

ORACLE

MySQL HeatWave & Lakehouse

Demo

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Oracle MySQL GBU

The MySQL Heatwave “Family”

... the Oracle MySQL Cloudservices

“MySQL HeatWave”



InnoDB



MySQL Database Service

General Purpose - OLTP



InnoDB RAPID



MySQL Heatwave

General Purpose - OLTP
+ Analytics – OLAP
Incl. Machine Learning



InnoDB RAPID Lakehouse



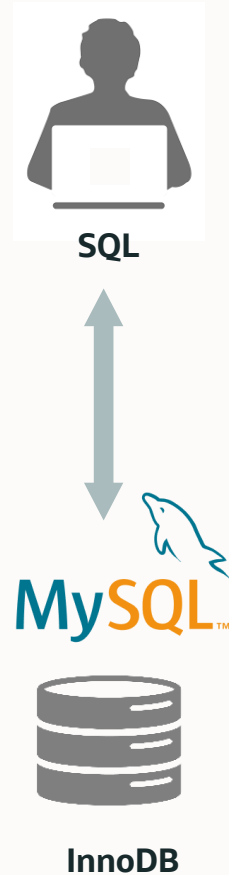
MySQL HeatWave Lakehouse

Lakehouse (Beta)

MySQL HeatWave (Database Service)

MySQL Leading Node Shape

- Data in InnoDB
- InnoDB & *Rapid*
- Source/Replica (Channels)
- Backup, PITR etc.
- ...
- **OLTP**

