

DTCC

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第十二届中国数据库技术大会

DATABASE TECHNOLOGY CONFERENCE CHINA 2021

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Apache ShardingSphere 在Database Plus 的蓝海探索

Apache ShardingSphere & SphereEx Founder 张亮









数据库发展趋势

DTCC 2021 第十二届中国数据库技术大会 DATABASE TECHNOLOGY CONFERENCE CHINA 2021

- 单机 -> 分布式
 - RDBMS
 - NoSQL
 - NewSQL
- 单一化 -> 多样化
 - One Size Fits All
 - One Size Fits None
 - One Size Fits a Bunch









数据库碎片化

- 异构数据库的痛点
 - 数据库访问协议、SQL 方言、存储接口和结构均不同
 - 数据库间无协作能力
 - 难于处理多元数据库的共性需求
- 痛点的解决方案
 - 统一的数据库协议网关和灵活的 SQL 方言转换器
 - 着眼于数据库上层,着力于数据库间协作
 - 提供增量的生态池, 以处理共性需求







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Apache ShardingSphere Overview

- 官网: https://shardingsphere.apache.org/
- GitHub: https://github.com/apache/shardingsphere
- GitHub Stars: 14k+
- 贡献者数量: 280+
- 模块数量: 190+
- 采用公司: 170+





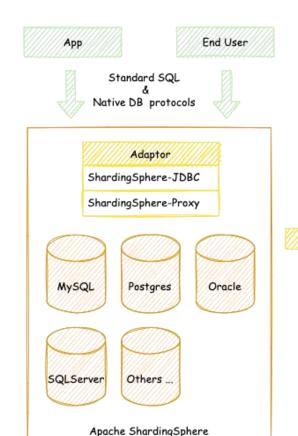






Database Plus

Build criterion and ecosystem above multi-model databases



Link

DistSQL

Link databases and services, focus on cooperation with multi-models among databases

