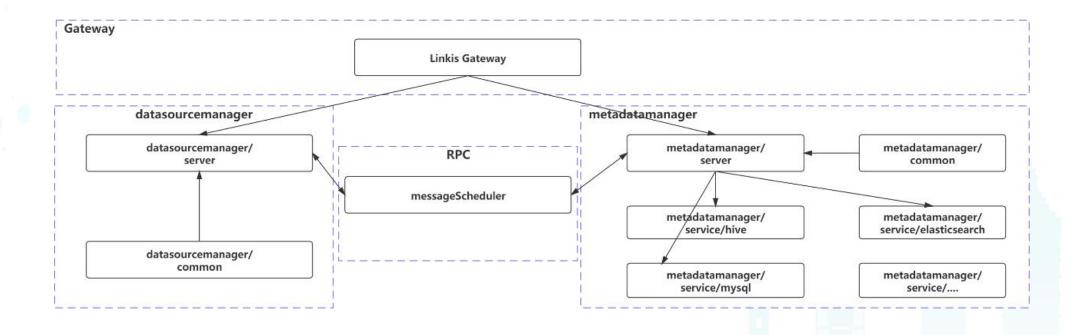
Architecture-DSS



Data Governance-DataSource

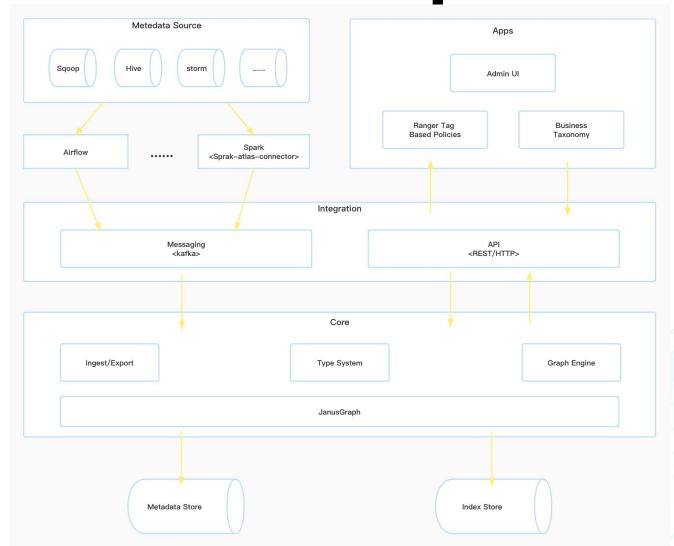
- Basic functions of a data source service provider
- The data source service provides some basic information about the data source environment
- Supports parameter dynamic lookup library table generation for multiple data source types
- Supports data sources to be divided according to user, creation source, and creation system
- Support for different data source connection tests
- A metadata query service that supports a certain data source

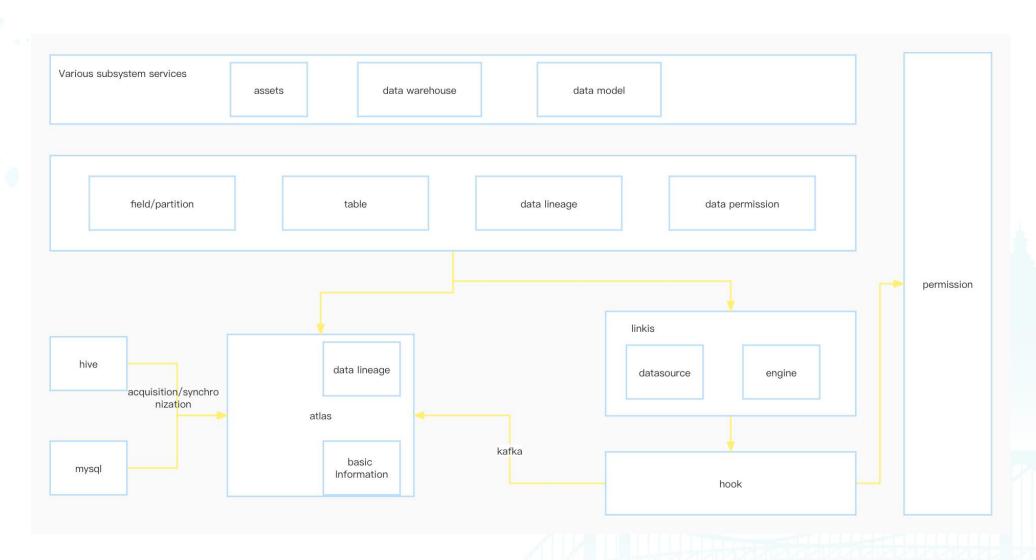
Data Governance-DataSource



Atlas is a data governance and metadata framework tightly coupled to the Hadoop ecosystem.

