

Vitess

Sharded MySQL on Kubernetes

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@VITESSIO

What is **Vitess**?

**Sharded
MySQL**

**Massively
Scalable**

HA

**Cloud-
Native**




Vitess Stats

Started
2010

Marquee
Adopters


100+
Contributors


8,000
+
Stars

16,000

+
Commits

1000+
Slack
Members

1000
+
Forks 



Key Adopters



40%
Migrated to
Vitess



Cash App
fully runs
on Vitess



Powers all
advertising
campaign
managemen
t

Key Adopters



Viteess
on
Kubernetes

2015



VITESS.IO



Google Cloud Platform Blog

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

A screenshot of a Google search interface. The search bar contains the text 'kubernetes release date'. Below the search bar, there are tabs for 'All', 'News', 'Images', 'Videos', 'Shopping', 'More', 'Settings', and 'Tools'. The search results show 'About 6,630,000 results (0.49 seconds)'. The first result is titled 'Kubernetes / Initial release dates' and displays the date 'July 21, 2015' next to the Kubernetes logo, which is a blue ship's wheel on a blue hexagon. The word 'kubernetes' is written in blue below the logo.

Production Workloads



Oldest,
since
2016



Hundreds of
keyspaces



10,000+
Tablets



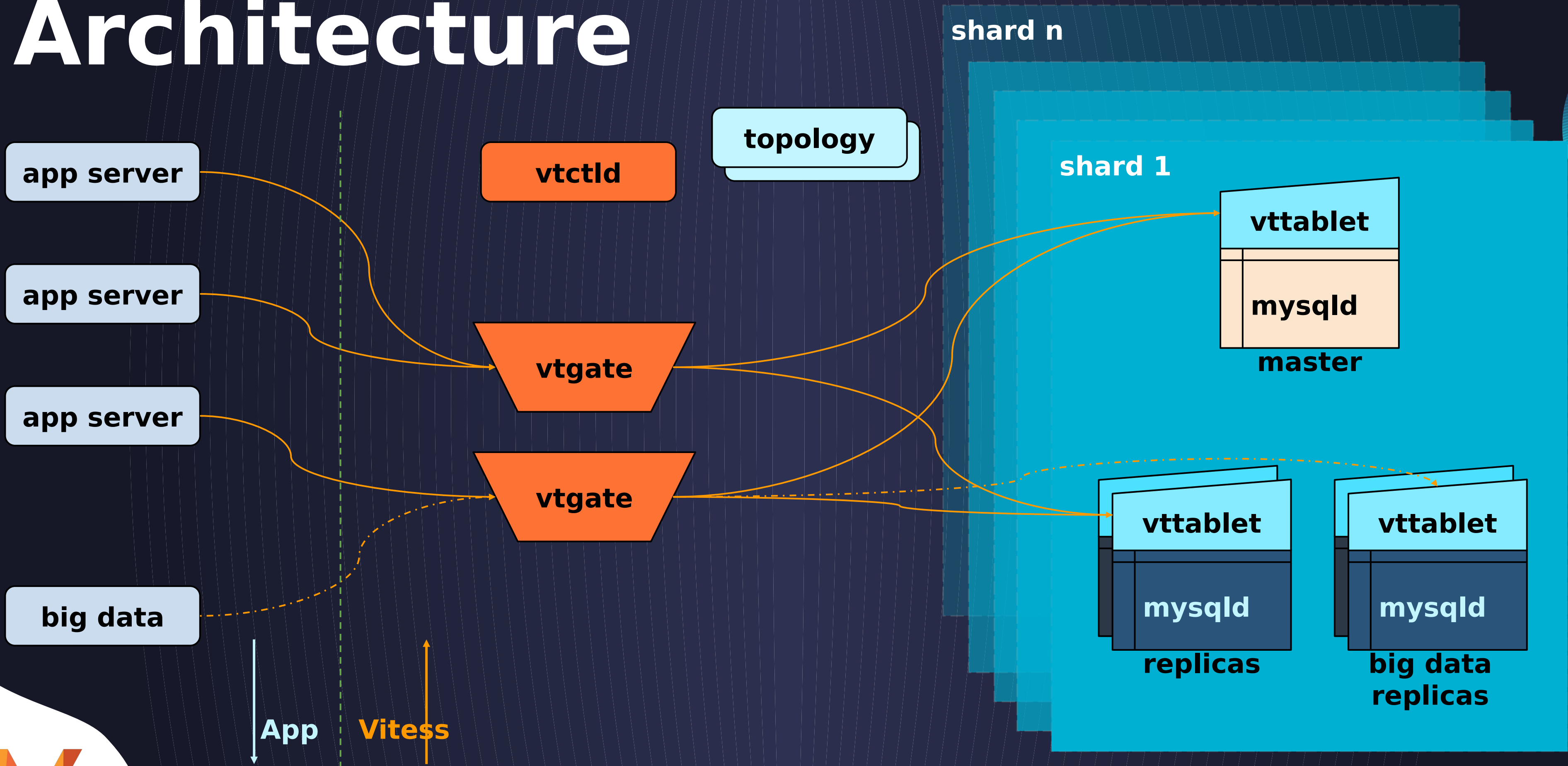
Migrate from cloud to
cloud
MySQL 8.0



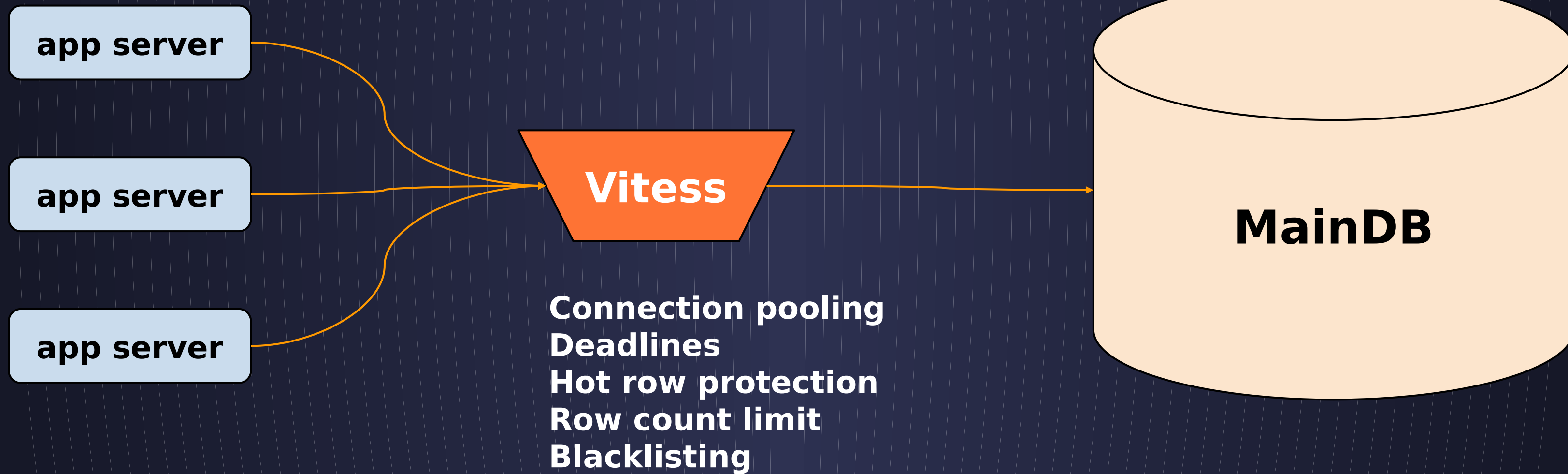


One does not
simply...
move MySQL to
Kubernetes....

