# OpenWorks 2023



# The Open, Unified and Most Productive Cloud Database Service for Modern Apps

Jags Ramnarayan - SVP & GM, SkySQL





# "By 2025 750 million new Apps will be created using Cloud-native approaches"

Are Cloud Databases Ready ?



# What are we hearing from our customers? 650+ Customers<sup>1</sup>

CDS Global A Hearst Company	InfoArmor an Allstate company	💬 pronto	<b>Contraction</b> Worldwide	ervicenow
O SelectQuo	TE <b>XDBS</b>	Ødigicert	Cruise couk	Certified Power Solutions
auto 🕲 europe.	Virgin media O2		Glamorise UTOBELL Car wash	<b>a</b> ndocs
PPENHEIMER	SpendHC	ingenico	NOKIA	Copart



# What are we hearing from our customers?

• Can I manage data across clouds?

- Not just replicating data, but distributing it across clouds, including on-premise (with data sovereignty)
- Scale Everything users, volume, DBs
  - SaaS One independent database for every SaaS customer
- Need better automation, better price-performance
  - Work with experts, and resolve instantly
- Can I analyze my operational data sets without complex pipelines?



### **Second Generation Cloud Database Service**

#### • Ultimate flexibility

• Many choices – be it cloud, workload type, language (SQL), or data format (JSON)

### • Simpler

 Easy to scale any which way, easy to derive analytical insights on all current data, easy to monitor all your databases

