

Migrating to HeatWave MySQL: Questionnaire

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This questionnaire is intended to help you assess your migration readiness and start planning your migration project. Migration guides to HeatWave MySQL on OCI and AWS with step-by-step instructions are provided separately.

Business Considerations

- Have you identified the application(s) in scope for the migration project?
- Have the application owner(s) and key stakeholders signed off on the migration project?
- Has the budget for the migration to HeatWave MySQL been approved?
- Do you have a migration timeline, and people assigned to work on the migration?
- Do you need expert guidance from an Oracle Solution Engineer?
- Do you plan to work with a preferred partner on the migration?
- Would you like to engage with Oracle consulting services to conduct the migration?

Technical Considerations

Source Architecture

- What is your source OLTP database?
- If using MySQL on-premises:
 - Are you using MySQL Community, Standard, or Enterprise Edition?
 - Are you using a MySQL fork, e.g., MariaDB or Percona Server for MySQL?
 - What storage engine are you using?
- What is the current version of the database(s)?
- How many database instances do you intend to migrate?

- Do you intend to migrate to HeatWave MySQL on OCI or AWS?
- What is the size of your database(s)?
- What is the Operating System for the database(s)?
- What are the specifications of your current architecture (CPU type, number of cores, available RAM)?
- How much data is typically written to your database(s) per day? (e.g. amount of binlogs)
- What is the average and peak number of concurrent connections to your database(s)?
- Do you have multiple servers connected via replication?
 - If so, what is the objective? (High Availability, read scalability, maintain separate workloads...)
- Do you have stored procedures, functions, or triggers that you would like to migrate?
- Do all your tables have a primary key?
- What is the character set for all your database tables?
- Do you already have flat files (tsv, csv) that you would like to use to load data into HeatWave MySQL?
- If you're already running in the cloud, in what region?
- Do you rely on a separate analytics database?
 - If so, what ETL tools do you use to move data to your analytics database?
- Do you have machine learning use cases?
 - If so, what machine learning tools/services are you using?
- What tool do you use to monitor your database(s)?

- Do you have any compliance, regulatory, or auditing requirements?

Business Continuity Requirements

- What are the SLA requirements for your database(s)?
- What are your Recovery Time Objective (RTO) and Recovery Point Objective (RPO) requirements?
- How much database downtime can you allow for migration purposes?
- When is the optimal migration time window?

Backups

- How do you back up your database?
- Are you taking online or offline backups?
- What is your backup schedule?
- What is your backup retention period?
- Where do you store your backups?

Application

- Is your application hosted on-premises or in the cloud?
- Will you be migrating your application as well to OCI or AWS?
- What language is your application written in?

- Did you check the compatibility of your current data model with the latest MySQL release? (see [MySQL Shell's Upgrade Checker Utility](#))

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