nClouds | AWS Case Studies

Management Consulting Firm

Benefits Summary

Security and Disaster Recovery Capabilities

Centralized Infrastructure Components

Cost-Efficient End Product

About the Firm

This management consulting firm specializes in profit improvement and liquidity initiatives. Based out of North Carolina, the team has built a supply chain analytics and planning tool.

This case study is the second in a sequence of case studies designed to show the continuing cloud journey on AWS.

Industry

Software

Location

United States

Featured Services

DevOps, Managed Services, Data & Analytics, Migration, Application Modernization, Containerization, Serverless, Security

CHALLENGE

Need for Cloud Security and Serverless Architecture

The firm faced several technical challenges before becoming a client of nClouds. One of the main issues was cloud security, which required a robust and comprehensive approach to protect sensitive data. Additionally, the firm needed to centralize all its infrastructure components to simplify its operations and management processes.

The combination of AWS and nClouds' expertise and experience provided a **cost-effective solution that allowed the firm to improve performance, efficiency, and scalability while reducing costs and improving overall security.**

aws | **nClouds**℠

Why AWS and nClouds

Amazon Web Services (AWS) provides a range of services that allow businesses to build and scale their applications quickly and securely. By choosing AWS, the management consulting firm could continue to work with nClouds to leverage the power and scalability of the cloud to meet its business needs.

aws PARTNER Premier Tier Services

As an AWS Premier Tier Services Partner, nClouds has extensive experience and expertise in building and managing complex cloud environments on AWS.

This made nClouds an ideal partner for the firm, as it could provide the necessary guidance and support to help the firm design and implement a solution that met its specific requirements.

Overall, the combination of AWS and nClouds' expertise and experience made them an ideal choice for the management consulting firm, providing a comprehensive and cost-effective solution that allowed it to improve its performance, efficiency, and scalability while reducing costs and improving overall security.

Management Consulting Firm Leverages Several Amazon Services

- **AWS CodeSuite –** Provides a collection of fully managed continuous integration and continuous delivery (CI/CD) services enabled by AWS

- **Amazon CloudWatch –** Provides monitoring and log management

- **Amazon Elastic Container Service (Amazon ECS) –** Enables the management consulting firm to run and scale containerized applications on AWS easily

- **Amazon Fargate –** Enables the firm to run containers without having to manage servers or clusters

- **Amazon Lambda –** Enables the firm to run code without provisioning or managing servers. It only pays for the compute time consumed (There is no charge when code is not running.)

- **AWS Organizations –** Provides policy-based management for multiple AWS accounts

- **Amazon RDS –** Manages time-consuming database administration tasks, including backups, software patching, monitoring, scaling, and replication

Management Consulting Firm's Solution Stack Includes Additional, Essential Third-Party Tools

- **Datadog** – A monitoring and analytics tool to determine performance metrics and event monitoring for infrastructure and cloud services (The software can monitor services such as servers, databases, and tools.)

- **OpenVPN Access Server** – A full-featured SSL VPN software solution to provide fine-grained access control of the infrastructure

- **Terraform –** Enables the firm to safely and predictably create, change, and improve infrastructure

- **MS SQL Server –** A relational database management system (RDBMS) developed by Microsoft

nClouds' Solution Architecture for the Management Consulting Firm

To address the firm's technical challenges, nClouds utilized AWS services to provide a comprehensive solution. This solution included AWS CodeSuite, Amazon Elastic Container Service (ECS), and AWS Fargate.

Amazon CodeSuite

AWS CodeSuite is a collection of fully managed continuous integration and continuous delivery (CI/CD) services provided by AWS. The suite includes a range of tools and services that helped the management consulting firm automate the software development lifecycle, from code building and testing to deployment and monitoring.

Amazon Elastic Container Service (ECS) and AWS Fargate

nClouds utilized Amazon Elastic Container Service (ECS) and AWS Fargate to implement a serverless architecture that allowed the management consulting firm to scale its workloads quickly and efficiently. This architecture provided a more streamlined and cost-effective approach to managing the firm's infrastructure, as it only paid for the resources they used.

Amazon RDS for SQL Server

The firm previously leveraged Microsoft's secure server to store all data in the backend. nClouds helped the management consulting firm with its migration project, where it separated everything into one account each and implemented multiple environments. For its RDS, the firm chose to use Microsoft's Sequel Server, which provided low maintenance costs through RDS and enabled multiregion and multiaccount backups. This allowed for enhanced security and disaster recovery capabilities for the firm.

High-Level Architecture Diagram
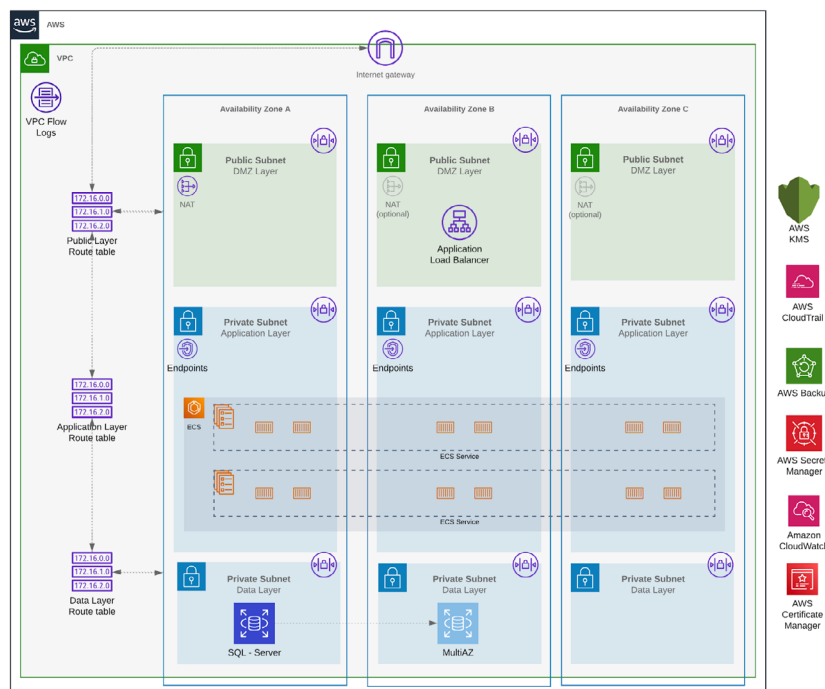
Interested in an AWS Well-Architected Framework Review?
Schedule a free AWS Well-Architected Assessment with nClouds to see how
you can apply architectural best practices to drive better business outcomes.

Increased Business Efficiency

Teaming with the management consulting firm, nClouds was able to bring several key benefits through AWS that increased business efficiency and solved the technical challenges.

Security and Disaster Recovery Capabilities

By leveraging Microsoft Sequel Server on RDS, the management consulting firm was able to achieve improved security and disaster recovery capabilities through multiregion and multiaccount backups, resulting in increased resiliency and protection of critical data.

Centralized Infrastructure Components

nClouds helped the firm centralize its infrastructure components on AWS and different accounts through Microsoft SQL Server and adopt a serverless architecture to streamline workflows and enhance scalability.

Cost-Efficient End Product

Because AWS enables organizations to only pay for the resources they use, the solution is cost-effective and streamlined.

ABOUT
nClouds

nClouds is a certified, award-winning provider of AWS and DevOps consulting and implementation services. We partner with our customers as extensions of their teams to build and manage modern infrastructure solutions that deliver innovation faster. We leap beyond the status quo.

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