

ORACLE
DevLive

Level Up

MySQL Summit

Accelerate Web, Ecommerce, and OLTP Applications with MySQL HeatWave

Airton Lastori

MySQL Product Manager

Oracle



Innovative organizations across many industries run MySQL

Social

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LinkedIn



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Booking.com

NETFLIX

UBER



淘宝网
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阿里巴巴
Alibaba.com

Tech



GitHub

HubSpot

zendesk



Finance



J.P.Morgan

citi



VISA



Manufacturing

TESLA



TOYOTA



MySQL powers open source applications

Custom Apps Development



django



Content management and eCommerce



Learning platforms



MySQL HeatWave

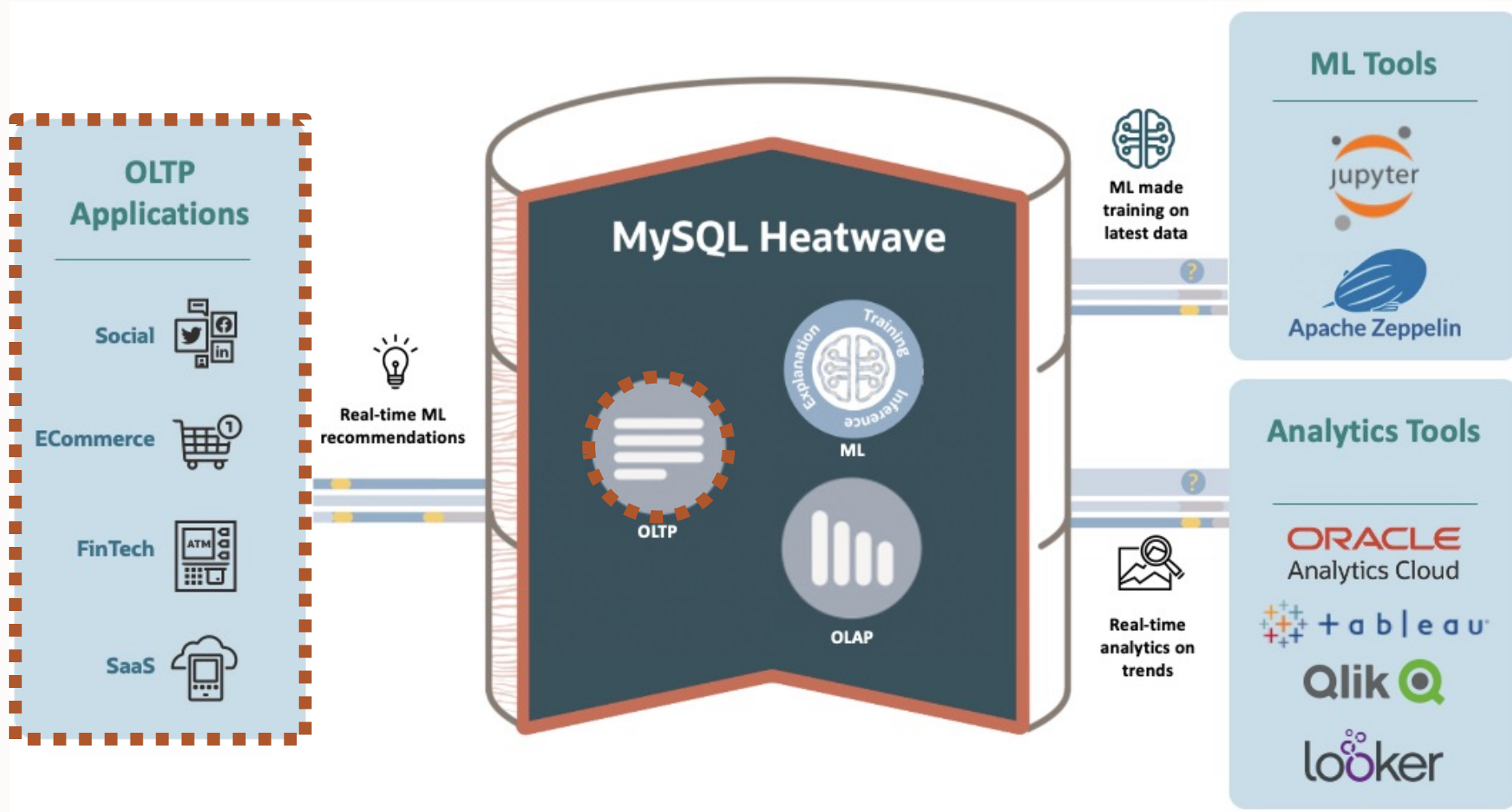
Fully-managed database service