Architecture



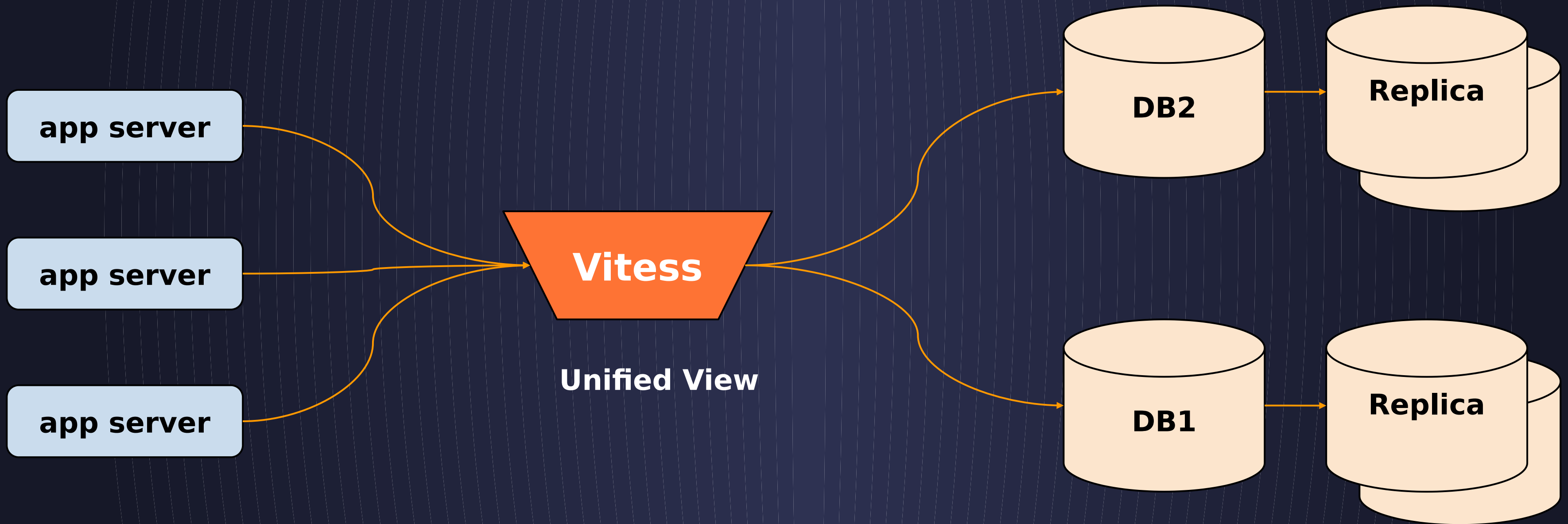
Starting with Vitess



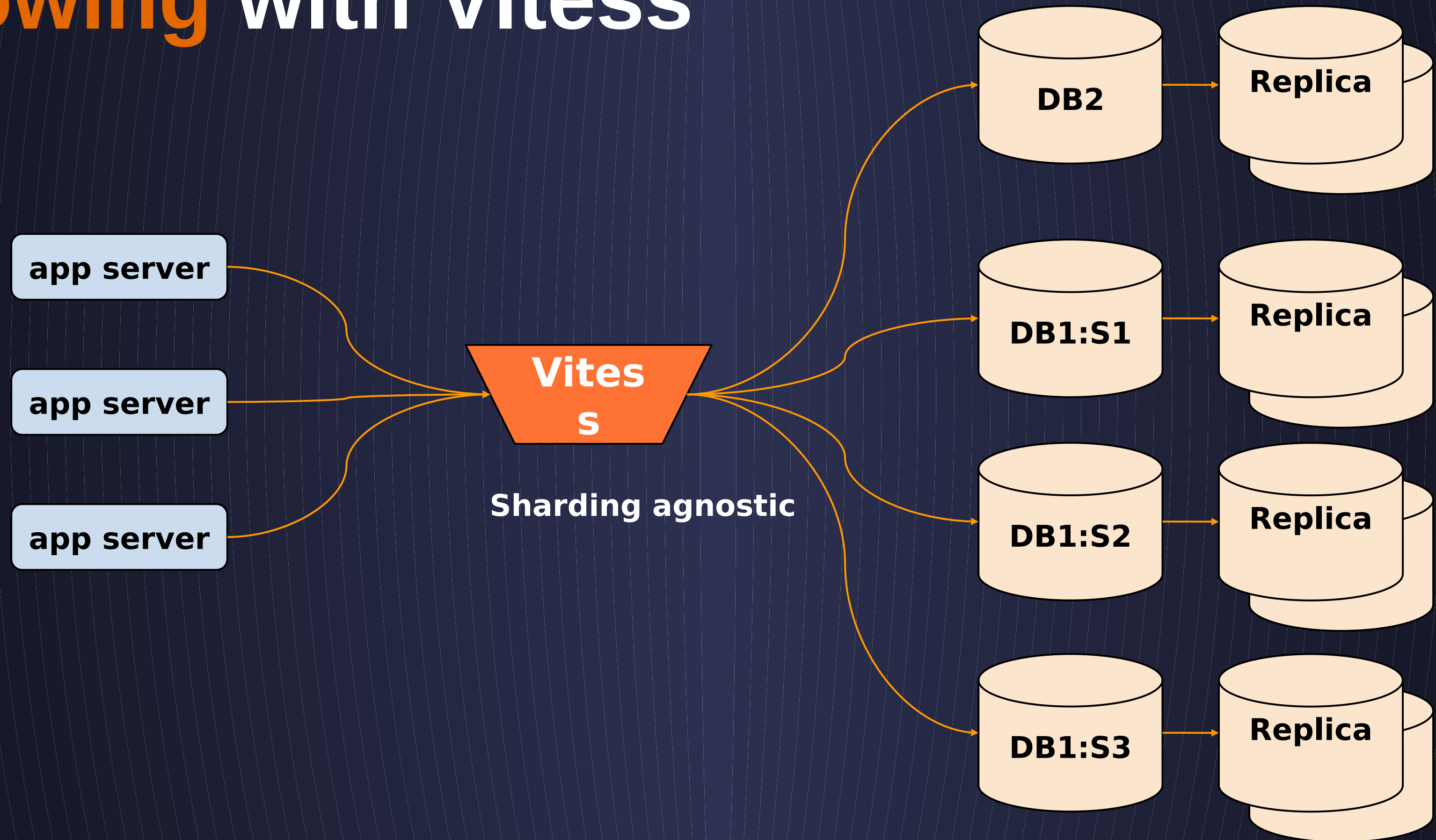
