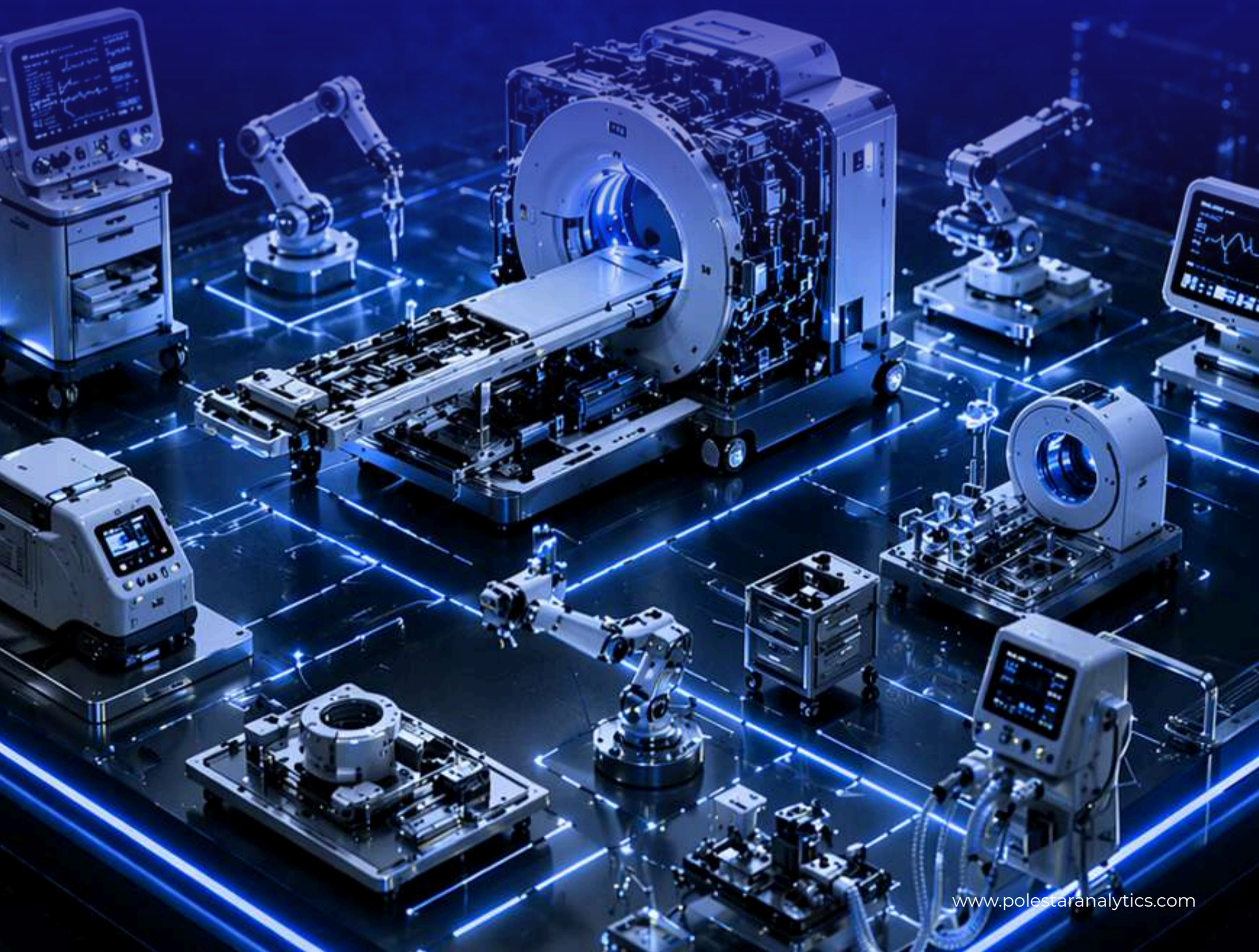


Optimized Multi-Cloud
Infrastructure & Reduced
Operational Costs for

The GCC of a Global Healthcare Manufacturer



Client Overview

The client is the **Global Capability Center (GCC)** of a **leading global healthcare appliances manufacturer**, responsible for managing enterprise applications, infrastructure operations, and system reliability across multiple regions.