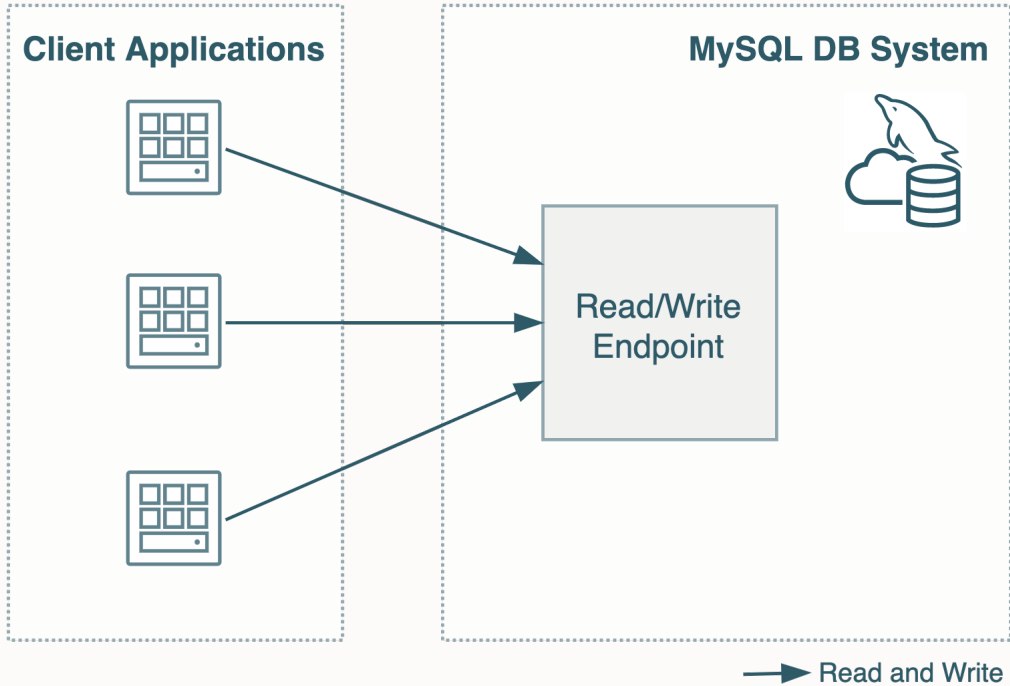
- **Productivity**
 - High-availability & Scalability
 - Backups & Restores
 - Security & Compliance
 - Patching & Upgrades
- Unbeatable **price/performance**
- Developed and operated by the **MySQL engineering team**
- **Enterprise Edition** and **Premier Support** included

Architectures

One database service for transactions, analytics, and machine learning



MySQL DB system



The screenshot shows the "Create DB System" page in the Oracle Cloud console. The browser address bar shows the URL: `cloud.oracle.com/mysqlas/db-systems?region=us-ashburn...`. The page header includes the Oracle Cloud logo and the region "US East (Ashburn)".

The main form is titled "Create DB System" and contains the following sections:

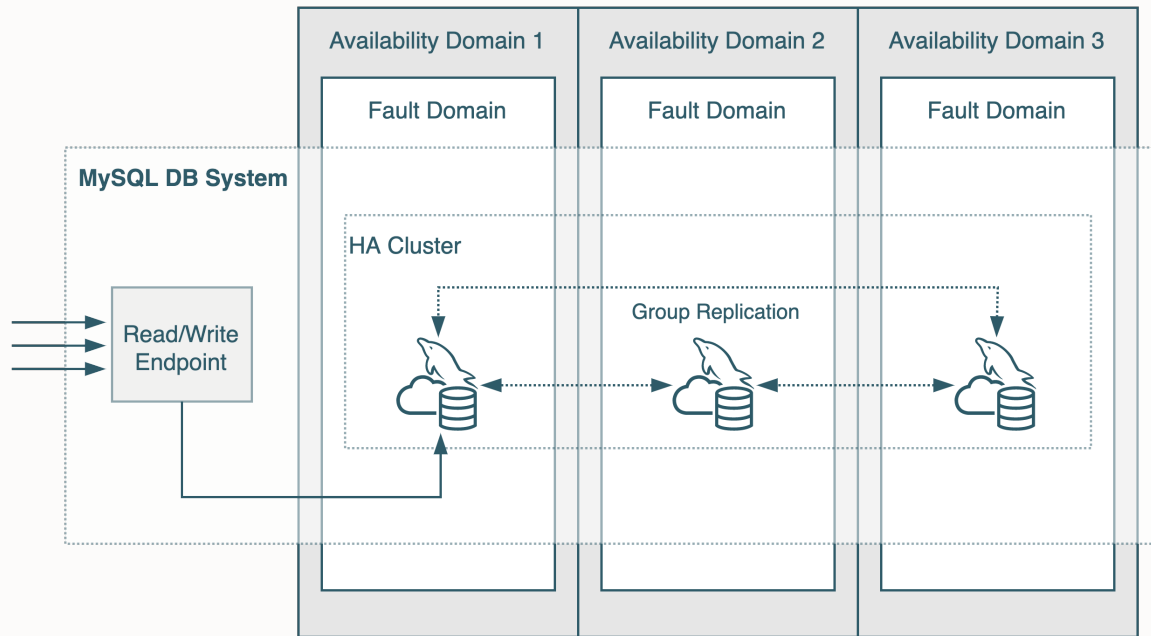
- Name:** A text input field with the value "mysql-ocw". Below it, a note states: "The user-friendly name for the DB System. It does not have to be unique."
- Description:** A text area labeled "Optional". Below it, a note states: "User-provided data about the DB System."
- Configuration Options:** Three selectable options are shown in boxes:
 - Standalone:** "Single-instance DB System". This option is selected, indicated by a blue checkmark in the bottom right corner.
 - High Availability:** "Run a DB system with 3 MySQL instances providing automatic failover and zero data loss".
 - HeatWave:** "DB System that allows you to enable HeatWave for accelerated query processing, suitable for running both OLTP and OLAP workloads".
- Create Administrator credentials:** A section with a "Username" label and a text input field containing the value "admin".

At the bottom of the form, there are two buttons: "Create" (in blue) and "Cancel" (in light blue). The footer of the page includes links for "Terms of Use and Privacy" and "Cookie Preferences", and a copyright notice: "Copyright © 2022, Oracle and/or its affiliates. All rights reserved."



High Availability

Single-click



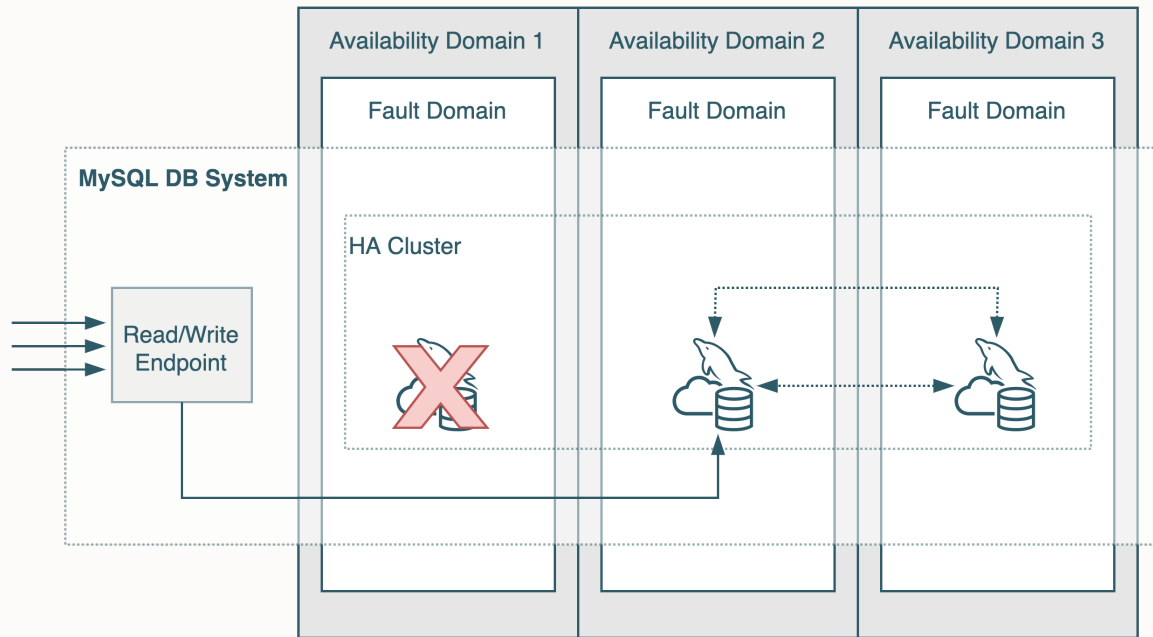
The screenshot shows the 'Create DB System' interface in the Oracle Cloud console. The browser address bar shows the URL: `cloud.oracle.com/mysqlas/db-systems?region=us-ashburn...`. The page title is 'Create DB System'. The form includes the following fields:

- Name:** `mysql-ocw-ha`. A note states: 'The user-friendly name for the DB System. It does not have to be unique.'
- Description:** Optional. A text area for user-provided data about the DB System.
- Configuration Options:** Three options are presented: 'Standalone' (Single-instance DB System), 'High Availability' (Run a DB system with 3 MySQL instances providing automatic failover and zero data loss), and 'HeatWave' (DB System that allows you to enable HeatWave for accelerated query processing, suitable for running both OLTP and OLAP workloads). The 'High Availability' option is selected with a blue checkmark.
- Create Administrator credentials:** A section for creating a user. The 'Username' field is set to `admin`.

At the bottom, there are 'Create' and 'Cancel' buttons. The footer includes 'Terms of Use and Privacy', 'Cookie Preferences', and a copyright notice: 'Copyright © 2022, Oracle and/or its affiliates. All rights reserved.'

High Availability

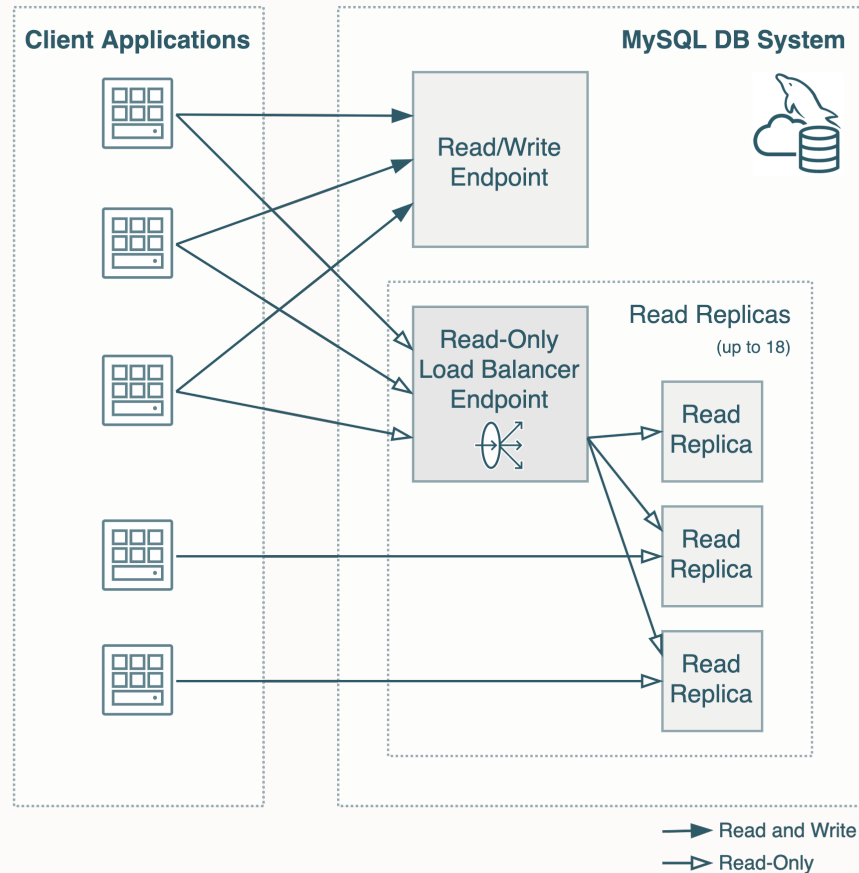
Single-click



- SLA **99.99%**
- Automatic failover
- Zero Data Loss during failure event
- Option to manually switch-over
- Rolling upgrades during maintenance

