Migrating to MySQL HeatWave: 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 MySQL HeatWave 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 MySQL HeatWave 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 MySQL HeatWave 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?
  o 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 MySQL HeatWave?

• If you’re already running in the cloud, in what region?

• Do you rely on a separate analytics database?
  o If so, what ETL tools do you use to move data to your analytics database?

• Do you have machine learning use cases?
  o 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)