

# Craft Silicon enables seamless cloud migration and resilient disaster recovery with Google Cloud



## Client profile

Craft Silicon, headquartered in Nairobi, is a global fintech company delivering banking, microfinance, mobile and payment solutions in over 30 countries. Serving more than 300 organizations, 254 in Africa, Craft Silicon processes over \$5.5 billion annually and one million transactions daily, driving digital transformation at scale.

Craft Silicon faced significant challenges with latency and scalability in their existing environment, which impacted their ability to roll out new features and constrained overall business growth. To address these issues, the company was looking for an efficient and scalable cloud infrastructure that could enhance customer-service availability in India.

NTT DATA enabled Craft Silicon's smooth migration from on-premises to Google Cloud Platform (GCP), with zero downtime. Our solution included setting up their complete infrastructure, database replication, disaster recovery across regions, and CloudOps for end-to-end cloud management. The staging and disaster-recovery environments were delivered in under three weeks to meet the organization's deadlines.



Our decision to partner with NTT DATA for migrating our environment from on-premises to Google Cloud Platform has been nothing short of transformative. The seamless transition, expert guidance and unparalleled support we received from NTT DATA made this migration a resounding success. They truly exceeded our expectations, and we couldn't be happier with the results."

**Madhesh NG**, IT Manager, Craft Silicon Pvt. Ltd.

## 100%

uptime achieved  
during migration

## 1M+

daily transactions  
now supported

## 20+

hours saved monthly  
using automation  
accelerators

## 3 weeks

to go-live for staging  
and disaster recovery  
environments

## Business need

Craft Silicon faced infrastructure performance challenges that limited growth and service delivery, including:

- **Latency and scalability issues:** Their existing cloud environment couldn't handle growing workloads efficiently.
- **Delayed feature releases:** Slow deployment cycles hindered innovation and time to market.
- **Regional service gaps:** Limited infrastructure impacted customer service availability in India.

## Solution

NTT DATA assisted Craft Silicon in migrating their workloads from on-premises infrastructure to Google Cloud Platform (GCP). This involved setting up the foundational GCP environment and building the necessary infrastructure to host their applications and databases. We also designed a disaster recovery (DR) solution and configured infrastructure to replicate databases from their on-premises data center in Mumbai to GCP. In addition, we implemented CloudOps to enable proactive monitoring and alerting, enabling the continuous availability of infrastructure and applications.

External user requests were directed to the web layer, where the web server, deployed on Google Compute Engine, connected to the application layer hosting the app server. The application layer was seamlessly integrated with the database layer, using MS-SQL databases hosted on GCP. Continuous replication was established between the on-premises data center and GCP for both the MS-SQL database and the file server. In the DR setup, user requests were routed through the Google Cloud Load Balancer (GLB) to the application layer on Google Compute Engine, strengthening reliability and failover readiness.

## Outcomes

Partnering with NTT DATA gave Craft Silicon access to specialized cloud expertise, structured methodologies and proven best practices tailored to financial services. Our collaborative approach included a thorough assessment of their existing systems, identifying potential risks and designing solutions that aligned with their scalability and compliance requirements. We ensured their teams had the knowledge to manage and optimize their new cloud environment after the migration.

Beyond the technical implementation, NTT DATA provided continuous strategic support to optimize the infrastructure for long-term performance and reliability. Our CloudOps framework introduced proactive monitoring, automated alerting and consistent health checks, building a foundation for operational excellence. This partnership empowered Craft Silicon to improve service delivery, accelerate innovation and position themselves for future growth with confidence.

Benefits of our approach included:

- **Zero downtime:** The migration was completed with an efficient infrastructure setup, ensuring uninterrupted services.
- **Solution delivered in three weeks:** The staging and disaster recovery environments were implemented within three weeks.
- **Client-readiness:** A quick setup enabled Craft Silicon to meet their clients' delivery timelines.
- **CloudOps excellence:** We provided expert consultation, seamless deployment and comprehensive cloud management for sustained performance.
- **Business continuity:** Application and database disaster recovery were established in a separate region to safeguard against regional or global failures.

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