Growing with Vitess



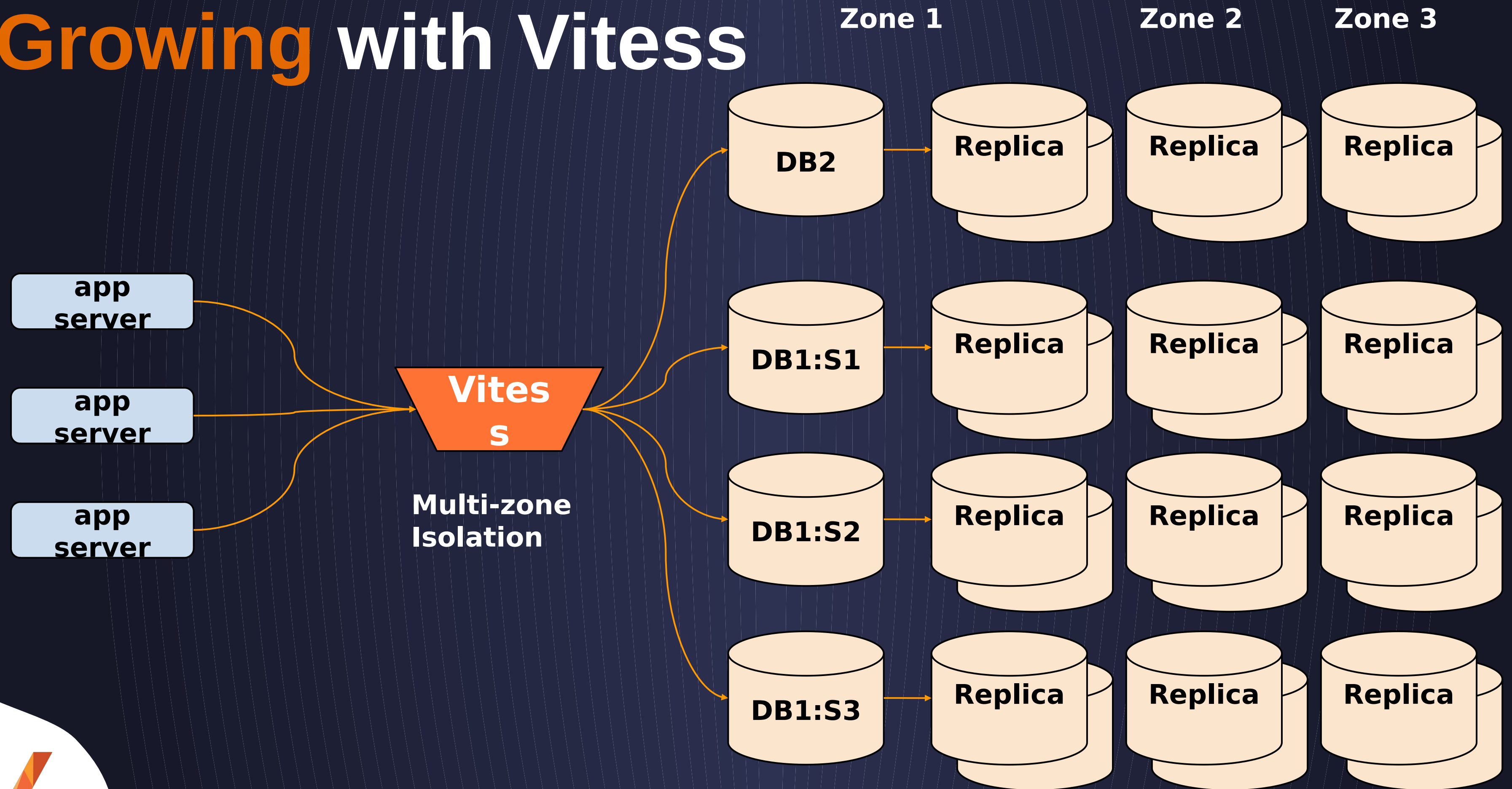
Growing with Vitess



