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Migrating Legacy Infrastructure to AWS Cloud for a 350-year-old Private Bank

 Case study

An  **RPG** Company



Overview

Upgrading a wealth management platform

Our client is a British private bank founded in 1672, providing banking services, including loans, mortgages, savings accounts, and tax and estate planning. The client has an all-in-one wealth management platform that helps financial advisors save time, strengthen customer relationships, and bring more business.

We helped the client create pipelines for building and deploying applications into the Kubernetes cluster without manual intervention using AWS services.



Challenges

Outdated platform and environmental inconsistencies

- Unreadiness: Obsolete banking platform making it hard to keep pace with the evolving banking industry.
- Slower time to value: Complex application releases (difficult rollout and rollback) and tool maintenance lead to slower time to market for new services and features.
- Infrastructure challenges: Environmental inconsistencies across development, stage, and production environments. Low application availability and scalability.
- Inadequate documentation: No documentation and poor version control.



Solution

Efficient method to build and deploy

Our solution focused on the following:

Consult –

- Consult on the technology stacks and new ways of working
- Assist the Operations Support team with best practices, R&R, process workflow, and more
- Help the team evolve into the new cloud and container world

Build –

- Build a strategic roadmap for cloud and container adoption, including K8s implementation, security, and scaling
- Automate the automation interface with the DevOps team and pave the way for onboarding online and mobile banking applications onto the cloud and container world
- Create all digital application pipelines into AWS using code build and code pipeline service to minimize CI/CD maintenance
- Adopt EaC design, with toolset choices
- Enable data persistence using the system manager service in AWS to store app credentials that were injected into applications deployed in EKS cluster resources

Operate –

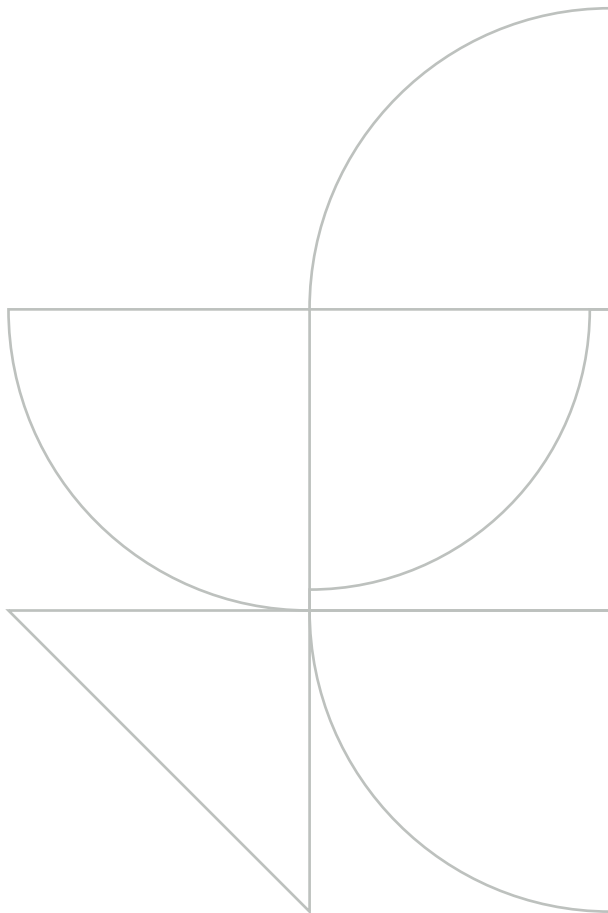
- Provide developer, operations, and infrastructure support
- Ensure broad base adoption of the new platform
- Support IaC through the SDLC
- Use AWS EKS service to achieve environmental consistency, high application availability, zero downtime, and easy application scalability
- Store all the environment infrastructure state files in the S3 backend