- type system
- graphics engine
- capture/export
- api
- messaging
- metadata sources
- atlas admin ui
- tag based policies





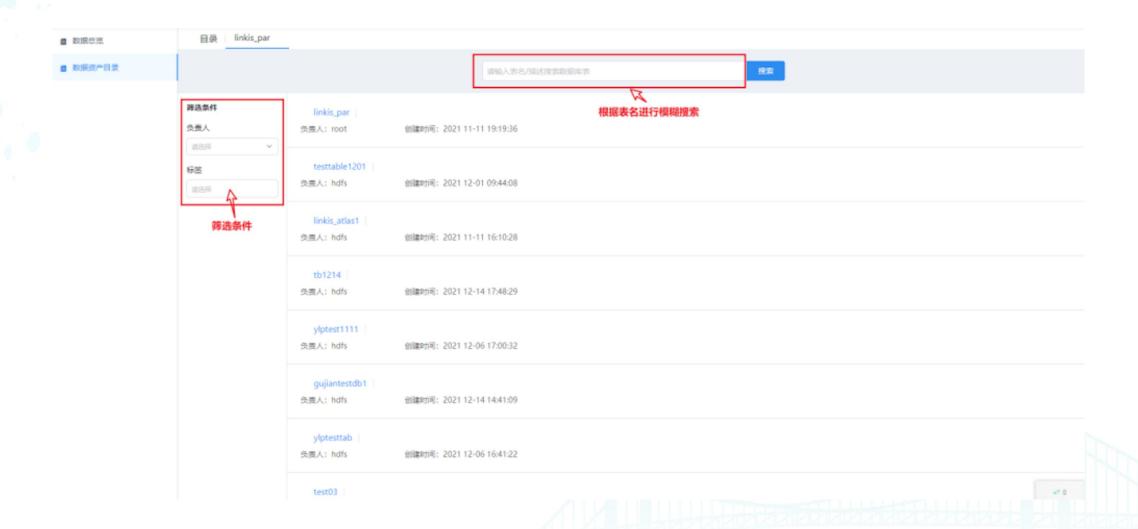
Data Governance-Assets

Data asset management to make data traceable, usable, and trusted

- asset overview
- asset catalog

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Data Governance-Assets

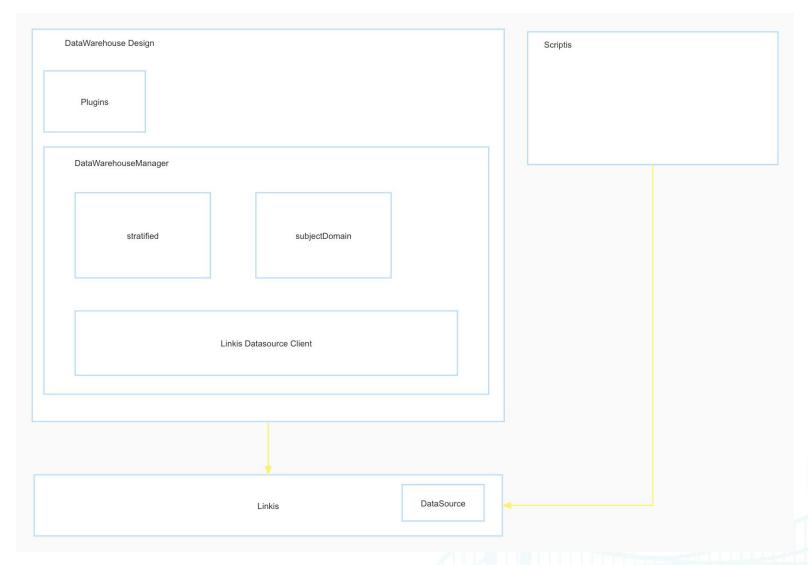


Data Governance-DataWarehouse

Data warehouse standard specification management.