Growing with Vitess



Growing with Vitess



Run Vitess on Kubernetes

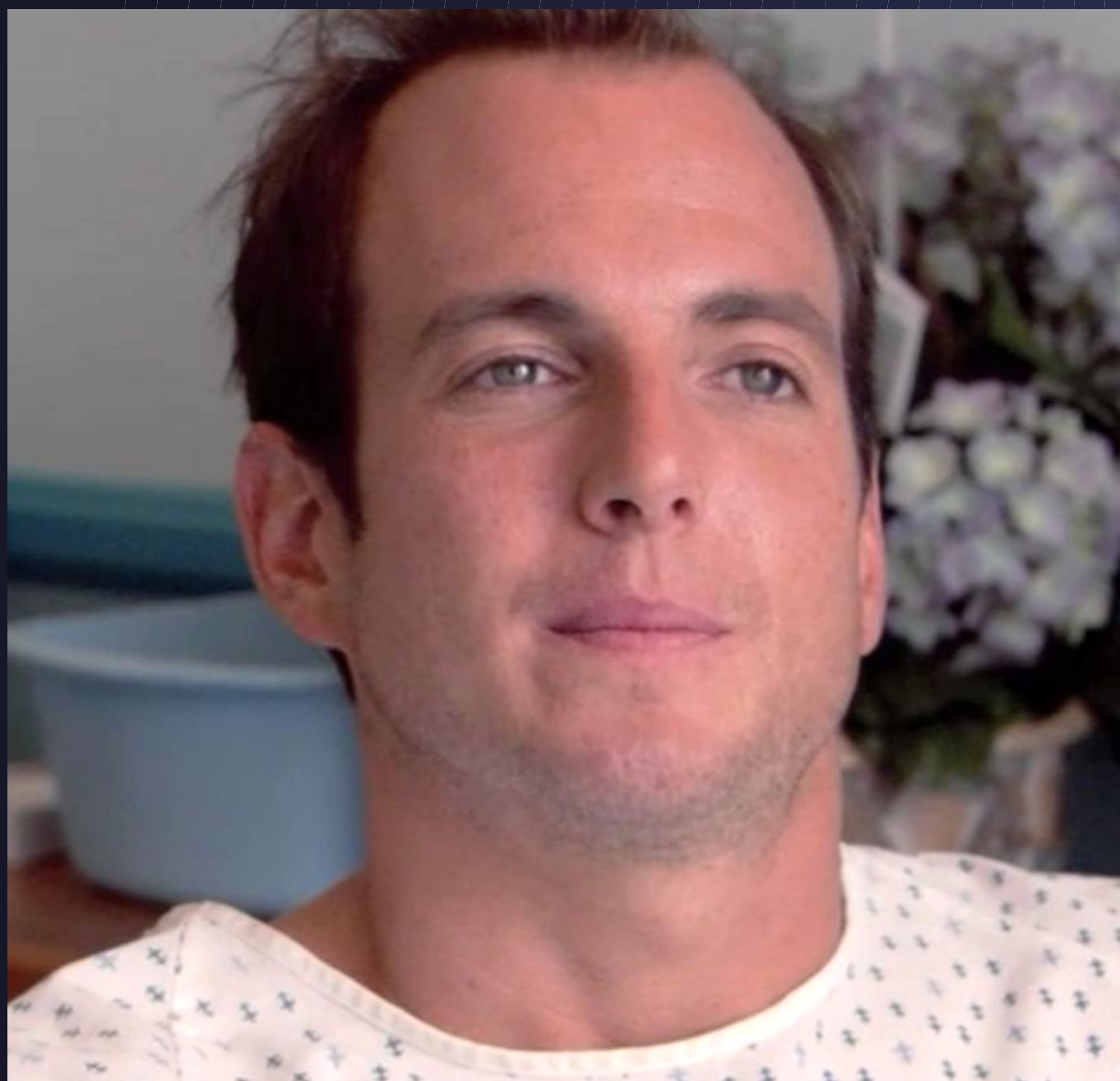
