Vitess: Sharded MySQL on Kubernetes

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What is Vitess

- Sharding middleware for MySQL
- Massively scalable
- HA
- Cloud-native

Vitess stats

Started 2010

8,000+ stars

16,000 + commits

Marquee adopters

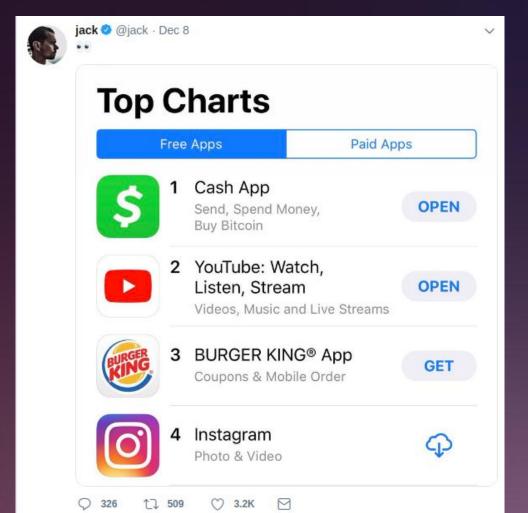
100+ contributors

900+ Slack members

1000+ forks

Key adopters

- # slack 30% Migrated to Vitess
- Square Cash App fully runs on Vitess
- Pinterest All of advertising campaign management





The Community





























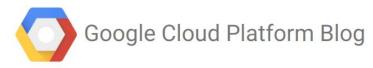




Vitess on Kubernetes



2015

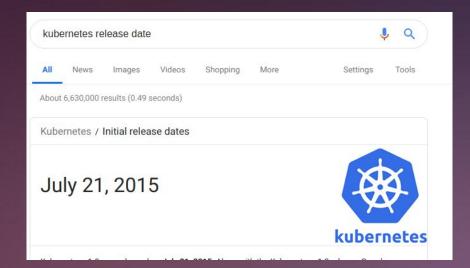


Product updates, customer stories, and tips and tricks on Google Cloud Platform

Scaling MySQL in the cloud with Vitess and Kubernetes

Friday, March 20, 2015

Your new website is growing exponentially. After a few rounds of high fives, you start scaling to meet this unexpected demand. While you can always add more front-end