As the organization scaled, the GCC inherited a fragmented **multi-cloud landscape spanning AWS and Azure**, with inconsistent infrastructure setups, limited architectural standardization, and rising operational costs. Frequent system failures, outdated application versions, and security vulnerabilities further impacted performance and business continuity.

Despite multiple tools and environments in place, the absence of a unified infrastructure strategy and automation framework made deployment, monitoring, and optimization increasingly complex and reactive.

To address these challenges, the client partnered with **Polestar Analytics** to design and implement a **standardized, automated, and secure multi-cloud infrastructure ecosystem**, bringing greater control, scalability, and cost efficiency to GCC operations.



Key Challenges

As the client expanded its cloud infrastructure and application landscape across AWS and Azure, several structural and operational challenges began to surface.

Lack of Standardized Infrastructure & Architecture

- No defined infrastructure blueprint or cloud architecture strategy
- Limited visibility into application configurations and dependencies
- High dependency on manual interventions for environment setup

Multi-Cloud Complexity (AWS & Azure)

- Inconsistent setup across cloud platforms
- Challenges in provisioning, scaling, and maintaining environments
- Inefficient resource utilization leading to cost overruns



Key Challenges

System Instability & Downtime

- Frequent website outages and system failures
- Lack of proactive monitoring and health check mechanisms
- Reactive issue resolution impacting business continuity

Legacy Systems & Versioning Gaps

- Applications running on outdated versions
- Lack of structured patching and upgrade cycles
- Increased risk of compatibility and performance issues

Security Vulnerabilities

- Multiple security loopholes across infrastructure layers
- Lack of automated compliance and monitoring frameworks
- High exposure to potential threats and system breaches

Key Challenges

Cost Inefficiencies & Redundant Infrastructure

- Unoptimized infrastructure leading to unnecessary expenses
- Redundant resources and underutilized assets
- No structured cost governance or optimization framework

Legacy Systems, DB Versioning & Migration Challenges

- Outdated application and database versions
- Complex database migration across environments, increasing operational complexity
- No structured upgrade or version control strategy

Database Performance & IOPS Limitations

- Suboptimal IOPS impacting performance
- Limited scalability of compute and storage
- Frequent database downtime and instability



Solutions Implemented

Polestar Analytics partnered with the GCC to design and deploy a standardized, automated, and secure multi-cloud infrastructure framework, enabling scalability, cost efficiency, and operational stability.

Standardized Multi-Cloud Architecture

Designed and deployed a unified infrastructure framework across AWS and Azure to ensure consistency, scalability, and governance.

Infrastructure Automation with IaC

Implemented Terraform-based infrastructure-as-code to automate provisioning and enable repeatable, error-free environment setup.

CI/CD-Driven Deployment Framework

Established automated CI/CD pipelines for seamless, single-click application deployment and faster release cycles.

Proactive Monitoring & Reliability Enablement

Introduced automated health checks and monitoring systems to detect failures early and improve overall system stability.

Solutions Implemented

Database Modernization & Version Upgrade

Upgraded database servers to supported versions and aligned them with standardized configurations and platforms.

IOPS Optimization & Compute Scaling

Enhanced IOPS capacity and optimized compute tiers to improve database performance, stability, and responsiveness.



Security & Patch Automation

Remediated vulnerabilities and implemented automated patching and compliance controls to strengthen the security posture.

Infrastructure Optimization & Cost Rationalization

Performed infrastructure cleanup, eliminated redundancies, and optimized resource utilization to reduce overall cloud costs.

Business Impact

25%

reduction in cloud infrastructure costs, through resource optimization and elimination of redundancies

40%

reduction in system failures and downtime, improving application availability and continuity

60%

faster deployment cycles, enabled by CI/CD and infrastructure automation

30%

improvement in system performance, driven by standardization and upgrades

50%

reduction in security vulnerabilities, strengthening compliance and risk control

35%

improvement in infrastructure visibility, enabling proactive monitoring and faster decisions

About

Polestar Analytics

Polestar Analytics is a leader in Data, Analytics, AI, and Enterprise Planning helping organizations to unlock intelligent outcomes through our proprietary products like TPlatform, accelerators, and services. Our expertise spans data engineering, data science, agentic and generative AI, and advanced planning for CPG/Retail, Pharmaceuticals, Manufacturing, IT/ITeS, and Financial Services.

[Reach out to us today!](#)