- Subject Domain Management
- Data warehouse management
- Modifier management
- Statistical cycle management

Data Governance-DataWarehouse



Data Governance-DataModel

The content described by the data model has three parts, namely data operations, data constraints and data structures.

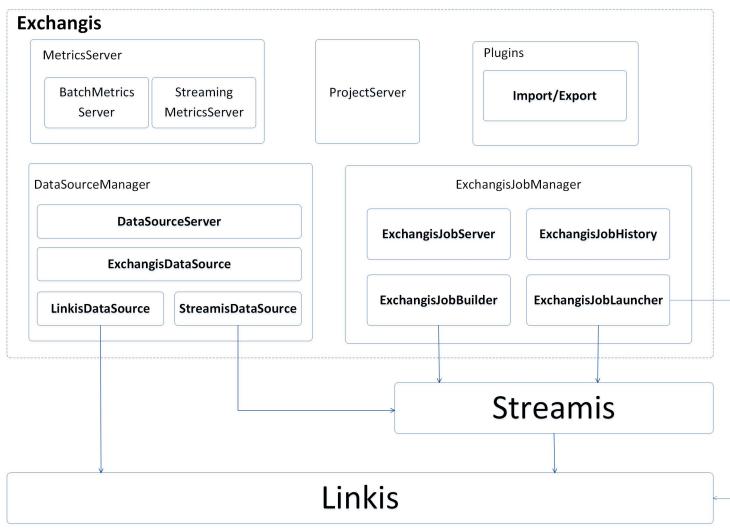
- table management
- dimension management
- metric management
- indicator management
- tag management

Data Processing-Exchangis

A data exchange tool that supports the synchronization of structured and unstructured data transfers between heterogeneous data sources.

- Lightweight data source management
- High stability, fast response data synchronization task execution
- Open up with DSS workflow, one-stop big data development portal

