Migrating Data Server to AWS Cloud

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About our client

2 of the biggest firms of Fintech came together to build a common Platform to serve the customers on a mutually created Platform. They intended to migrate its Web Application, which was currently hosted on an external DC network, to the AWS Cloud for future scalability and high availability.

They were looking for a partner with AWS expertise to assist them in migrating efficiently and with minimal downtime during this process, and they hired ACC to do so.

What is a common Mutual Fund Platform?

Non-financial transactions with mutual funds might be inconvenient for investors. Assume you've put money into five different mutual fund plans. If you want to modify your bank account information for purchase and sell transactions, you must send the necessary documentation along with a cancelled check to each fund house separately.

Similarly, you will need to file separate requests to the companies separately to amend your registered mobile number and/or e-mail ID because these two RTAs serve various mutual fund institutions. The shared mutual fund platform will streamline all transactions and servicing requests into a single process, reducing turnaround time dramatically. It would save the investors a lot of time, effort, and paperwork. And, once the platform supports mutual fund transactions, you'll be able to conduct all of your financial and non-financial activities in one spot.

Furthermore, you will have access to all reports on your holdings, transaction history, fund performance, capital gains statement, and other information from many fund houses on a single platform. SEBI anticipates that this improved user experience will aid in the mutual fund industry's penetration and growth.

What's in Store for the Company ?

With the purpose of migrating, it was only natural for the firm to investigate potential improvements to its existing IT infrastructure. Other restructuring opportunities discovered by the team were lower total cost of ownership, better infrastructure control, reduced operational complexity, and improved overall performance. The company may also improve scalability and update some resources that were nearing their end of life. Although the company might have continued to operate well with its on-premises data centre and traditional applications, the leadership team believed that the cloud would allow the company to achieve even more. erations.

ACC Solution

Our team worked closely with the start-up to gain a thorough understanding of their business goals, functional requirements, and systems.

ACC delivered a well-balanced, technically adept team to the project, which seamlessly integrated into the start-strategic up's roadmap.

ACC leveraged a variety of AWS services and cloud technologies for the company's modernization effort.

The company's solution must incorporate – at the most basic level.

- **Robust Security features**

The architects at ACC began by constructing a landing zone based on Amazon Web Services best practises.

The landing zone would serve as a starting point for networking, security, management, and governance.

Security measures such as identification and access management had to be included (IAM). AWS Key Management Service (AWS KMS) makes it simple to establish, manage, and control cryptographic keys across a number of AWS services and in your applications. As a result, KMS was utilised to encrypt data at rest and data in transit.

- **WAF Implementation**

AWS WAF is a web application firewall that helps protect your online applications or APIs from typical web exploits and bots that can cause downtime, compromise security, or waste a lot of resources. By allowing you to establish security rules that govern bot traffic and stop typical attack types like SQL injection and cross-site scripting, AWS WAF offers you control over how traffic reaches your applications.

- **DevOps & Cloud Native**

DevOps is a collection of cultural concepts, practises, and tools that increase an organization's capacity to rapidly provide applications and services. The principles of DevOps automation for agility, speed, control, and compliance were used.

- ## Efficient CI/CD Process

What is Continuous integration/continuous delivery (CI/CD) Pipeline?

A CI/CD pipeline is a set of steps that must be completed before delivering a new version of software. Continuous integration/continuous delivery (CI/CD) pipelines are a practise aimed at improving software delivery through the use of either a DevOps or a site reliability engineering (SRE) approach.

A CI/CD pipeline adds monitoring and automation to the application development process, particularly during the integration and testing phases, as well as during delivery and deployment.

Although each step of a CI/CD pipeline can be performed manually, the true value of CI/CD pipelines is realised through automation.

For each and every service that will be implemented in their infrastructure, ACC built Proof of Concept (POC) with some pre-defined CI/CD use cases in mind.

- ## AWS EKS

The Amazon Elastic Kubernetes Service (Amazon EKS) is a managed Kubernetes service that makes running Kubernetes on AWS and on-premises a breeze. Kubernetes is an open-source framework for automating containerized application deployment, scaling, and administration. Because Amazon EKS is certified Kubernetes-compliant, current Kubernetes-based apps will work with Amazon EKS

- ## Resilient Auto Scaling website

The client's databases were migrated by ACC experts to Amazon RDS, a relational database service that provides cost-effective, scalable capacity while automating time-consuming backend admin tasks.

The Benefits

The Platform now has cloud-optimized IT infrastructure and applications thanks to ACC's migration assistance, allowing the company to better serve its customers.

The company has now upgraded its deployment, staging, and production environments, as well as its underlying resources, to make them more resilient. Because the company has complete control over how its environments are deployed and managed, the IT team can easily refactor or modernize applications as needed in the future.

ACC, was also able to reduce IT costs while increasing platform redundancy, productivity, and scalability. Now, the company can better manage client relationships and take advantage of powerful AWS tools to improve performance.

Finally, the client has found an expert partner in our team who can assist the company in reaching its goals.

ABOUT ACC

ACC is an AWS Advance Partner with AWS Mobility Competency. Awarded The Best BFSI industry Consulting Partner for the year 2019, ACC has had several successful cloud migration and application development projects to its credit.

Our business offerings include Digitalisation, Cloud Services, Product Engineering, Big Data & Analytics and Cloud Security. ACC has developed several products to its credit. These include Ottohm – Enterprise Video and OTT Platform, Atlas API – API Management and Development Platform, Atlas CLM – Cloud Life Cycle Management, Atlas HCM – HR Digital Onboarding and Employee Management, Atlas ITSM – Vendor Onboarding and Service Management and Smart Contracts – Contract Automation and Management.

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