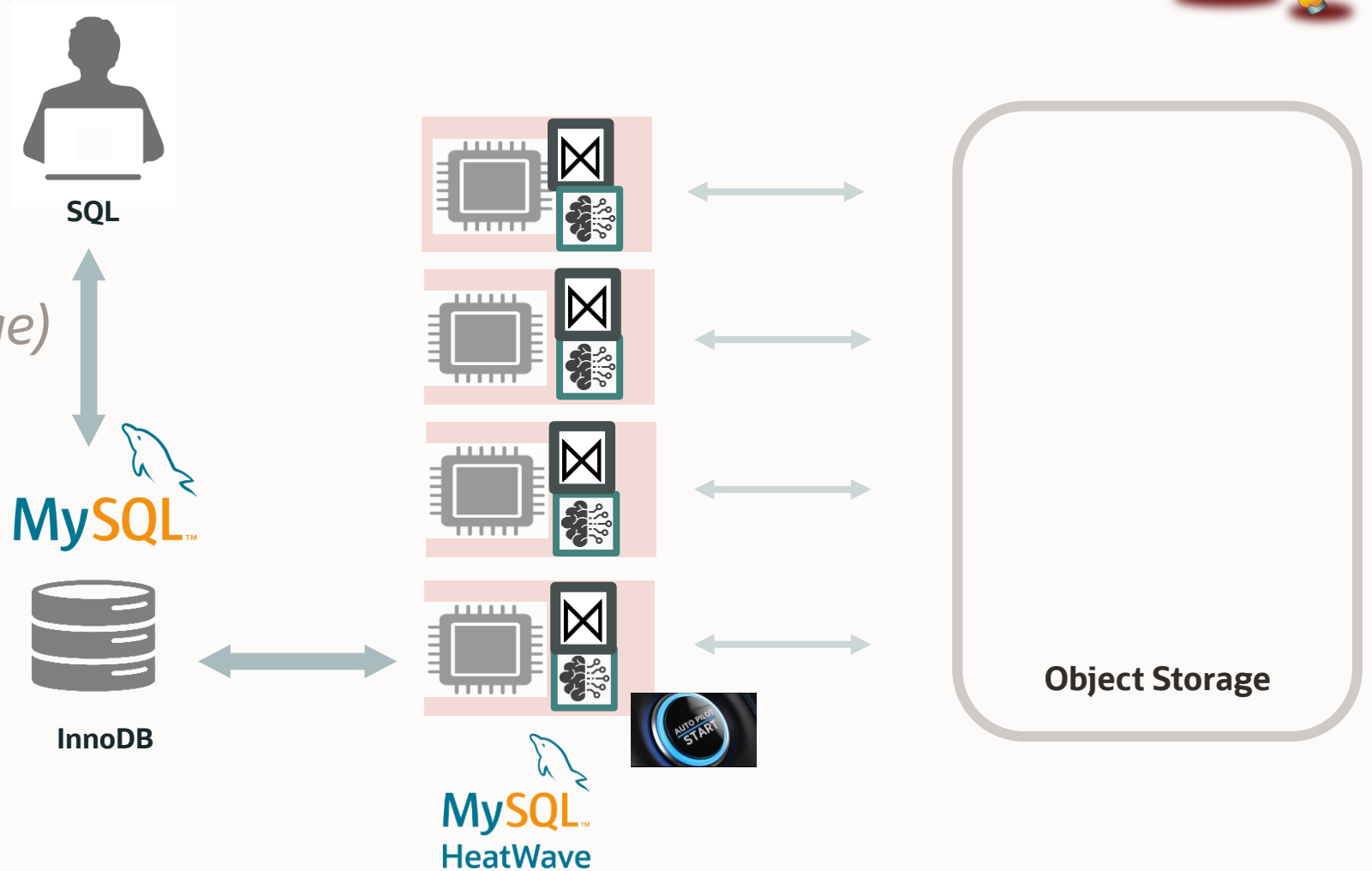


MySQL HeatWave Lakehouse

MySQL HeatWave Backend



- Data in InnoDB
- + Data in HW (*Object Storage*)
- **OLTP & OLAP**



Transaction Processing

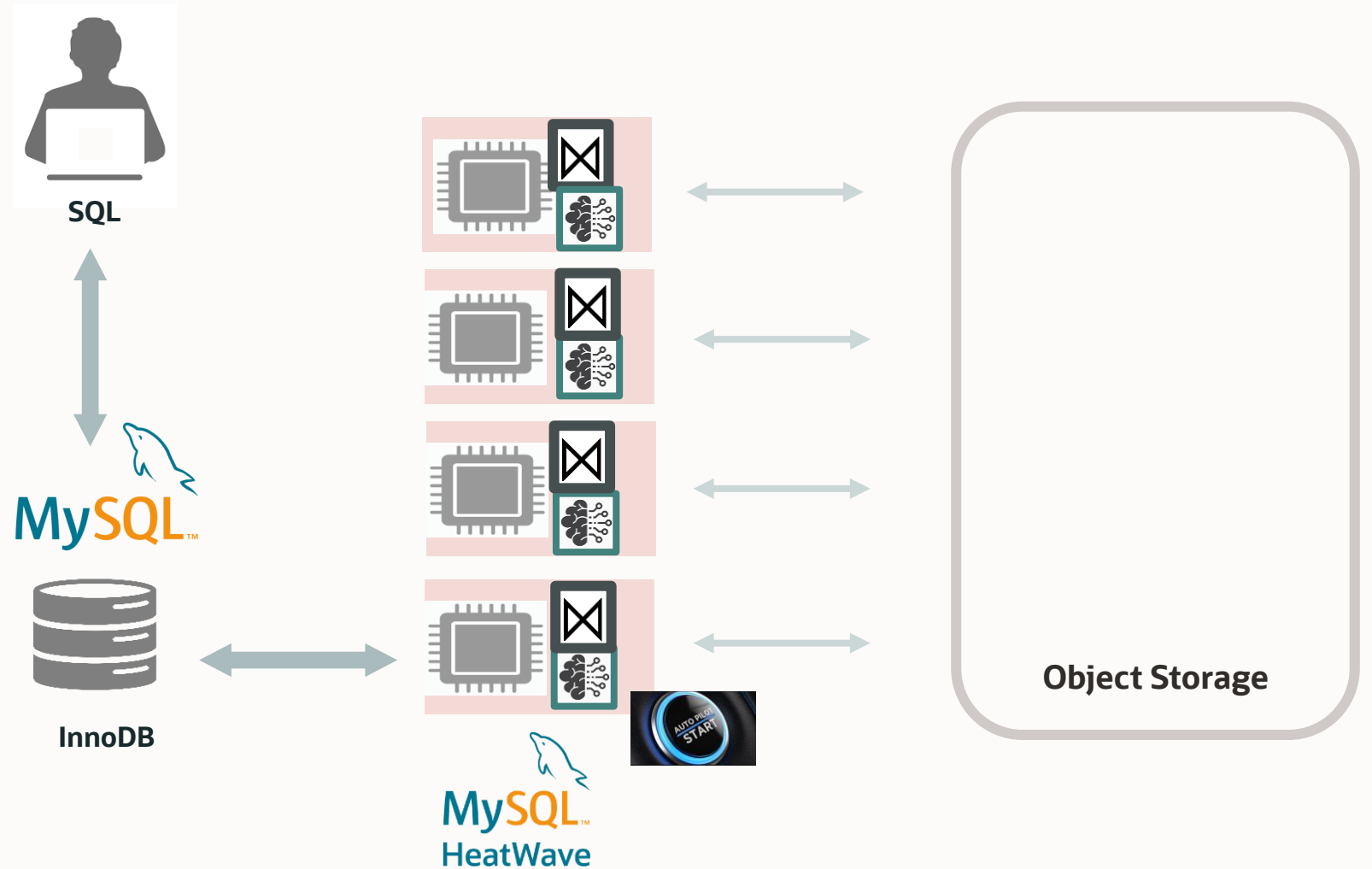
Analytics

MySQL HeatWave Lakehouse

MySQL HeatWave Backend Auto ML

- Classification
- Regression
- Forecasting

- **OLTP & OLAP & ML**



Transaction Processing

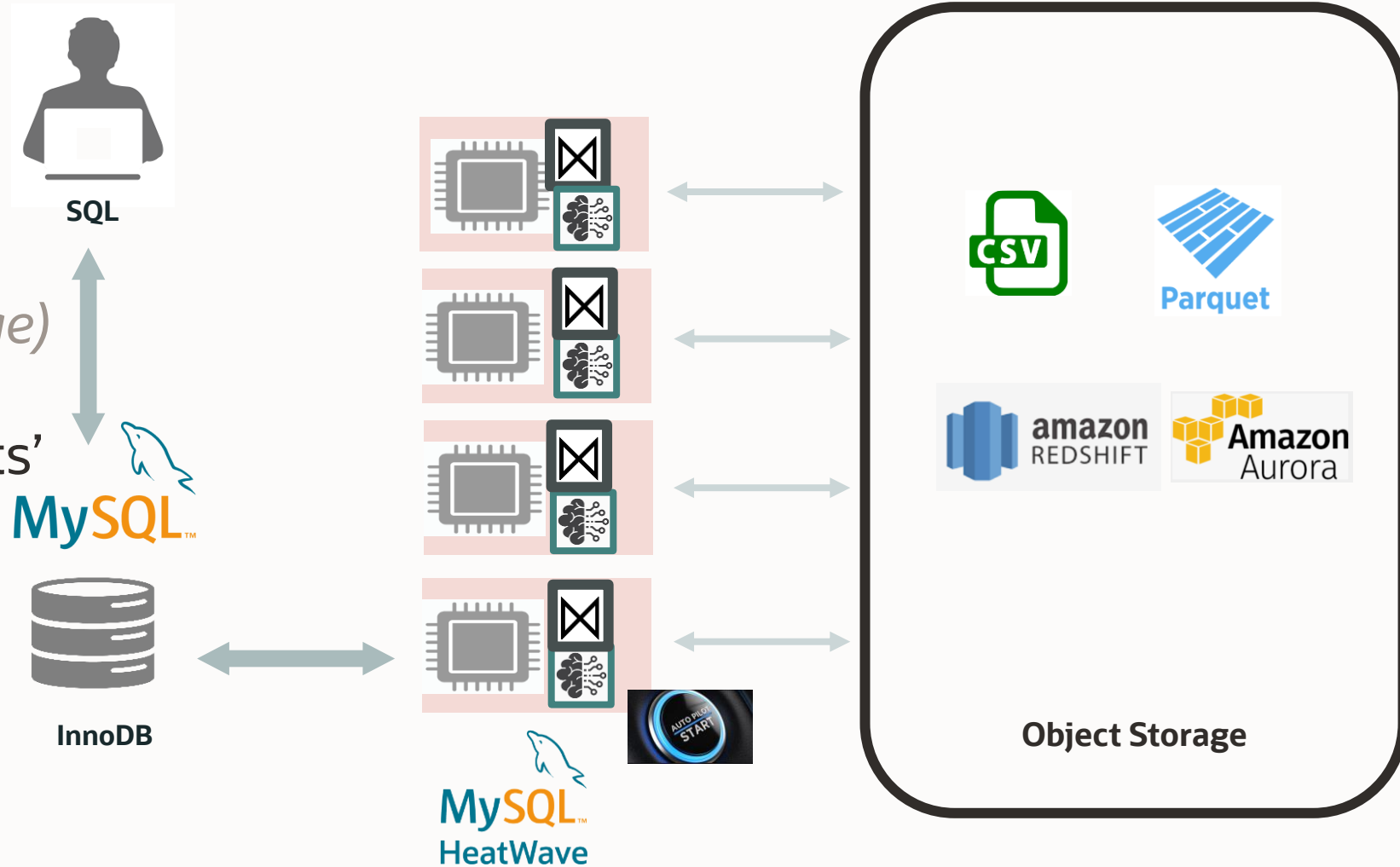
Analytics

Machine Learning

MySQL HeatWave Lakehouse

Support data on object store, multiple file formats, larger data size

- Data in InnoDB
- + Data in HW (*Object Storage*)
- + Data from Object Storage
CSV, Parquet, 'AWS Exports'
- **OLTP & OLAP & ML**



Transaction Processing

Analytics

Machine Learning

Object Store

Lakhouse

MySQL HeatWave Lakehouse characteristics

Now in Beta...



- Query engine for OLTP, OLAP, ML
- Query across data from MySQL database and Object Storage
- MySQL Autopilot for HeatWave and Lakehouse
- Scale out architecture – 512 HeatWave nodes
- 100% compliant with standard MySQL syntax

