

Case Study

# MANAGE DATA AND EXECUTE WORKLOADS WITH GOOGLE CLOUD'S DATA SCIENCE PAAAS

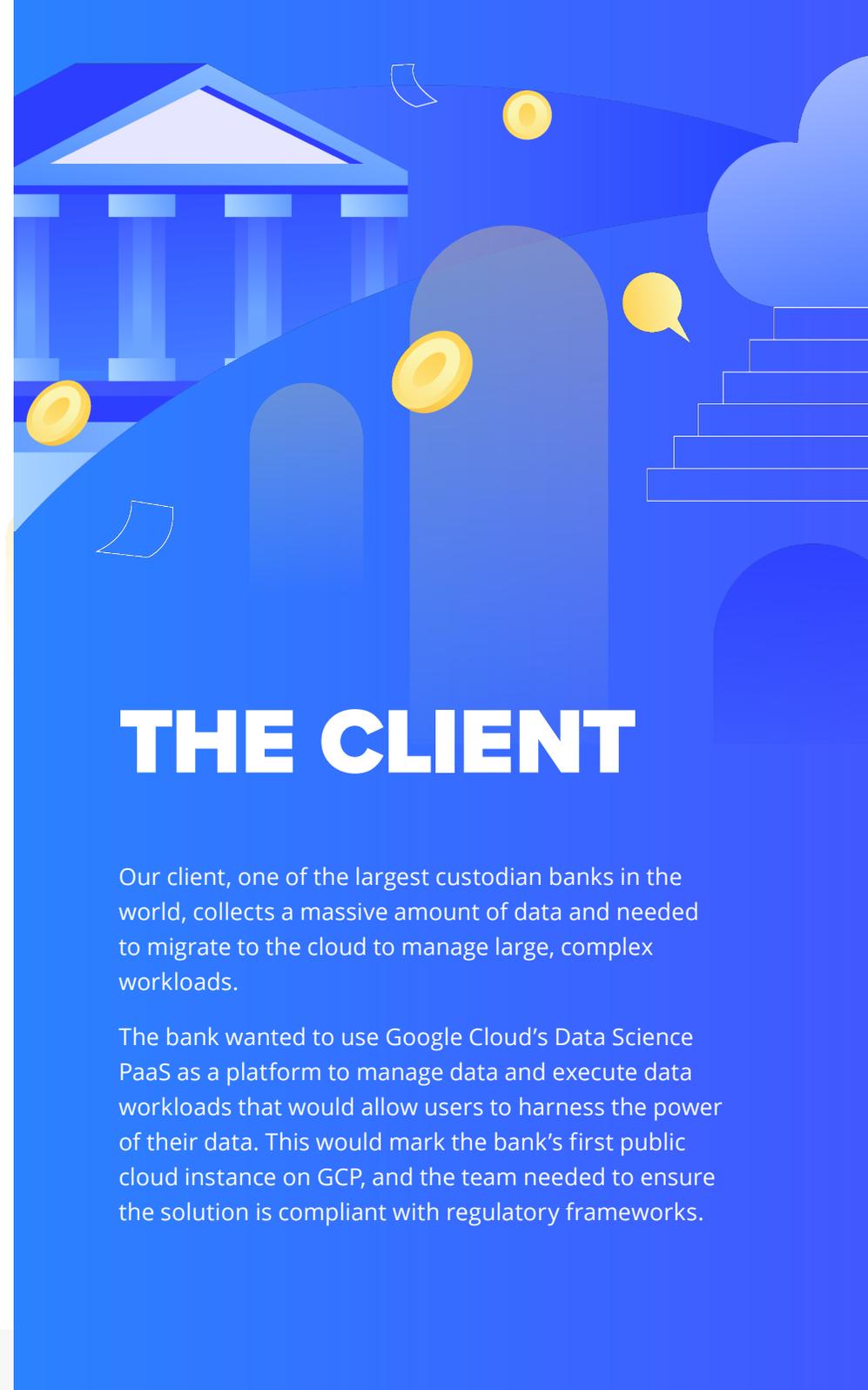


softserve

***Learn how SoftServe modified the platform to meet regulatory guidelines for a bank's migration to a public cloud.***

Your data workloads are becoming more complex and need to be managed in the cloud. However, in the finance sector, you need to be extra cautious with sensitive data when migrating to a public cloud platform such as Google Cloud's Data Science PaaS.

Tweaking the platform to enhance security and encryption allows your organization to benefit from cloud-based data management while maintaining regulatory compliance.



# THE CLIENT

Our client, one of the largest custodian banks in the world, collects a massive amount of data and needed to migrate to the cloud to manage large, complex workloads.

The bank wanted to use Google Cloud's Data Science PaaS as a platform to manage data and execute data workloads that would allow users to harness the power of their data. This would mark the bank's first public cloud instance on GCP, and the team needed to ensure the solution is compliant with regulatory frameworks.

# THE CHALLENGE

Migration included setting up Google Cloud data infrastructure, building predictive models and machine learning algorithms in the bank's perimeter, generating information and insights from data sets, and identifying trends and patterns. **In the process, SoftServe discovered that:**



Google Cloud Identity Platform needed to be enhanced for compliance



The process to lockdown labs did not provide the end-user access to multiple labs at the same time



Policy-based access control was unable to govern permissions according to regulations

# THE SOLUTION

Using an infrastructure-as-code (IaC) approach in the Terraform Enterprise environment, SoftServe developed GitLab pipelines with additional security check-ins to extend current deployment functionality without significant architecture changes.

The team delivered an automated infrastructure on the cloud that serves as the heart of the bank's data management system.

### The framework includes:



Cloud security health checks



Policy-as-code enforcement



Encryption of data in flight and at rest based on compliance framework



Vulnerability management



Threat detection

# THE OUTCOME

The solution improved security control with appropriate delegation of rights and increased flexibility in resource configuration and footprint. This ensures optimal performance, reduces costs, and improves scalability when designing and deploying data systems and applications. Data science teams can now get the required resources in a matter of hours rather than waiting weeks.

The platform was integrated with the client's self-service portal to further reduce operational costs.

After the conclusion of the six-month project, SoftServe continues to support the GCP platform and assess other ways the bank can improve the ways in which it utilizes its data.

**LET'S TALK** about how SoftServe can customize your data management to foster collaboration and increase operational efficiency.

# TECH STACK



# About SoftServe

SoftServe is an IT consulting company with U.S., Europe, and Latin America delivery centers. We transform and optimize how enterprises and software companies do business. More than 13,000 associates provide engineering talent, innovation, and cloud transformation. Our end-to-end approach assures modernization, quality, and speed across the banking, fintech, financial services, insurance, healthcare, retail, energy, and manufacturing verticals.

## Contacts

### **NORTH AMERICAN HQ**

201 W 5th Street, Suite 1550  
Austin, TX 78701  
USA +1 866 687 3588 (USA)  
+1 647 948 7638 (Canada)

### **EUROPEAN HQ**

30 Cannon Street  
London EC4 6XH  
United Kingdom  
+44 333 006 4341

[info@softserveinc.com](mailto:info@softserveinc.com)  
[www.softserveinc.com](http://www.softserveinc.com)

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