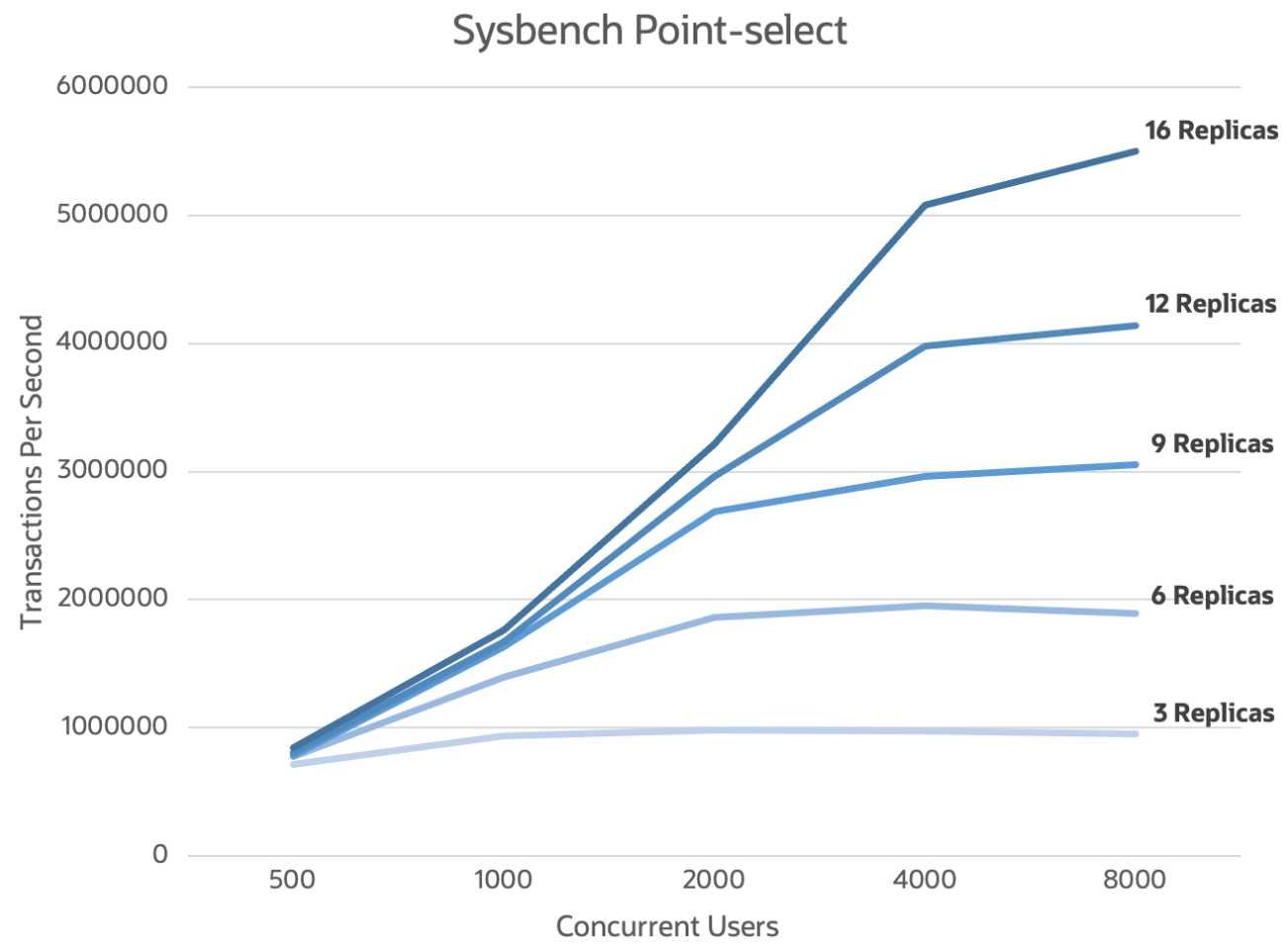
Read Replicas

Scale Read Workloads



- Increase capacity for read-intensive workloads
- Add and remove Read Replicas for horizontal elasticity
- Easy to deploy and maintain
- Built-in Load Balancer for the read-only endpoint
- HA Cluster is ready for switchover or failover

