Enhancing Performance: Data Centre Migration, Database & App Upgrades for a Healthcare Client

A healthcare provider was seeking assistance to migrate their data centre and enhance their database and application performance. They were facing challenges with their existing data centre infrastructure, which impacted their database performance and availability. CGI was engaged to help streamline their infrastructure and improve their database performance.
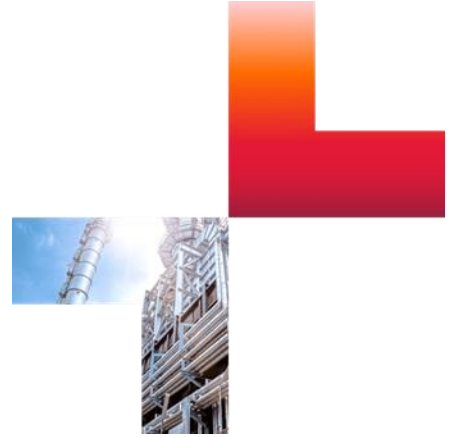
Challenges Before Turning to CGI

The client turned to CGI as they were faced with legacy hardware, middleware, and infrastructure to support this health system and were looking to transform and upgrade those components of the system. Upgrading and modernizing the system benefitted not only the client, but the health system end users (doctors and clinicians who rely on timely receipt of data to support the health needs of the citizens).

What CGI Did

CGI enlisted our regional team of experts to build two datacentres in under 24 months. While driving this bold & innovative digital transformation, we to accomplished the following:

- Created 11 new Oracle database environments and migrated databases from old to new data centres using expdp/impdp and GoldenGate with database sizes varying from 20TB to 40TB
- Database migration from T5 SuperCluster to M8 SuperCluster
- Grid Infrastructure upgrade to 18c and Database migration from Oracle 12.1 (standalone databases) to Oracle 12.2 (Multi-tenant Databases)
- Implemented Recovery Catalog and scheduled separate RMAN backups for Standby and Production databases instances
- Installed and configured OEM (data guarded) for database and application monitoring

Managed Database and Consulting Services

CGI has created a customizable suite of service offerings that cater to the design, implementation, maintenance, and management of intricate Database platforms. As your requirements differ, we offer the flexibility to choose from a variety of offerings that complement your on-premises and/or cloud-based Oracle and/or Microsoft Azure Database platforms.

Our services include both Managed and Consulting (Project) options, depending on your needs.

Why CGI Database Services?

- Cost Management
- Asset Efficiency
- Improved End-User Experience
- IT Workforce Efficiency
- Risk Management

- Regular DR testing by switching over from Production to DR site every 6 months
- Grid Infrastructure upgrade from 18c to 19c
- Database upgrades from 12.2 to 19c using autoupgrade
- Custom shell scripts for semi-automated database refreshes
- Managing databases for supporting WebLogic
- Transparent Application Failover (TAF) implementation for Weblogic

A total of 80 database administrators across the Western Provinces are available at any time to support the client.

Key Benefits Delivered to Our Client

- 24x7 availability, ensuring data is readily accessible
- Enhanced cybersecurity features with Oracle Wallets
- Disaster recovery: Dual independent offsite backups, leveraging servers in Kamloops and Calgary, which eliminate the possibility of data loss
- Reduced downtime
- Significantly more automation, increasing the productivity & reliability of DBAs and reducing manual intervention requirements

"I am extremely proud of the entire CGI team in helping transform such a large, complex system while transitioning the services from another provider. The work is a testament to the commitment of the entire CGI team to drive an innovative solution, leveraging new infrastructure to drive efficiencies for the client."

Ryan Bayne, PMP
Director, Consulting Services, CGI

About CGI

Insights you can act on

Founded in 1976, CGI is among the largest IT and business consulting services firms in the world.

We are insights-driven and outcomes-based to help accelerate returns on your investments. Across 21 industry sectors in 400 locations worldwide, our 90,250 professionals provide comprehensive, scalable and sustainable IT and business consulting services that are informed globally and delivered locally

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