

# Vitess

To be the most performant, scalable, and available  
MySQL storage system in the Cloud

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# Transactional data explosion

- Not just YouTubes
- Single instance is too small
- Seeking Non-MySQL alternatives



# The Cloud is here

- Container Instances
  - Short-lived containers
  - Tolerate neighbors
  - Discoverability
- Kubernetes
  - No good tools yet



# Non-ideal Options

- Application sharding
- NoSQL
- Paid solutions
- NewSQL
  - Cockroach
  - TiDB
  - Yugabyte



# Vitess

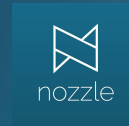
- Leverage MySQL
- At massive scale
- Open Source
- 8 years of work
- Multiple Prod examples beyond YouTube

**WHY NOT BOTH?**



# The Community

In production



Quiz of Kings

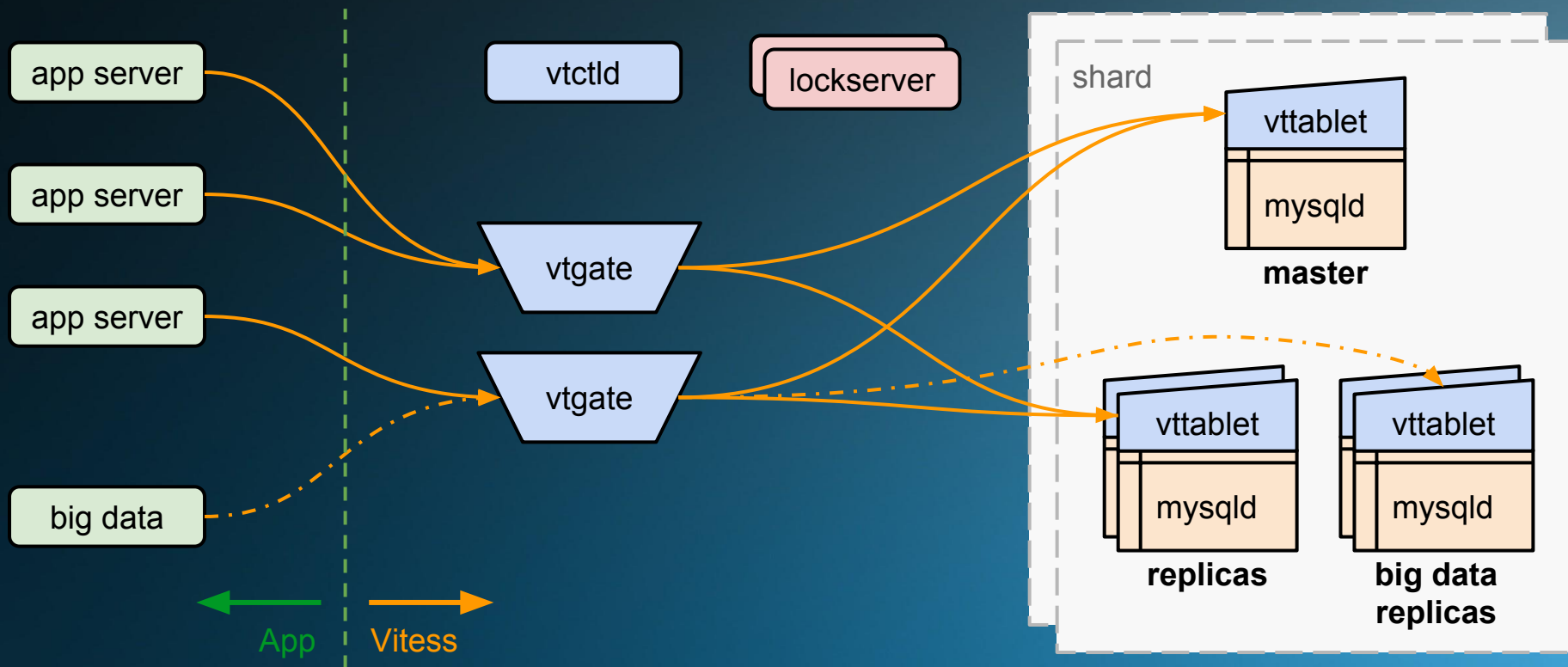
Evaluating



# Features

- Happier MySQL
- Cloud and Cluster Management
- Indefinitely scalable

# Architecture





# Pluggable Architecture

- Monitoring
- Health check
- ACLs
- Tracing
- And more...
- Pluggability does not affect efficiency



# High coding standards

- Readability is king
- Go coding standards are enforced
- Unit tests with strict coverage requirements
- End-to-end tests
- Performance
- Travis, CodeClimate & Netlify



# Joining CNCF

- Announcing on Feb 5
- One year of due diligence
  - Nothing to compare with
  - Maturity
  - Contributors



# Roadmap (aka we need help)

- Full cross-shard queries
- Migration tools
- Simplify configurability
- Documentation



# Conclusion

- Assume MySQL can scale
- Or run in Cloud
- Help build ViteSS!