Read scalability



DB system Inbound and Outbound Replication

Cross-region replication

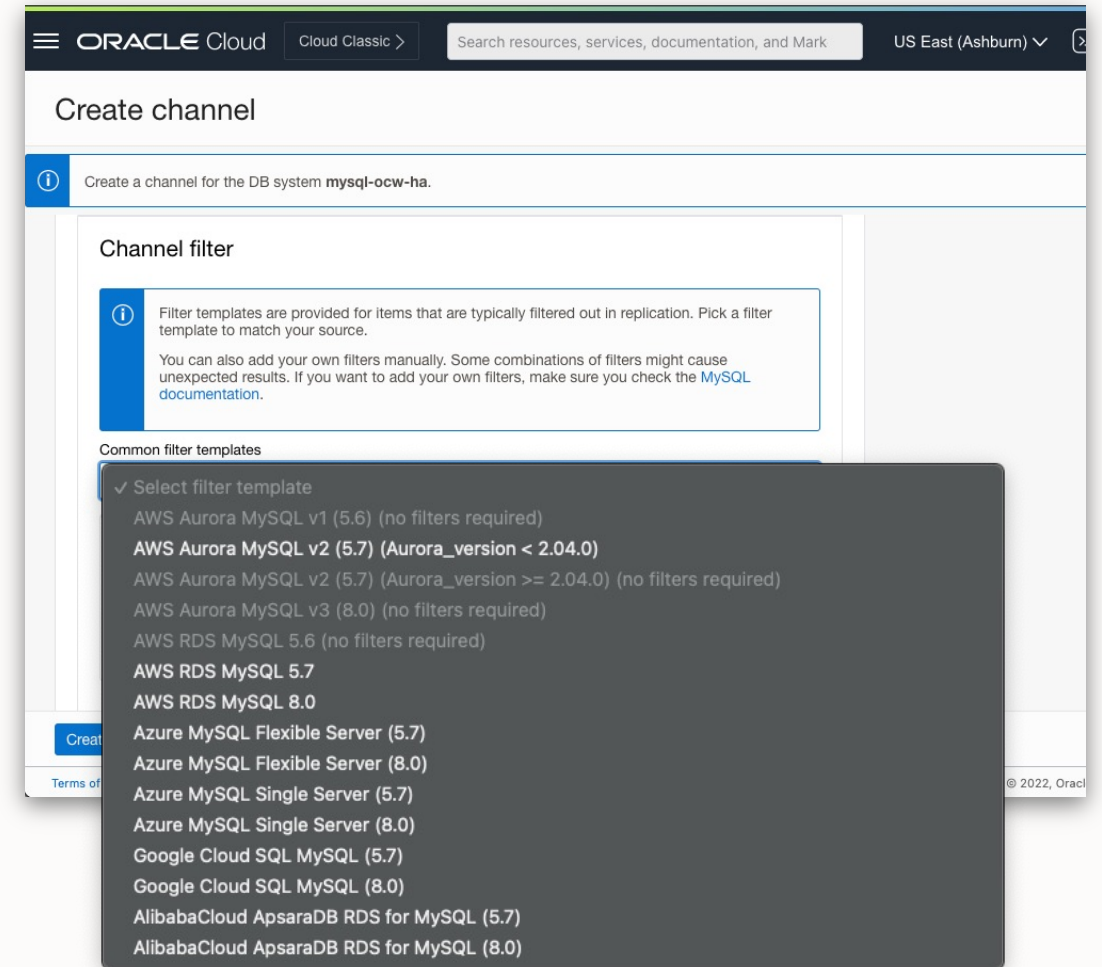
- DB System to DB System

Live Migrations

- Minimize downtime

Hybrid deployments

- On-premises and other cloud vendors
- Disaster Recovery
- Capacity bursting
- HeatWave for Analytics, ML, Lakehouse



Security, Patches and Upgrades

Always Secure

- Enforces use of private networks and security lists
- Always encrypted
- Enterprise Data masking functions
- Enterprise Encryption functions
- Identity federation
- Public API audit
- Password policy validation
- Connection control against brute force attacks attempting to guess MySQL login credentials

Always up-to-date

- Latest MySQL Server patches in the same day or earlier
- Automatic upgrades
- Rolling upgrades
- Long-Term Supported (LTS) releases *Coming soon*



Demo

Get started

Dashboard

Service links

PINNED

- 🌟 [Instances](#) Compute
- 🌟 [Virtual Cloud Networks](#) Networking

RECENTLY VISITED

You haven't visited anything yet.

RECOMMENDED - [Customize](#)

- [Groups](#) Identity
- [Policies](#) Identity
- [Tenancies](#) Organization Management
- [Buckets](#) Object Storage & Archive Storage
- [Autonomous Database](#) Autonomous Database
- [Logging](#) Logging

Quickstarts

[View my deployments](#)

FEATURED

Predict the result of the
next race

25-30 mins



APPLICATION DEVELOPMENT



Deploy a WordPress website

6-8 mins

APPLICATION DEVELOPMENT



Deploy a low-code app on
Autonomous Database using APEX

3-5 mins

APPLICATION DEVELOPMENT



Deploy RStudio in a container

10-12 mins

APPLICATION DEVELOPMENT



Deploy a baseline landing zone

7-9 mins

DATABASE



Visualize and analyze Strava data on
Autonomous Database

2-4 mins

Your tenancy

mdspm



All services operational

[View health dashboard](#)

Cost savings opportunities

Estimated savings: 0

[View recommendations \(38\)](#)

OCI mobile app

Review alarms, access billing and usage data,
and manage resources on the go.