#### Database innovation

• Cloud database service that is tuned and optimized for cloud infrastructure

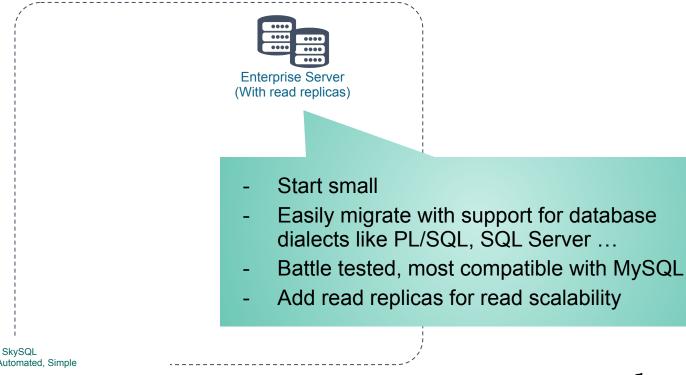


# Is SkySQL 2<sup>nd</sup> Generation?

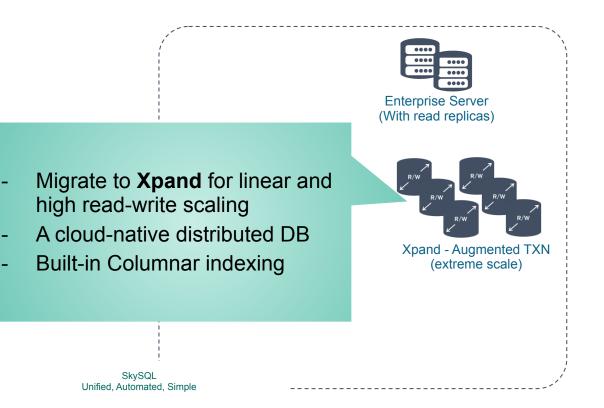
# You be the judge



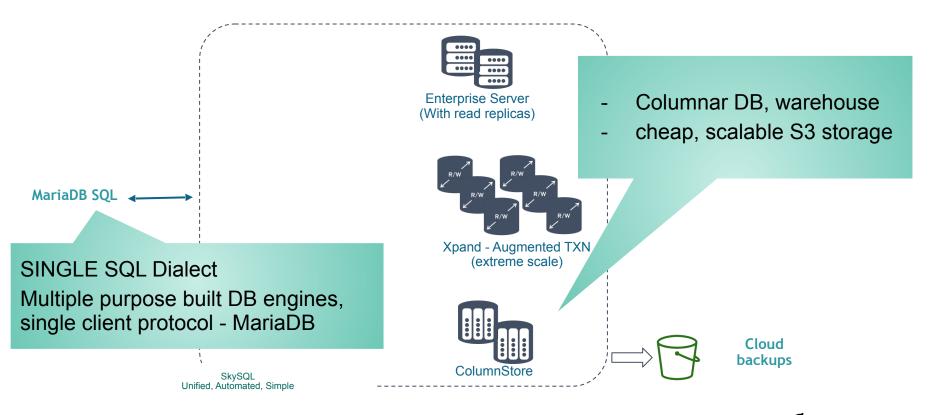
# **MariaDB Enterprise Server - Powerful and Open**



MariaDB





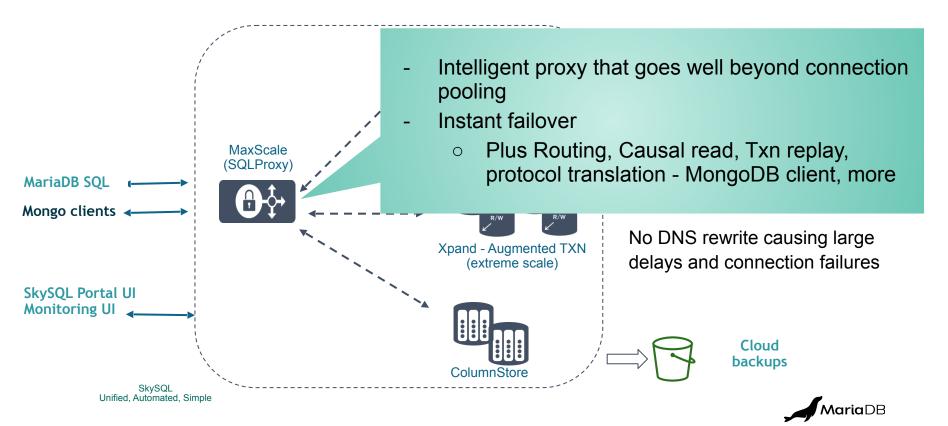




### **Multi-level Resiliency and Continuously Available**

- Clusters always replicate across Availability Zones (AZs)
- Protect against entire region-level failure
  - Replicate data sets across regions
- Protect against cloud provider-level failure
  - Replicate data across even cloud providers
- Leverages k8s self healing
  - Failed nodes are quickly replaced
  - Compute-storage isolation
  - On Disk Data redundantly placed on multiple disks
- Non-blocking backups unlike Hyperscalers



