Apache ShardingSphere document

Apache ShardingSphere

May 11, 2022

Contents

Stargazers Over Time

Contributors Over Time

Apache ShardingSphere is positioned as a Database Plus, and aims at building a standard layer and ecosystem above heterogeneous databases. It focuses on how to reuse existing databases and their respective upper layer, rather than creating a new database. The goal is to minimize or eliminate the challenges caused by underlying databases fragmentation.

The concepts at the core of the project are Connect, Enhance and Pluggable.

- `Connect:` Flexible adaptation of database protocol, SQL dialect and database storage. It can quickly connect applications and heterogeneous databases quickly.

- `Enhance:` Capture database access entry to provide additional features transparently, such as: redirect (sharding, readwrite-splitting and shadow), transform (data encrypt and mask), authentication (security, audit and authority), governance (circuit breaker and access limitation and analyze, QoS and observability).

- `Pluggable:` Leveraging the micro kernel and 3 layers pluggable mode, features and database ecosystem can be embedded flexibily. Developers can customize their ShardingSphere just like building with LEGO blocks.

ShardingSphere became an Apache Top-Level Project on April 16, 2020.

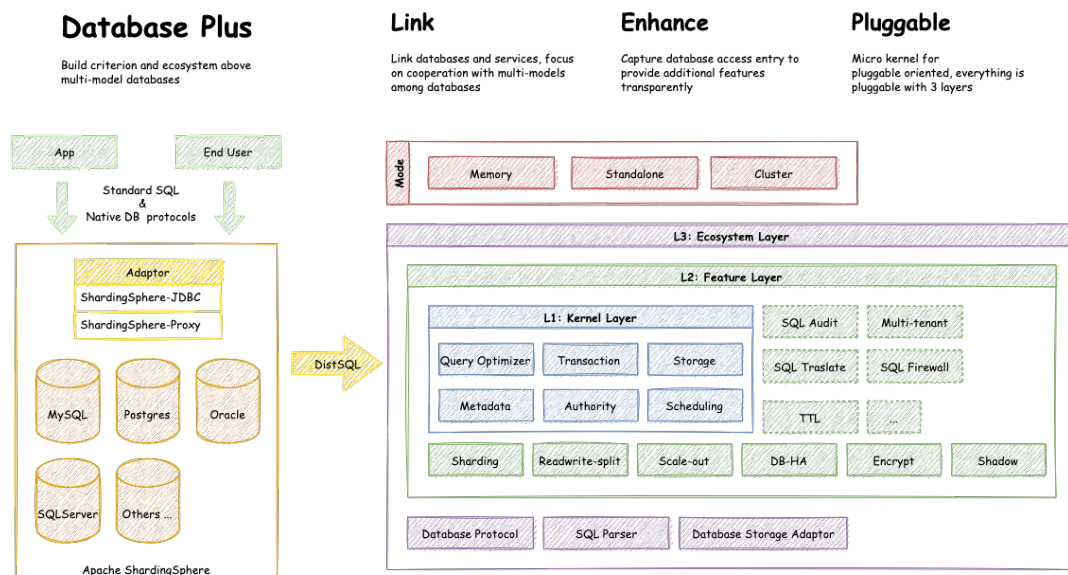Welcome to interact with community via the official mail list and the ShardingSphere Slack.

Figure1: Overview