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Get early access to OCI features

Try out upcoming features and share your
feedback

[Join preview program](#)

What's new

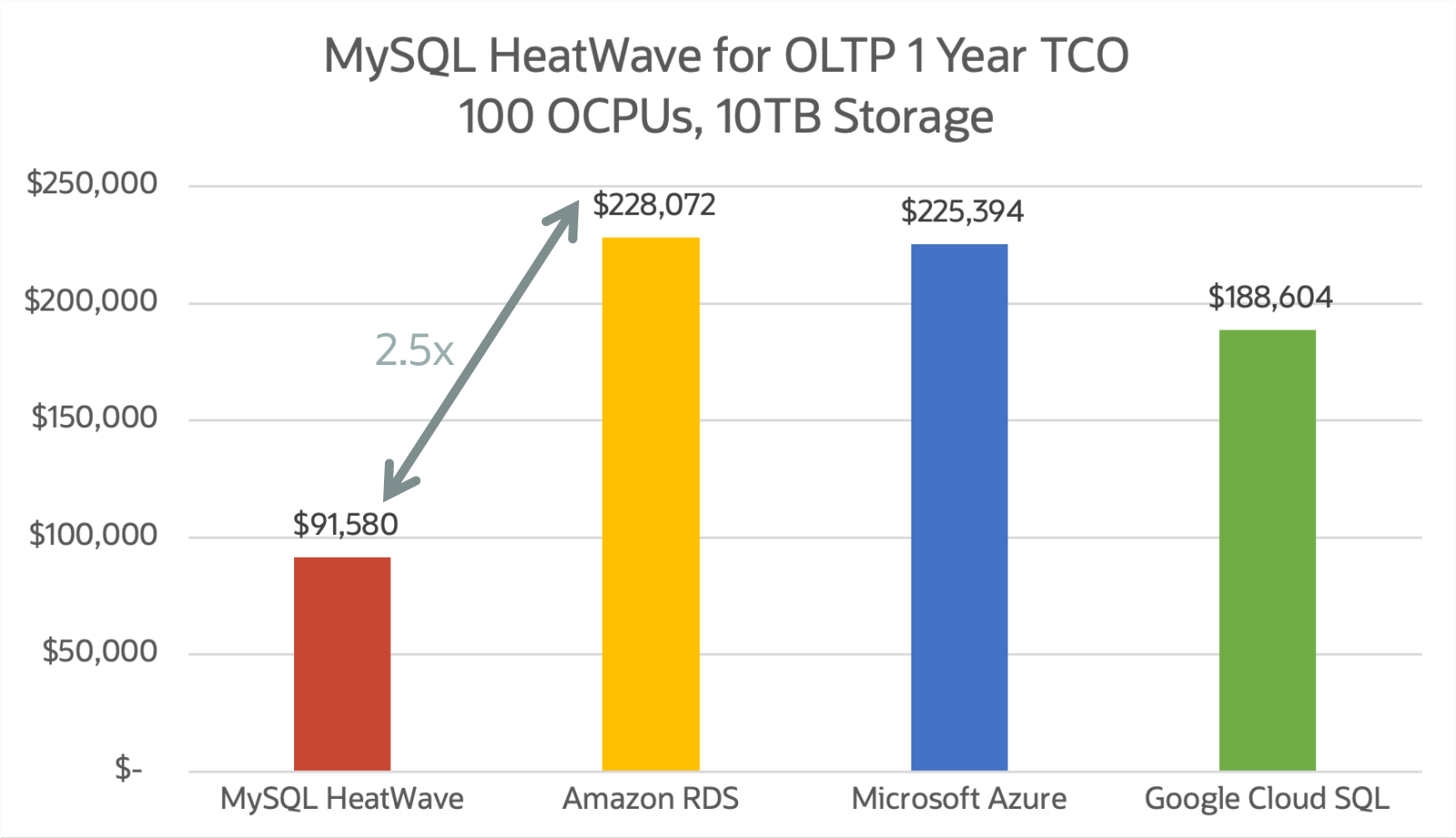
Pipelines and pipeline runs are introduced.
Jan 25, 2023

Management Agent Enhancements
Jan 23, 2023



Wrap-up

Unbeatable price/performance



MySQL HeatWave Standard X9 Intel 16GB/Core, all regions have the same price.