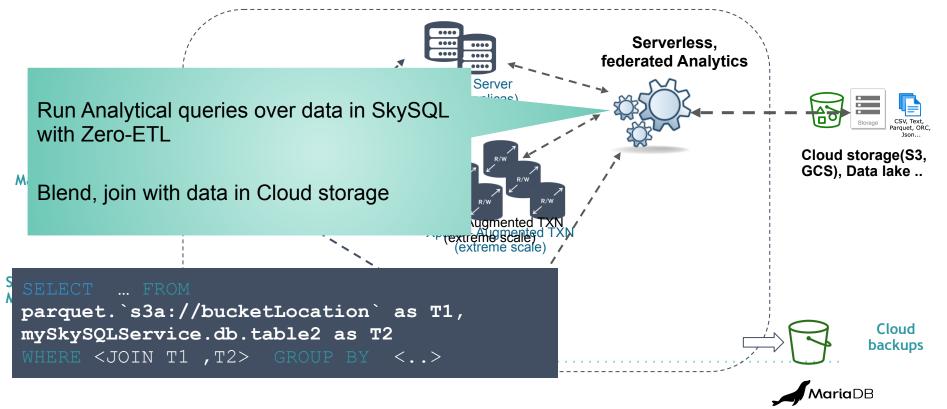


# **Analyze any Operational Data**

# No data pipelines Analytics cannot impede online Apps



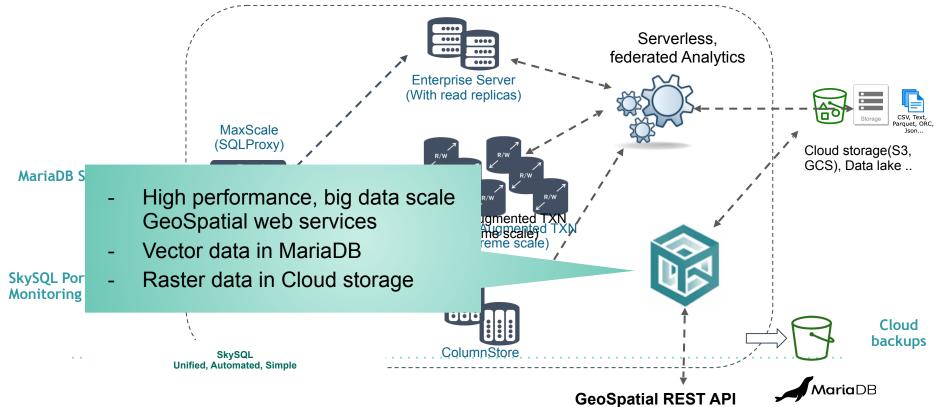
# Zero-ETL, Low Interference Serverless Analytics



# Introducing MariaDB GeoSpatial



# **Build Modern Apps using MariaDB GeoSpatial**



# **Observe Everything, Anywhere**



## **SkySQL Observability Service - Hybrid Cloud DB Monitoring**

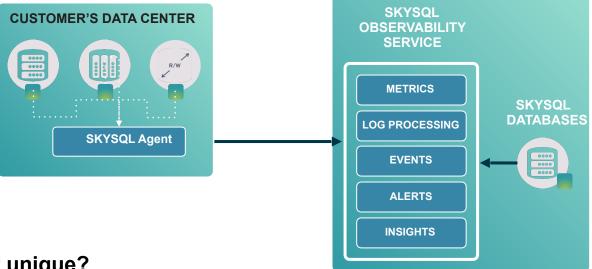
- A single unified monitoring and alerting system
- ML Driven Workload Analysis
- SkyDBA Expert fractional DBA Service



#### Single pane of glass for all your Global DBs



### **Monitor Customer Managed DBs Anywhere**



#### What makes it unique?

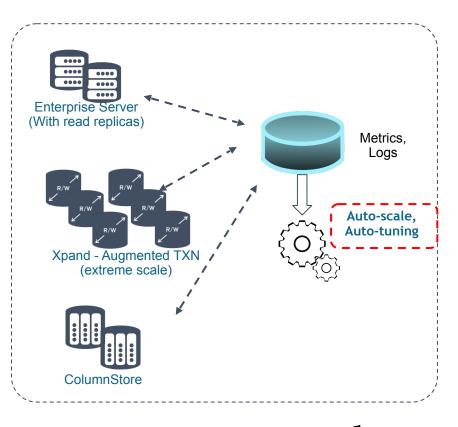
- Tailored for MariaDB products
- Intelligent Health Assessment and Alerting
  - Rules/Alerts tailored by specialists for your workload
  - Feed-derived insights to APM tools like Datadog

Single pane of glass for all your Global databases



### **Reduce Costs with Auto-Scaling**

- Intelligent, policy-driven compute scaling
  - Vertical or horizontal
  - Driven by real-time load measurement
  - CPU, memory, concurrent activity
- Linear prediction-driven storage scaling