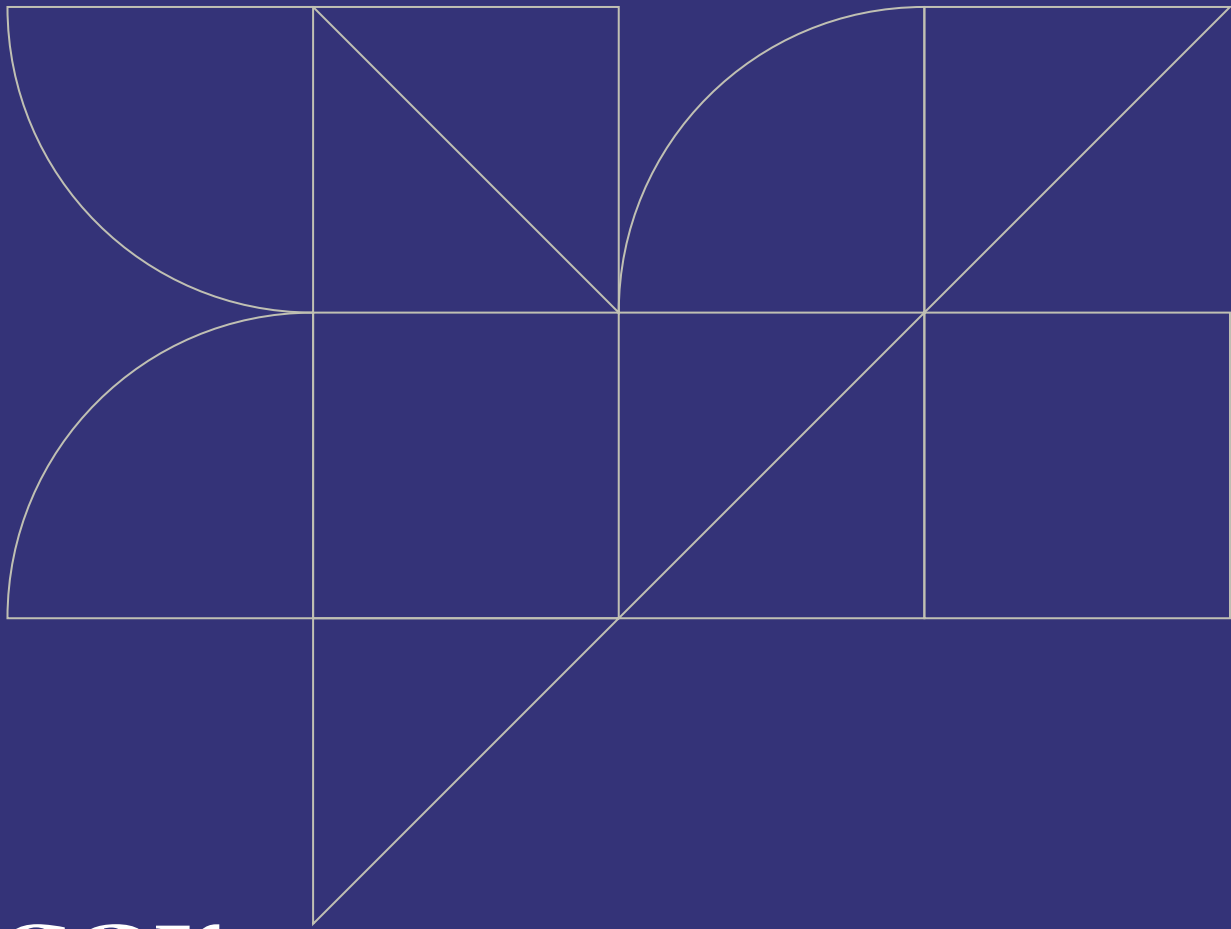


Impact

Environmental consistency, reduced costs, and high application availability

- Achieved a 28 percent reduction in OpEx
- Consolidated costs under one platform
- Ensured 36 percent faster time to market with reduced patching time activity
- Enabled more than 90 percent of the system to be built with infra and config as code
- Improved consistency of the environment states
- Streamlined tool usage and reduced maintenance cost
- Reduced manual effort of triggering application pipelines and deployment





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