Amazon RDS: Intel R5 16GB/Core, AWS US East.
Azure: Memory Optimized Intel 20GB/Core, MS Azure US-East.

Google: High Memory N1 Standard Intel 13GB/Core, GCP Northern Virginia.



The MySQL team as part of your team



Oracle Premier
Support included



Service Operations by
the MySQL developers



MySQL Enterprise
Edition included

Get started with MySQL HeatWave

Get \$300 in credits and try free for 30 days

» oracle.com/mysql/free



Learn more about MySQL HeatWave

» oracle.com/mysql

Thank you!



Please rate this session.

Session ID – MS02



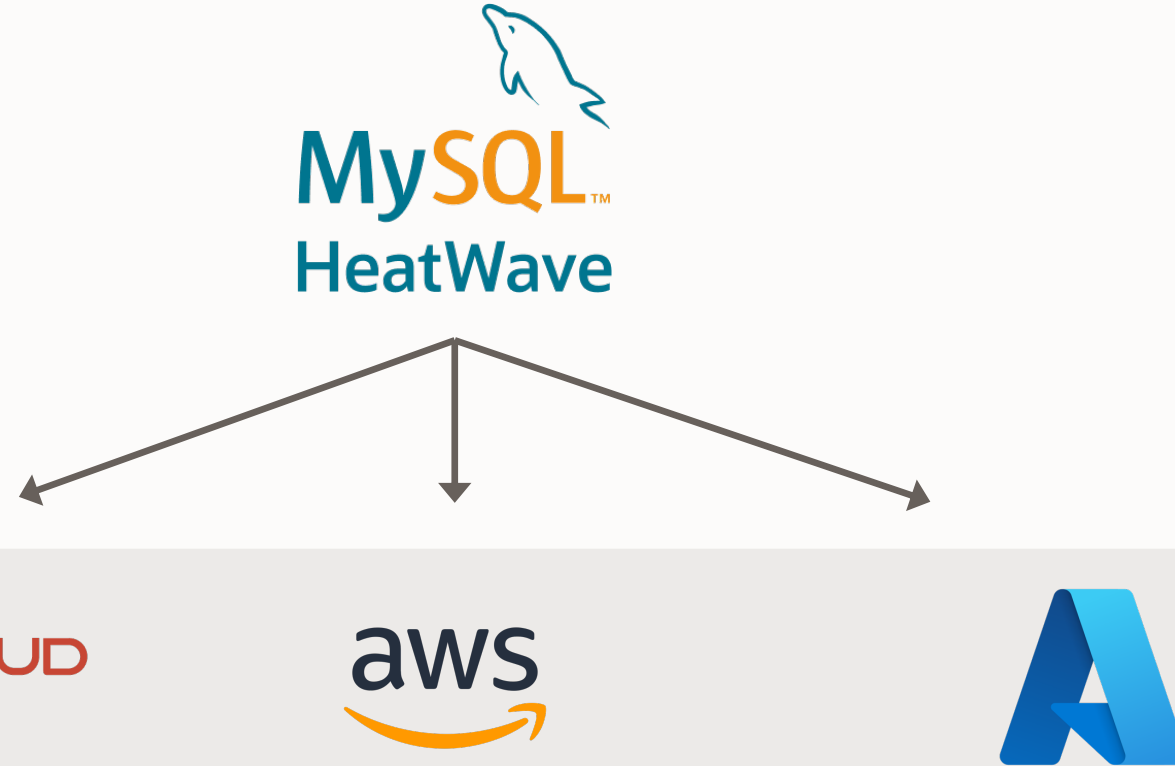
MySQL HeatWave Cloud Service

100% developed, managed, and supported by Oracle

	Automation	MySQL HeatWave
Database	High Availability	✓
	Read Replicas	✓
	Backup	✓
	Query Acceleration	✓
	AutoPilot	✓
	AutoML	✓
	Security Patch & Upgrade	✓
	Provision & Configure	✓
OS	OS Security Patch & Upgrade	✓
	OS Installation	✓
Server	Hardware Provisioning & Maintenance	✓
Storage	Storage Provisioning & Maintenance	✓
Data Center	Rack & Space	✓
	Power, HVAC, Networking	✓



Available in Public Clouds



Optimized to deliver the best price performance in each cloud

Available in OCI datacenters worldwide

35 Regions