**Build
your own**

**Helm
charts**

**Planetsca
le**



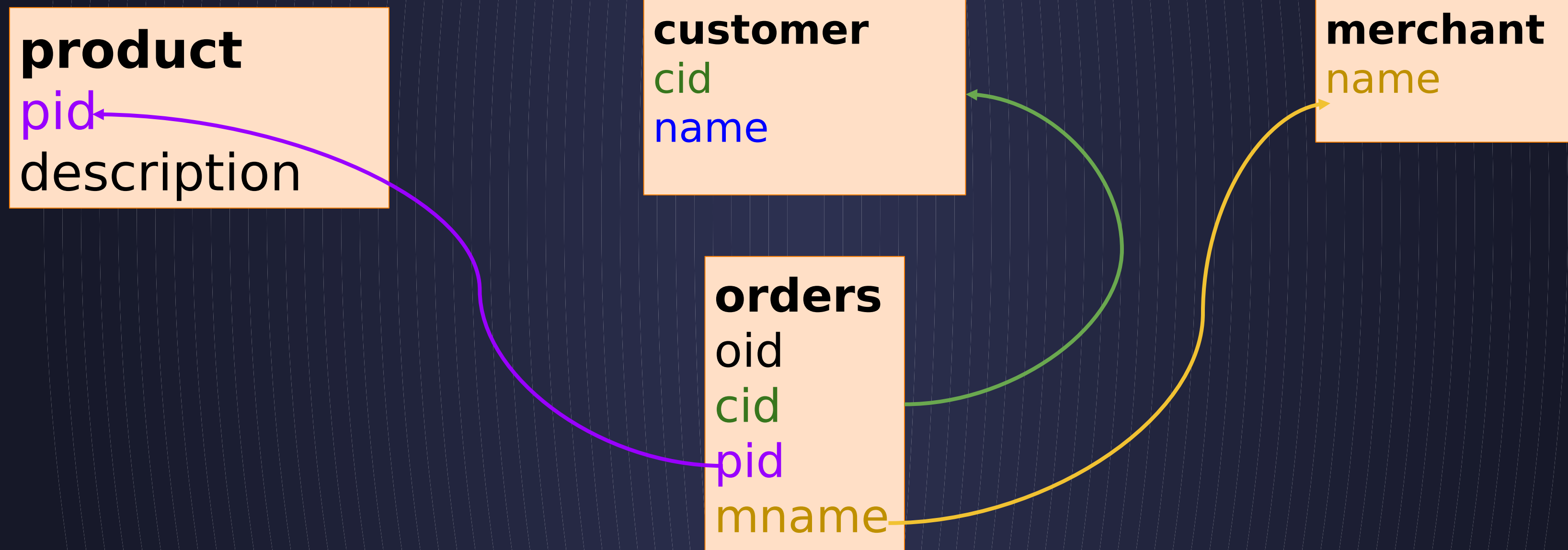
