



# Optimizing Toll Transaction Processing with Oracle Cloud Migration and IT & Infrastructure Support

## PROBLEM STATEMENT:

The client needed to migrate its legacy toll transaction systems and infrastructure to Oracle Cloud Infrastructure (OCI) while ensuring minimal downtime. Additionally, they required 24/7 IT and infrastructure support for both Oracle and non-Oracle applications, covering security, compliance, database management, and system performance optimization.

## KEY CHALLENGES:

**01**

High infrastructure maintenance costs due to on-premises data centers.

**02**

Legacy system dependencies, requiring a non-disruptive migration approach.

**03**

Need for high availability (99.9% uptime) in toll transaction processing.

**04**

Ensuring data integrity and security compliance during cloud migration.

**05**

Upgrading Oracle Database and OS before migration.

## SOLUTIONS PROVIDED:

### Lift & Shift Migration to Oracle Cloud Infrastructure (OCI):

- ⦿ Migrated on-premises application servers and databases to OCI without requiring a complete redesign.
- ⦿ Converted legacy systems to OCI-supported Virtual Machines (VMs) and Bare Metal (BM) servers.
- ⦿ Deployed a Network File System (NFS) in OCI for application-related data sharing.

### Oracle Database & OS Upgrade:

- ⦿ Upgraded Oracle Database before migration.
- ⦿ Performed OS upgrade to ensure compatibility with OCI.
- ⦿ Implemented backup and restore methodologies for minimal downtime.
- ⦿ Conducted post-migration validation to ensure seamless data access and application connectivity.

### Oracle GoldenGate Implementation & Database Support:

- ⦿ Implemented Oracle GoldenGate for real-time data replication, ensuring high availability and disaster recovery.
- ⦿ Provided ongoing Oracle Database support for performance tuning, patching, and issue resolution.

### 24x7 IT & TOCC Support Expertise:

- ⦿ 24/7 monitoring & IT support for toll processing infrastructure.
- ⦿ Real-time incident resolution to prevent service disruptions.
- ⦿ Help desk services for IT-related issues, including root cause analysis and proactive problem prevention.
- ⦿ User training and knowledge transfer for both Oracle and non-Oracle systems.

## KEY BENEFITS:

40% reduction in IT infrastructure costs by moving to OCI.

Seamless migration with 99.9% uptime, ensuring uninterrupted toll transactions.

20% improvement in system performance, leading to faster toll transaction processing.

Strengthened security & compliance, ensuring regulatory adherence and reduced vulnerabilities.

Efficient IT support & proactive monitoring, minimizing downtime and improving service quality.