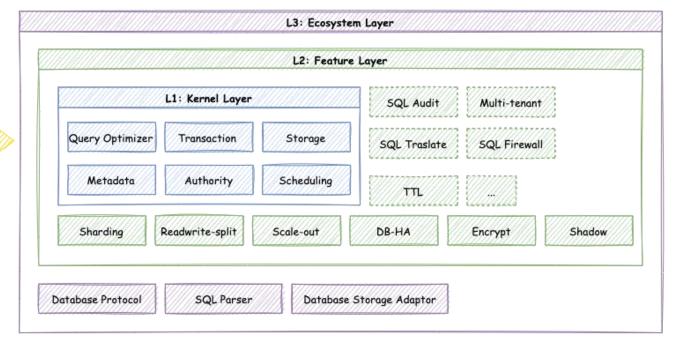
Enhance

Capture database access entry to provide additional features transparently

Pluggable

Micro kernel for pluggable oriented, everything is pluggable with 3 layers



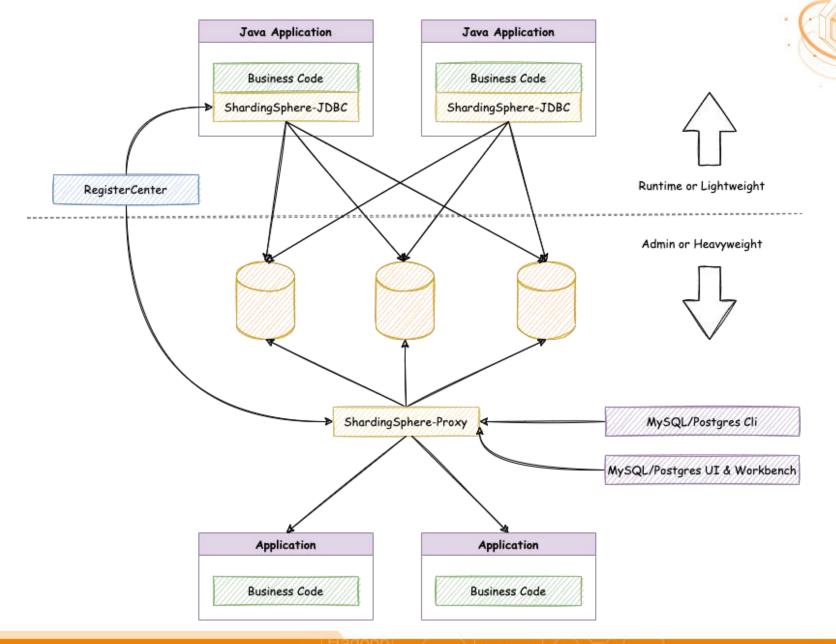












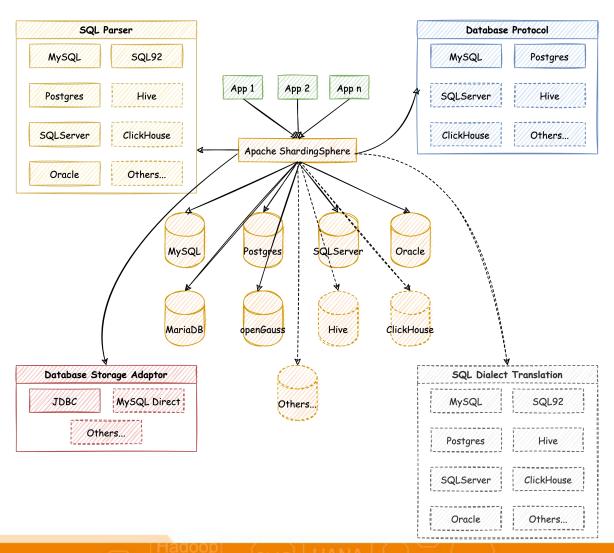




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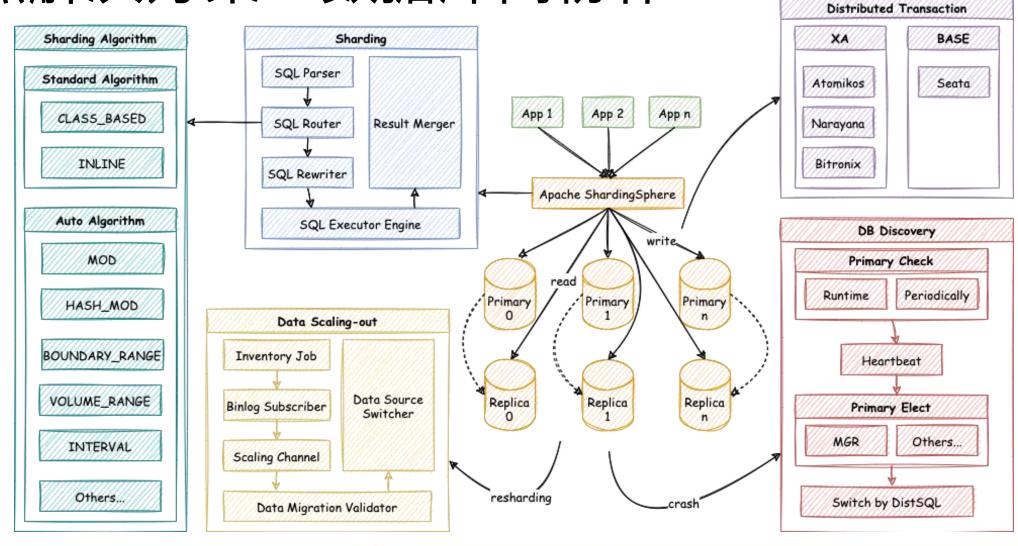
痛点解决方案:数据库网关







痛点解决方案:数据库间协作

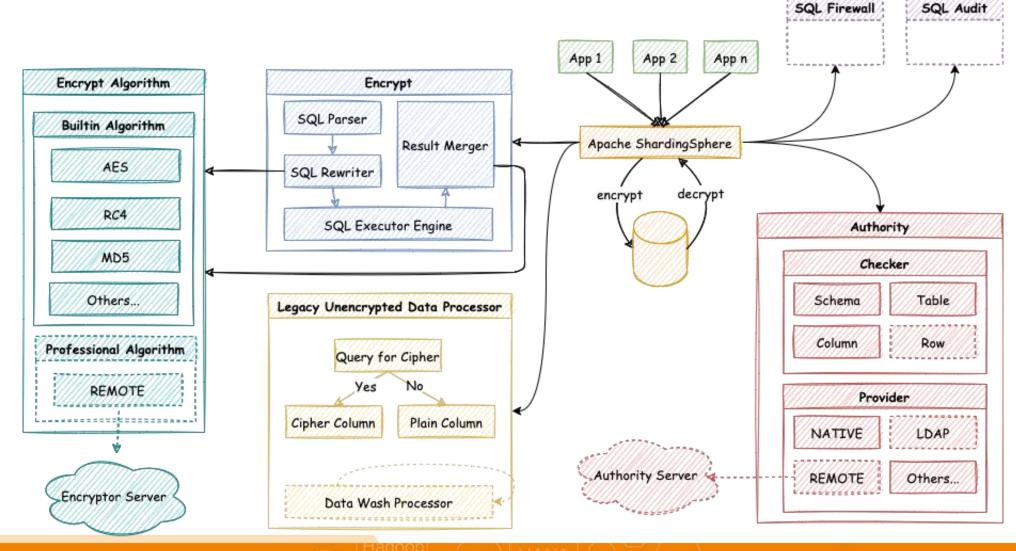






痛点解决方案:增量生态池(安全)

