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

- YouTube
- JD.COM
- HubSpot
- Square
- slack
- stitchlabs
- Flipkart
- BetterCloud
- Quiz of Kings
- Pixelfederation

Evaluating

- GitHub
- AXON
- AppLift
- Lazada
Features

- Happier MySQL
- Cloud and Cluster Management
- Indefinitely scalable
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!