Demo



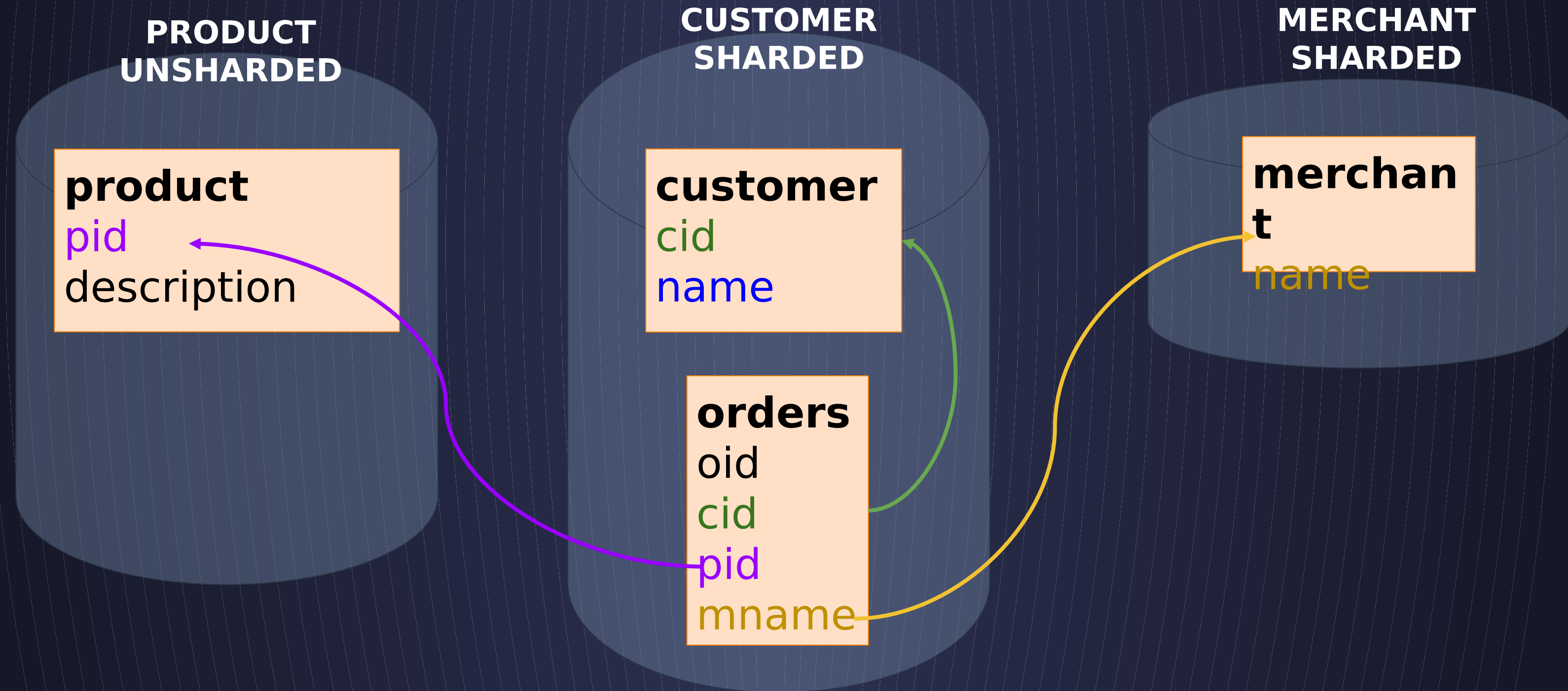
THE **REGRET** FEATURE

“I’ve made a
huge mistake”