Production Workloads



Oldest, since 2016



Hundreds of keyspaces



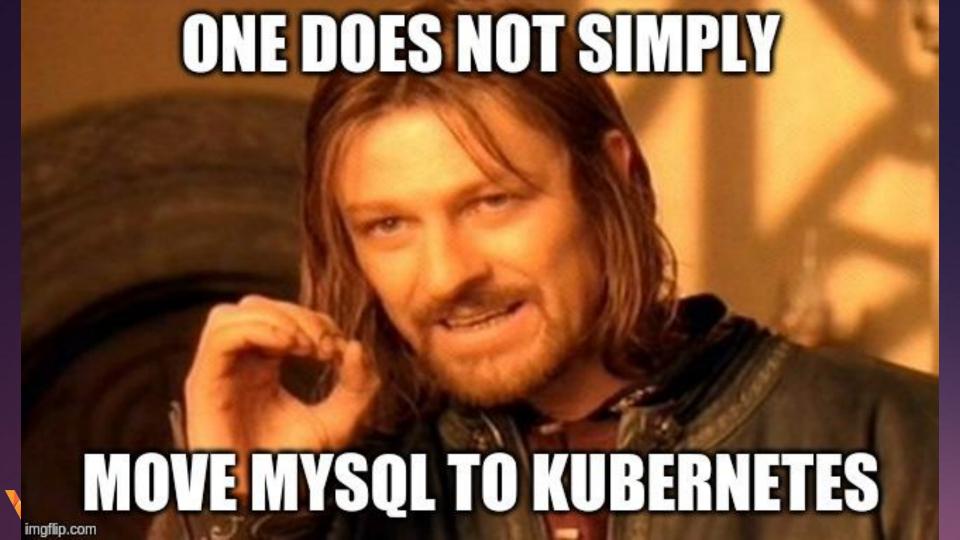
10,000+ Tablets

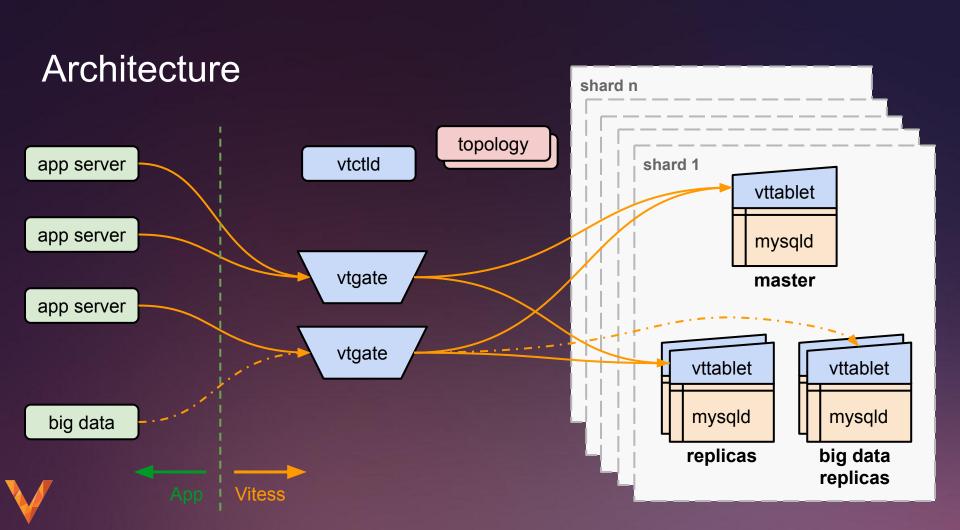


Migrate from cloud to cloud MySQL 8.0

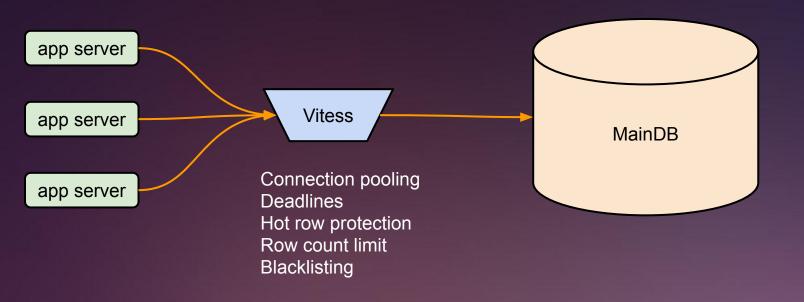




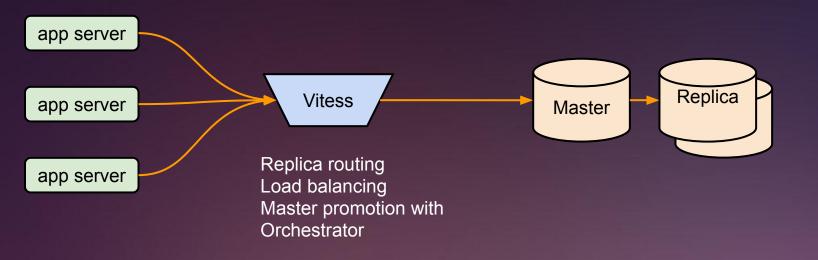




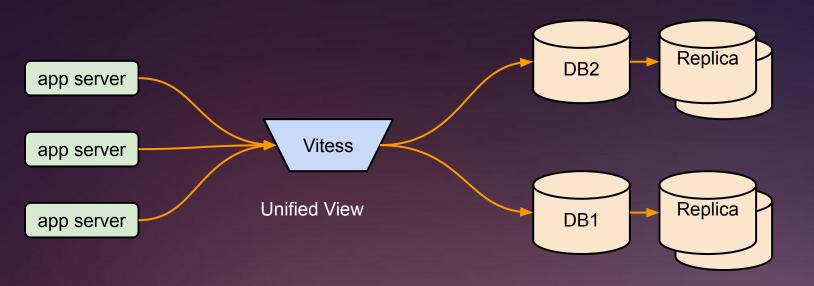
Starting with Vitess

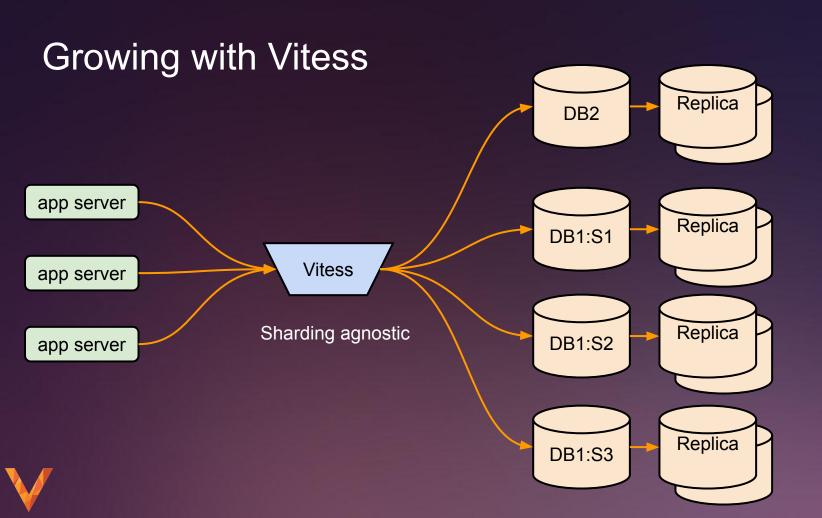


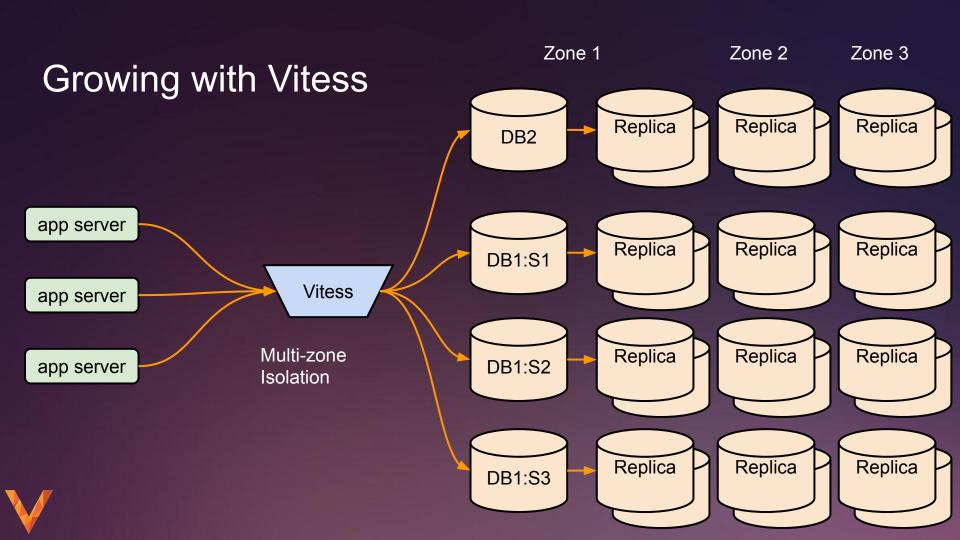
Growing with Vitess



Growing with Vitess





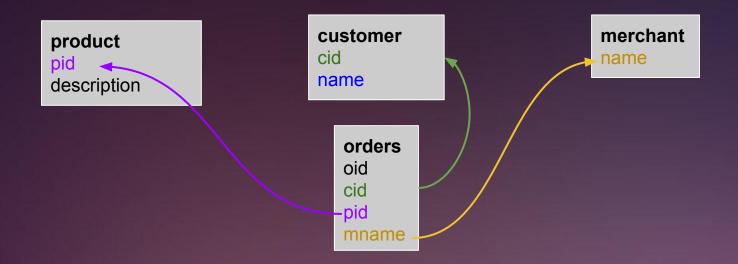


Demo



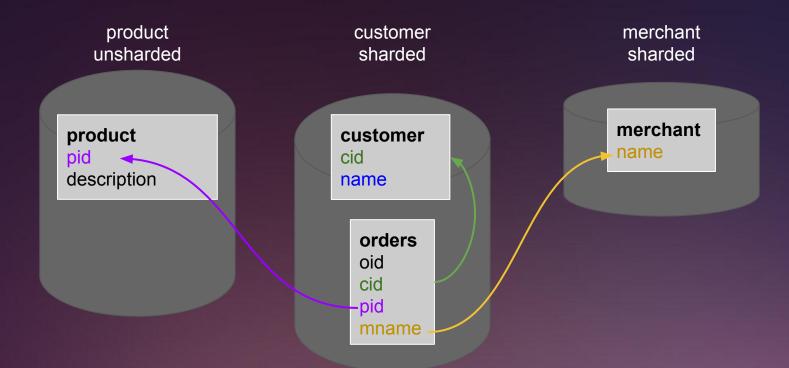