# Introducing Backup As a Service

Ensure Business Continuity, Migrate with ease, Blue-Green Deployments



### A Multi-Cloud Backup Service

MariaDB	Cloud Backup		Welcome <b>Jags Ramnarayan</b>
<ul> <li>II Dashboard</li> <li>➡ Backup Tasks</li> </ul>	Dashboard date range		Take the tour + Step by Step Wizard
<ul> <li>Restore Tasks</li> <li>Backups &amp; Restores</li> <li>Backups</li> </ul>	O Agents Running O Agents with Errors O Agents Unknown Status O Agents Not Installed	0 Backups 0 Binlogs Backups 0 Restores	100% Backup Success rate
<ul> <li>Binlogs</li> <li>Restores</li> <li>Configuration</li> <li>Databases</li> <li>Storage</li> </ul>	Current Billing Summary           0.00 GB         Total Backup Storage in Cloud Backup Managed Storage           0.00 GB         Total Restore Egress Traffic from Cloud Backup Managed Storage           \$0.00         Total Flat Cost Per Month           \$0.00         Storage Cost (Flat Monthly Per GB Over 100 GB)           \$0.00         Egress Restore Traffic (Flat Monthly Per GB Over 100 GB)	Running Tasks No Tasks Today's Tasks No Tasks	
Schedules	Average Running Tasks		
Retention Policies  Third Party Integrations	Not enough data to show the chart		
a. AWS S3	Average Backup Size (Top 10)	Longest Running Backups	
Slack	Not enough data to show the chart	Not enough data to show the chart	

Guided TourHelp Index

- Fully Managed, Secure Backup for MariaDB running anywhere
  - On-prem, Any Cloud, SkySQL



# Make Developers Productive. Instantly



### **Productivity for Developers and DevOps**

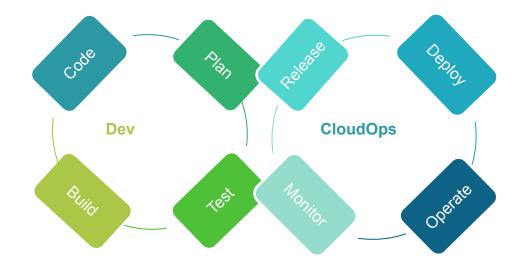
#### • API-first approach

- Prometheus for 3<sup>rd</sup> party observability
- REST APIs
- Terraform Provider

### • Developer Tools

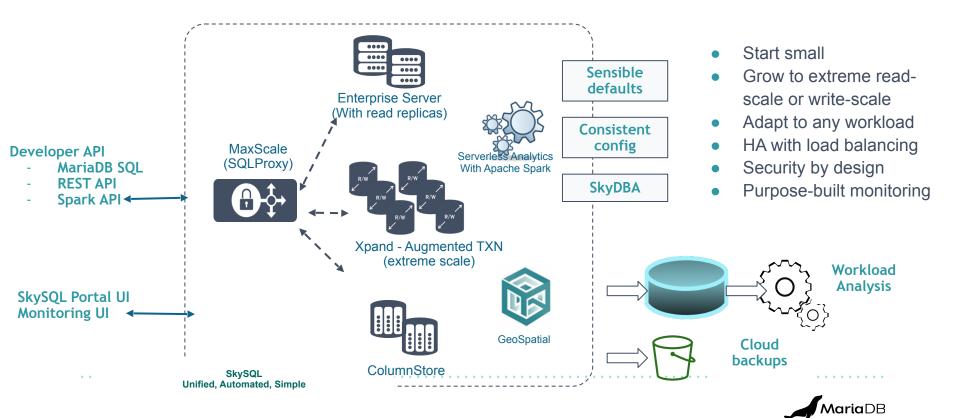
- SQL Query Editor
- Apache Zeppelin Notebook
- 3<sup>rd</sup> party development, integration, migration tools

• NoSQL API - MongoDB compatible





# SkySQL - Txn+Analytics, Any scale, Unified Ops



24

### So, Is SkySQL a Next-Generation Cloud DBaaS?

- Open
  - MariaDB is one of the most open databases in the world

### • Simpler/Productive

Common DBA functions automated, built-in developer tools

### • Unlimited Flexibility

- Purpose built engines, One SQL dialect, unified management
- Zero-ETL Analytics, GeoSpatial ...

#### • Cloud native

Optimized for cloud infrastructure - horizontal scalability, redundant