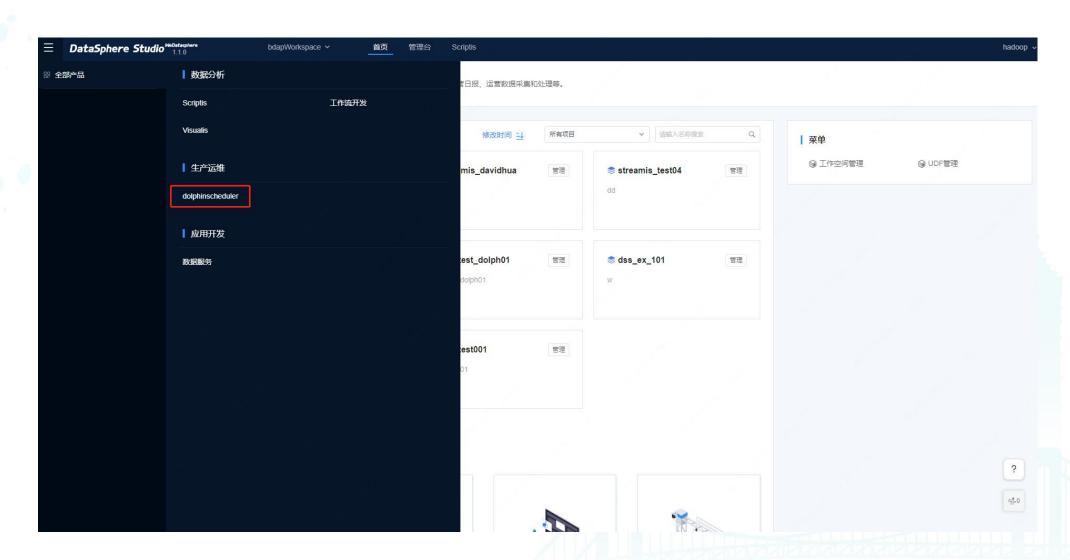
Data Processing-Exchangis

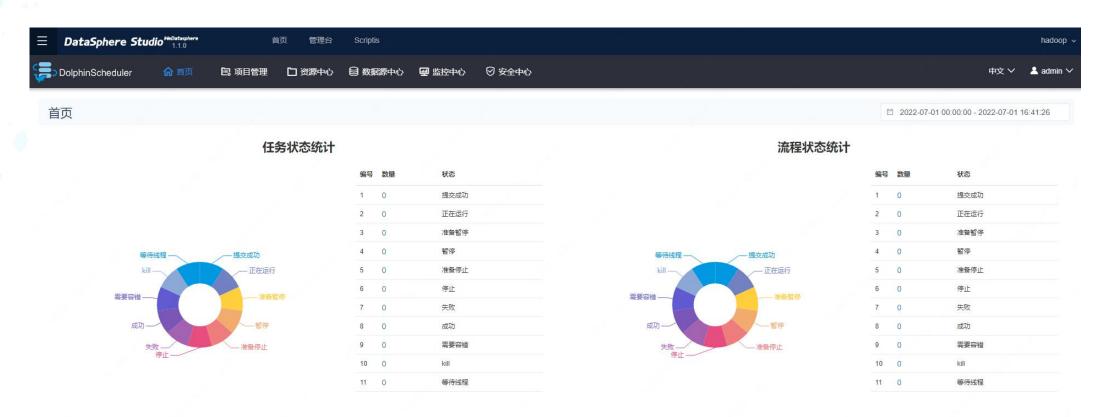


Apache DolphinScheduler is a distributed and easily extensible visual DAG workflow task scheduling open source system.

- AppConn is the core concept of DSS that can easily and quickly integrate various upper-layer web systems.
- Dolphinscheduler can publish integration components to the scheduler with DSS publishing function

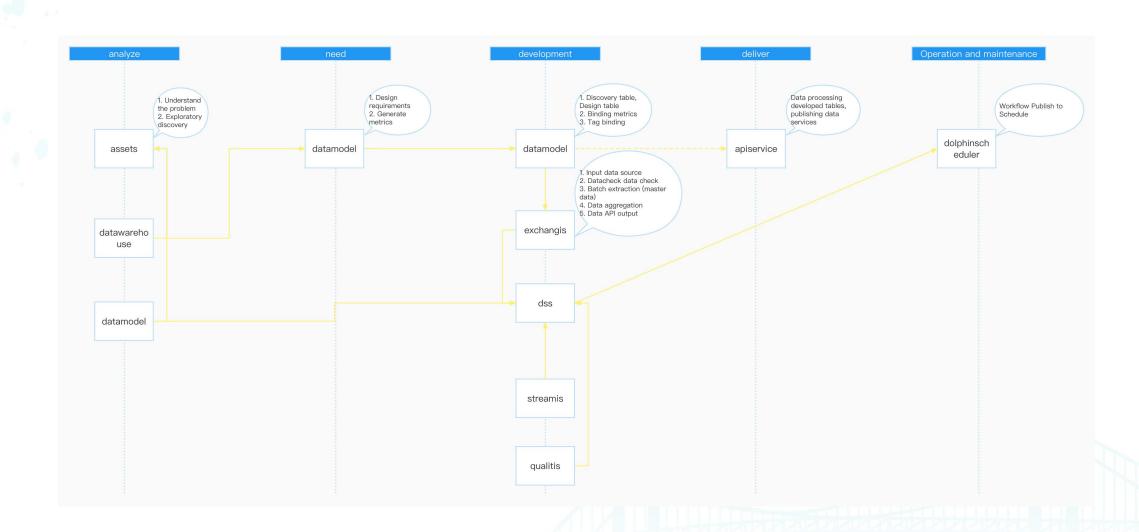
DolphinScheduler can normally schedule the workflow node jobs of DataSphere Studio. You also need to install the dss-dolphinscheduler-client plugin, which is used to execute DSS workflow node jobs.





流程定义统计

Data Link



Future Outlook

- Improvement of data integration capabilities
- Data governance related service release
- WeDataSphere community-related components continue to improve and strive for Apache

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Open Source

All the components shared this time have been open sourced in the community. I look forward to more friends to join and communicate with each other so that better products can be iterated. I always believe that the open source community is the soul of the product, and it is connected with its pulse to make Products have better development.

Over the years, I have met many friends in the WeDataSphere community, learned a lot, and gave back the results to the community. I will continue to work hard and continue to walk with you.

