Modernizing IT Landscape for a US-based Finance Major
Client

The client is a US-based finance major serving as a global provider of equity, fixed income, and hedge fund stock market indexes. It also deals in multi-asset portfolio analysis tools, and environmental, social and governance products.

Business Challenges

- Limitations in the IT landscape due to existing infrastructure and applications architecture
- High maintenance and operational efforts in managing application workloads
- Scalability issues while dealing with high-memory and resource-intensive applications
- High latency and performance issues with applications/ databases
- High cycle time from development to QA to production
- High dependency on repositories, automation scripts, and on-premise tools
- Use of disparate tools and technologies across the organization

Solution Highlights

- Designed a re-usable approach towards application and infrastructure migration leveraging Azure Cloud, along with a scalable DevOps ecosystem
- Transitioned from monolithic applications to microservice-based architecture using 12-factor principles
- Enforced security guardrails on infrastructure and application using firewalls, security groups, policies, hardened container images, role-bindings, etc.
- Developed a minimum-intervention DevSecOps pipeline with automated SAST, DAST, credential, and image scans to ensure a secure and robust deployment
- Achieved zero downtime deployment and high availability using inbuilt and custom update and backup strategies
- Created standardized, centralized, and automated infra and monitoring alerts
- Implemented Service Mesh for application communication and distributed traffic to PODs with least-connection and load
- Automated feed generation and processing using custom scripts and schedulers
- Achieved one-click deployment and seamless rollback
Business Benefits

| 35% savings in operation and administration cost | High availability and improved security posture | Efficient provisioning of resources for setting up multiple environments in minimal time |
| Effective use of resources using scale up/down of services on demand | Faster release cycles with end-to-end automated CI/CD pipelines | Reduced TCO and increased productivity and quality |

Technologies Used

- Azure Cloud Platform: Azure kubernetes service, App Gateway, Azure VWAN, Cosmos DB
- DevOps Tools: Azure DevOps, Terraform, SonarQube, Checkmarx

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