

## CASE STUDY

# Project Monarch: Modernizing and optimizing a multi-database ecosystem

The client's existing on-premises database server ecosystem, and the applications reliant upon them, had significant performance issues, and were costly to scale. Moreover, the servers' physical location made it challenging to address scalability, robust disaster recovery and backup resiliency. CGI envisioned a solution involving migrating the databases and the applications to a cloud-based infrastructure to overcome these challenges.

## Opportunity Profile

The existing infrastructure was end of life, and much of the equipment and software was no longer supported by vendors. The migration project involved multiple hosted databases and associated applications that provided access to thousands of users across various local, national, and international customers.

The project presented a significant opportunity to modernize the client's applications to meet their evolving needs. The move to Oracle Cloud Infrastructure (OCI) also provided an opportunity to significantly increase performance, reduce costs, and enhance end-user experience.

Additionally, the client's private data centre was scheduled to close in 2022, making the migration project critical to ensure continued data availability and uninterrupted business operations.

## Proposed Solution

The proposed architecture involved 135 Oil & Gas client organizations utilizing 7 mission-critical applications – hosted on OCI. The clients' business requirements included IP 30, cloud applications, disaster recovery, scalability, and an on-demand model for development, testing, and deployment. The outcome expected was performance improvements, cost savings and improved stability.

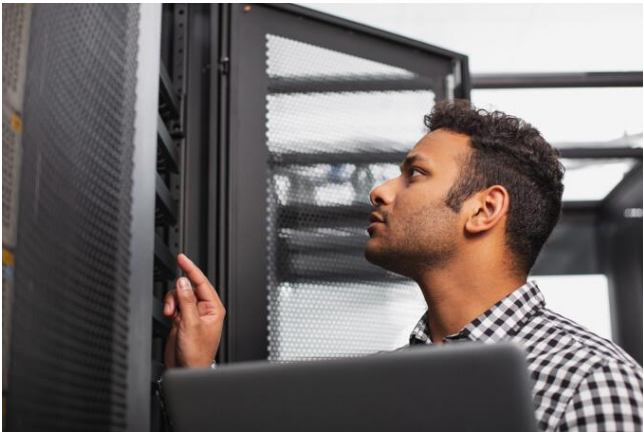


## Solution Benefits

- Performance increase
- Significant Cost Savings
- Increased DR
- Increased Resiliency
- Enhanced Security
- Improved EU Experience
- Improved Stability

## What happened?

It was a massive state-of-the-art project that required the coordination of multiple local teams and expertise in cloud infrastructure, migration and database management. The project involved the migration of a significant amount of data and applications to a modern cloud-based infrastructure, with minimal disruption to clients' operations. The successful completion of this project demonstrates CGI's commitment to delivering cutting-edge solutions to its clients and staying at the forefront of technology.



## Value Delivered

The migration to OCI provided a comprehensive solution that met all of these requirements while also ensuring data availability, performance improvements, and robust backup and disaster recovery capabilities. The new cloud-based infrastructure also provided greater flexibility for scaling resources up or down based on the client's changing needs and allowed for cost savings through improved efficiency and reduced hardware and software costs. Overall, the proposed infrastructure provided a modern, scalable, and cost-effective solution that met the clients' evolving needs and ensured continued success in the Oil & Gas industry.

- 8x performance gain for certain processes
- 70% cost reduction per annum
- Critical disaster recovery (DR) with an automated backup process, leveraging optimal object storage and efficient file storage<sup>1</sup>
- Automated server security hardening and patching for the entire cloud infrastructure
- Enhanced options for secure data encryption, including two-factor authentication.
- Automatic scaling of VMs to handle peak workloads in real time
- 24/7 performance and external threat monitoring

### Footnotes

<sup>1</sup> Data stored in another centre.

**“In addition to the operational cost savings and performance increases, every dollar spent on cloud consumption add to further cost savings in the form of redemption benefits on Oracle License support and maintenance!”**

**Jag Brar**

Director Consulting Expert, CGI

## About CGI

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