Application Modernization with AWS

Modernize your software products, drop commercial database dependencies, and drive business value

AWS provides a set of flexible services designed to enable organizations to rapidly and reliably build and deliver products using AWS and application modernization practices.

The benefits of migrating to Amazon Web Services (AWS) go beyond simple backup and storage. AWS empowers businesses to focus on core competencies and innovate faster.

Kubernetes is rapidly evolving, with frequent feature releases, functionality updates, and bug fixes. Additionally, AWS periodically changes the way it configures Amazon Elastic Container Service for Kubernetes (Amazon EKS) to improve performance, support bug fixes, and enable new functionality.

Brillio can help you modernize your software products on Amazon Aurora so you can drop old-guard commercial database dependencies, reduce costs, drive greater business value, and reach new customers with AWS.

Brillio helps with “As-Is assessment” of tools landscape to scale DevOps and head start with recommended set of tools & Scripts to create building blocks needed to scale.

Tightly coupled with insight platform with real-time status of entire delivery pipeline.

Benefits of engaging with Brillio for Application Modernization projects

- Brillio’s significant expertise across various technology stacks and experience of working on Amazon Aurora and implementing DevOps toolkit in various ongoing Brillio’s engagements
- Break free from commercial database dependencies and get customers to the cloud faster
- Amazon Aurora is built for the cloud and provides the security, availability, and reliability of commercial databases at 1/10th the cost
- With fully-managed resource provisioning, maintenance, and backups, you no longer have to worry about operational database management and can focus on driving greater business value for you and your customers

Tooling and Services for Application Modernization

- **Continuous Integration**
  - Automate building, testing, and deploying software with AWS CodePipeline, AWS CodeBuild, and AWS CodeDeploy.

- **Monitoring and logging**
  - Record logs and monitor application and infrastructure performance in near real-time using services like Amazon CloudWatch and AWS CloudTrail. Debug and analyze distributed applications with AWS X-Ray.

- **Infrastrucutre as code**
  - Use services like AWS CloudFormation, AWS OpsWorks, and AWS Config to provision, configure, and govern your AWS infrastructure.

- **Microservices**
  - Build and deploy a microservices architecture with containers or serverless compute by using Amazon EC2 Container Service or AWS Lambda.

- **Platform as service**
  - Deploy web applications without needing to provision and manage the underlying infrastructure and application stack with AWS Elastic Beanstalk.

- **Version control**
  - Host secure, highly scalable Git repositories in the cloud with AWS CodeCommit.
The Challenge:
To help in integration of DevOps tools for automating the on-premise and cloud. Also, setting up of continuous delivery model with minimal downtime.

About the client:
Leading American telecommunication company

Solution:
- Streamlined process leveraging existing tool
- Metrics based quality measurement
- Centralized code and deployment scripts
- Code coverage improved from 30% to 85%
- Deployment window drastically reduced from 6 hours to 1 hour

Tech stack:
- Fortify
- SonarQube
- Bitbucket
- JUnit
- Confluence
- JIRA
- Ansible
- Selenium
- Stack
- AWS
- Docker
- Kubernetes
- Jenkins

Benefits of modernization on AWS:
- Drive growth, retire legacy investments and improve your financial posture
- Decreased time to market
- Reduced release cycle
- Accelerate your migration to the cloud with a trusted provider
- Maximize the value of your existing investments

Why Brillio?
Brillio is an APN Advanced Consulting Partner and a leader in global digital business transformation. Brillio accelerates the enterprise transition journey to ‘digital first’ business with a suite of proprietary IPs and accelerators that leverage advanced technological capabilities of Intelligent Automation, Artificial Intelligence, and Cloud Analytics. Brillio’s experience of enterprise digital endeavors on AWS spans across Internet of Things (IoT), App modernization, Data lakes, SAP migration, Advanced Analytics, Modern Workspaces, and Data Center Migration.

Together with AWS Service Catalog, Brillio helps enterprise IT operations teams to bring in a secure, cost effective, scalable, and repeatable model of service delivery, revolving around a strong governance framework. With 2600+ experts worldwide, Brillio is the ideal partner for enterprises that want to quickly increase their core business productivity and achieve a competitive edge with the latest digital solutions.

About Brillio
Brillio specializes in leveraging emerging technologies like analytics, security, cloud, mobile, and machine learning. It uses this technology to create "sticky" new customer experiences, to achieve surprising cost efficiencies, and to quickly deliver innovative solutions. Working across different industries, Brillio has helped define digital transformation objectives and turn them into actionable market strategies.

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