

## 6 Cloud Migration

Oracle Cloud makes migration to Oracle Database 23ai more reliable. It provides a tool to transparently move your Advanced Queue events to the new Transactional Event Queues. The Cloud Premigration Advisor tool proactively identifies, reports, and recommends solutions to repair incompatibilities between your source database and an Oracle Cloud database or on-premises target of interest.

### **Classic Queue to Transactional Event Queues (TxEventQ) Online Migration Tool**

Advanced Queuing (AQ) is a key feature of the Oracle Database used to build application workflows using events. Queues in the Oracle Database come in two flavors - Classic Queues and the new and improved Transactional Event Queues (TxEventQ). TxEventQ are Kafka-like and highly performant due to their persistent in-memory caching implementation.

Oracle Database 23ai introduces an online migration tool to migrate from AQ Classic Queues to the new TxEventQ. The database creates a new TxEventQ with aliased name and routes enqueues to it, while it dequeues drain messages from the existing AQ. After the messages are drained, the migration is complete and the TxEventQ takes the name of the AQ queue. The TxEventQ migration interface checks for compatibility and adaptability for migration of an AQ deployment, and can commit or roll back a migration after running some tests on TxEventQ.

Existing AQ customers interested in higher throughput queues and with Kafka compatibility using a Kafka Java Client and Confluent like REST APIs, can migrate easily from AQ to Transactional Event Queues (TxEventQ).

TxEventQ is Oracle's next generation messaging system that offers many benefits and features over Advanced Queuing (AQ), like scalability, performance, key-based partitioning, and Kafka compatibility with a Java client, TxEventQ natively supports JSON payload, which makes event-driven microservices/application writing easier in multiple languages - Java, JavaScript, PL/SQL, Python, etc.

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## **Cloud Premigration Advisor Tool for Source Database Migrations to Other Oracle Databases**

The Cloud Premigration Advisor Tool (CPAT) assists you with database migration, both on-premises and in Oracle Cloud. It assesses the characteristics of the source database for migration and determines whether the source database can be migrated successfully to another Oracle Database. The JSON output from CPAT can be read by tools and applications for further processing and reporting.

CPAT helps you to avoid incompatibility issues in migrations. It helps you save time and effort in planning your migration of on-premises and Oracle Cloud databases to Oracle Autonomous Database.

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