Marketplace schema





Sharded

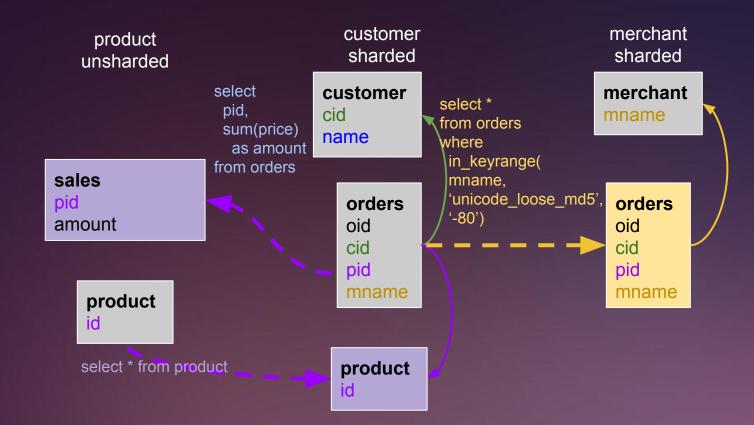




DO try these at home



VReplication



Use cases

- Materialized Views
- Real-time Rollups
- Resharding
- Backfilling of lookup vindexes
- Schema deployment
- Data migration
- Change notification

What's next?

- Sign into <u>slack</u> channel at <u>vitess.io</u>
- Try bringing up a cluster on your laptop or kubernetes
- https://vitess.io/docs/tutorials/
- https://github.com/vitessio/vitess
- Square Cash blog posts on sharding with Vitess
- a @sougou
- witessio @planetscaledata @ssougou

