



Customer Journey - Malabar Developers

Background:

Industry Vertical: Real Estate & Construction

Malabar Developers (P) Ltd., is the flagship housing development wing of the Malabar Group which enjoys a prominent position in the top echelons of the business world in India. Since inception, they have been reliably delivering highly innovative living spaces with outstanding quality in the form of premium villas, apartments and commercial projects that are spread across India and abroad. Mall of Travancore, the first Green Shopping Mall in India, is their prestigious project in Trivandrum, Kerala.

Customer Goals:

Malabar wanted to migrate their commercial website of Mall of Travancore from on-premise to a scalable infrastructure in AWS. As this was a live website, rich in content and consistently used by its viewers they wanted to achieve:

- **Infrastructure Scalability & Performance**

- High Availability Architecture
 - Minimal Response time & Speed

- **Security Enhancement & Maintenance**

- Security Hardening
 - Automatic Disk & Database backup strategy
 - Monitoring & Alerting System - Cost & Incidents

- **Migration Goals**

- 100% Data integrity
 - RTO - As minimal as possible
 - RPO - As minimal as possible

Solution:

We have created highly scalable architecture in AWS in Pay as you go model with increased performance strategies to deliver the maximum user experience. Newly created infrastructure was undergone performance and load testing by various tools to ensure everything was working as expected before we step into the migration process.

Our Solution was focused to ensure best practices are being followed to eliminate any substantial risks of data and security.

Also, our solution was automatically taking care of backup and monitoring activities and sending logs. The alerting solutions are planned to monitor several data points and notify users in case of any unplanned incidents.

Migration strategy was designed to attain a slow transition focusing to mitigate business continuity risks like data integrity issues, application unavailability, etc. We have used various tools like DMS, CloudEndure etc for a smooth and hassle-free migration of the live application.

Technologies used: Node.js, Vue.js, Mysql, Nginx

AWS tools used: Ec2, RDS, ELB, DLM, Cloud Watch, S3, Route 53

Performance Testing Tools: Apache WorkBench, Jmeter

Migration Tools: DMS, Cloud Endure

Results:

- The web application was migrated to an auto-scaling infrastructure where the client was only paying according to the traffic he receives.
- Automated maintenance activities - backup, monitoring & alerting
- Achieved 100% data integrity, RTO & RPO less than 5 minutes