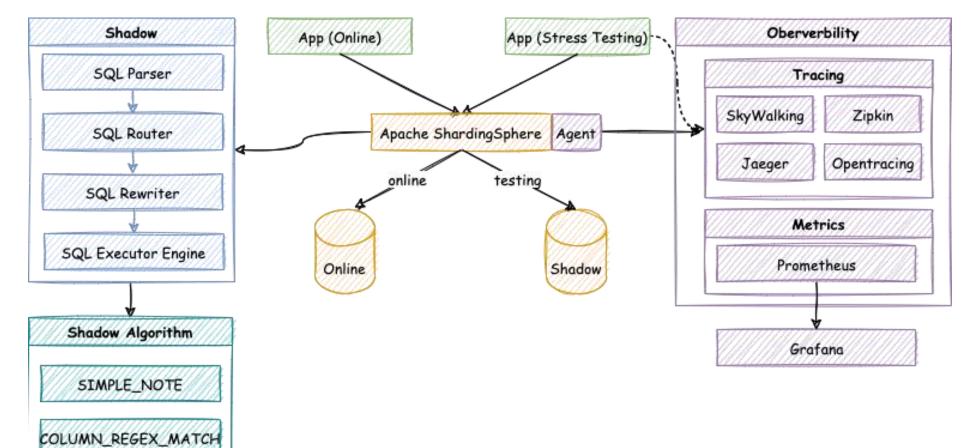






痛点解决方案:增量生态池(压测)







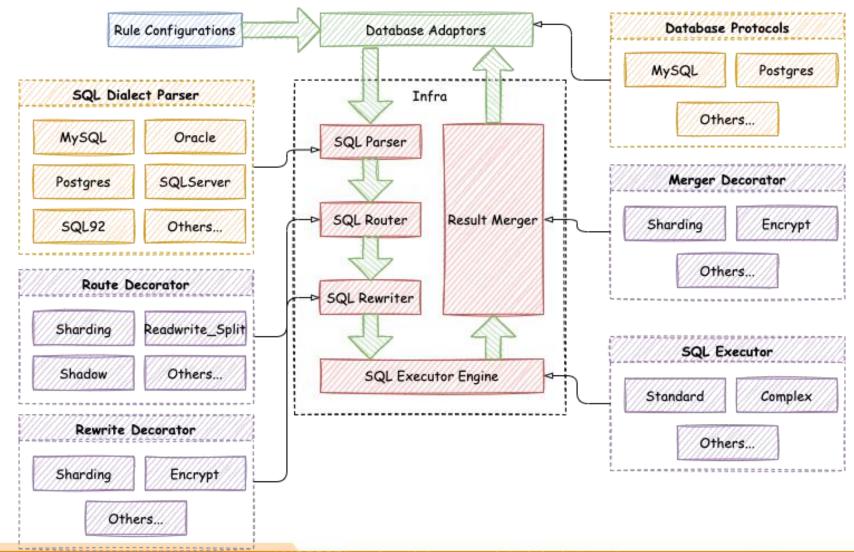




Others ...

可插拔内核





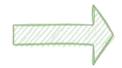


Roadmap













4.x 2019

Sharding-JDBC

Initial version, base on JDBC driver and for sharding only

Orchestration

Can coordinate in distributed environment with ZooKeeper as registry center

Sharding-Proxy

Use proxy to mock database which can adapt all programing languages and database workbenchs

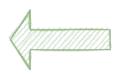
Apache ShardingSphere

For Apache software foundation version, change the brand, and support more databases except MySQL



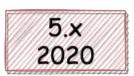












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To be continue...

To Ecosystem

Provide Database Plus production, build standard via DistSQL, and build ecosystem with pluggable platform and features

To Developers

Simplify the SPI and involve more and more developers to contribute features and database dialects openly

To Pluggable

Micro kernel for pluggable oriented, everything is pluggable with 3 layers, add more features except sharding, such as encrypt, shadow etc







开源 VS 商业



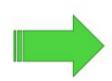


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- 面向扩展的松耦合框架
- 积极吸纳具有实验性质的各种激进方案的开放社区



- 解决用户痛点
- 提供千锤百炼的高质量产品
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