Marketplace Schema



Sharded

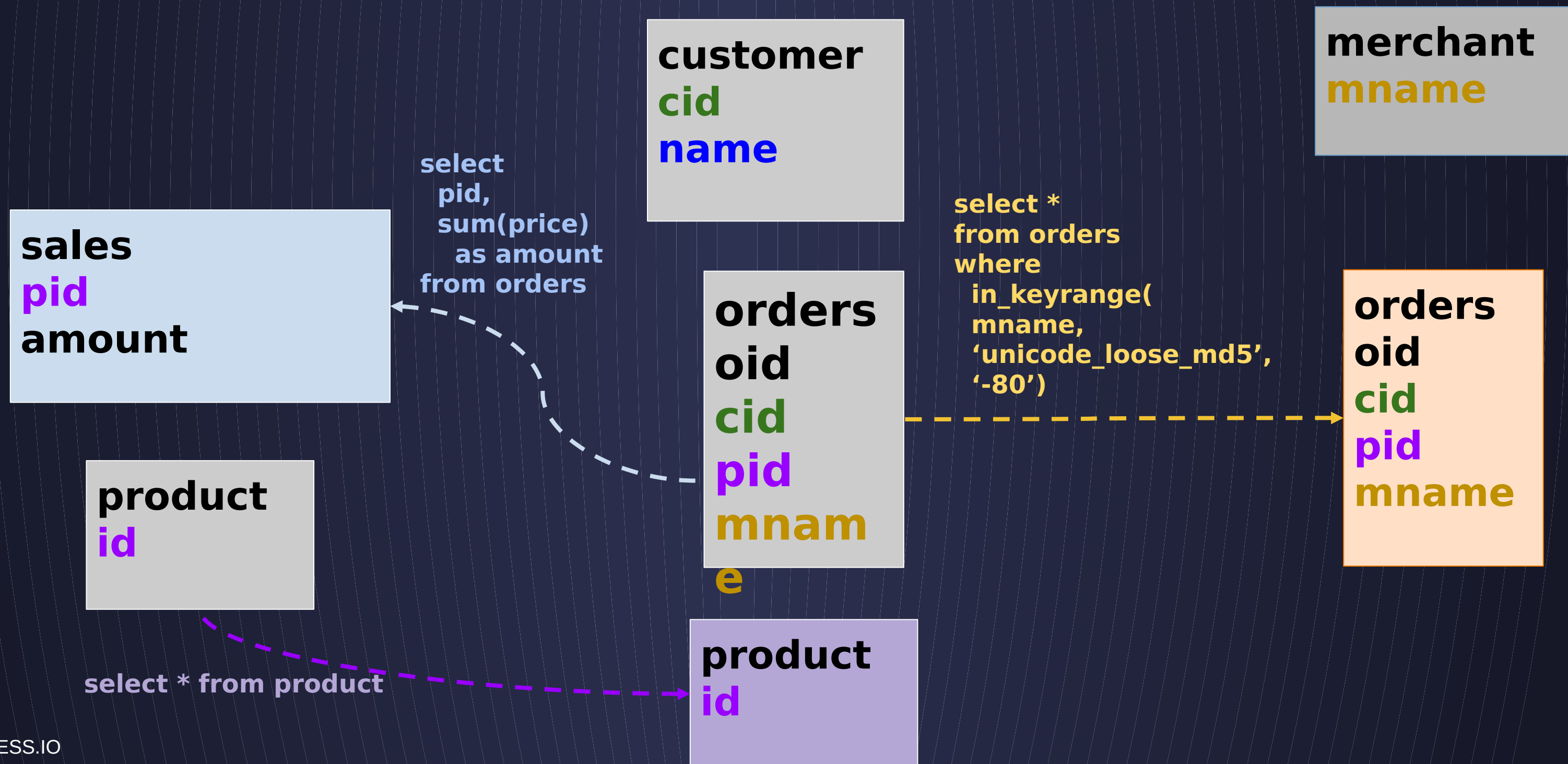


VReplication

PRODUCT
UNSHARDED

CUSTOMER
SHARDED

MERCHANT
SHARDED



Use Cases

Materialized Views

Real-Time Rollups

Resharding

Change Notification

Data Migration

Schema deployment

Backfilling of Lookup indexes

What's Next?

console.planetscale.com
Early Adopter Program



VITESS.IO



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@planetscaledata