



CASE STUDY

AI/ML and Analytics Enablement in AWS

Enabling custom integrated development experience for analytics and AI/ML in AWS



ABOUT ACCESS.IO

We offer Cloud Managed Services and DevOps Automation to improve agility and velocity of your business.

We are a cloud-native services company with clients in multiple geographies and industries. We specialize in cloud transformation, DevOps automation, managed services and cloud-native application development. With offices in USA and India, we empower organizations to transform and secure their IT infrastructure, scale up their operations, and manage customer workloads from our ISO 27000-certified Global Network Operations Centers (GNOC).

ABOUT KRISHIFY

Touted as the “Facebook for farmers,” Krishify is one of India’s biggest community of Farmers and Retailers.

Krishify is a start-up with the vision to empower farmers with technology and information digitalization. They use data and advance analytics to build a digital ecosystem for farmers and retailers.

Around 5.5 millions farmers across North India have onboarded this platform.

Headquartered in Gurugram, Haryana, India, the company is growing fast while attracting the likes of national media and potential investors.

THE CHALLENGE

Given their rapid growth, Krishify needed to quickly adopt AWS to empower their solution like any modern cloud-based applications. However, for the uninitiated, migrating to AWS was no walk in the park. They had to uncompromisingly address the following needs.

- Onboarding to AWS had to be done keeping in mind proper access control and separation of different types of workload.
- Following best practices had to be followed for cross-account integration between workloads and services across different accounts.
- Allowing a tightly controlled internet access for a few external services following the AWS recommendations.
- Building storage- and database-integrated analytics clusters, along side enabling AI/ML development and operations.

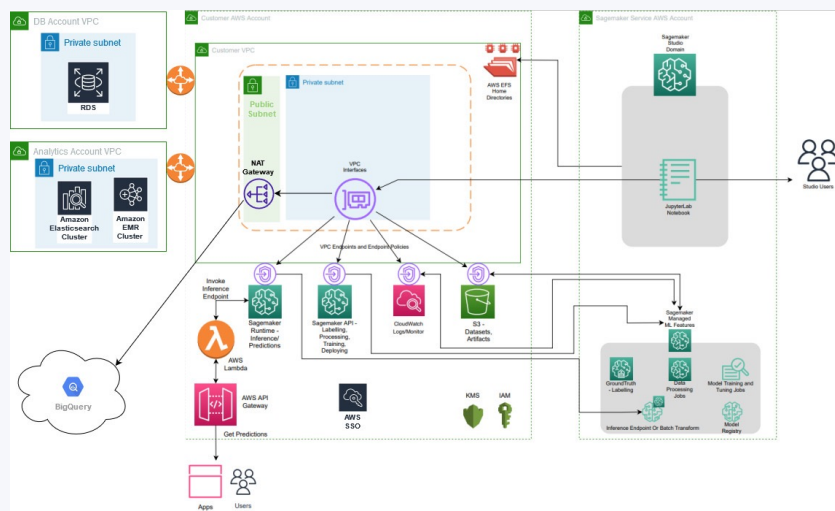
THE SOLUTION

Access.io delivered an analytics and AI/ML integrated development experience for Krishify.

They integrated various aspects like databases, storage, analytics clusters, external datawarehouses and managed ML ops, across multiple accounts with private access. They even facilitated access to external services over the internet too.

The following AWS services and features were used to help the customer in their integrated AI/ML/Analytics Experience:

- AWS Accounts, SSO, IAM
- AWS VPC, VPC Peering, Interfaces
- AWS Sagemaker and Components, Sagemaker Studio
- AWS EMR, RDS, ElasticSearch, DynamoDB, S3, EFS



THE BENEFITS



Multi-Account Workloads Integration

Multiple AWS Accounts, Well Architected Network topology, Security, Access Controls and SSO



Data and Analytics Services Integration

Single VPC integrated with Databases (SQL and NoSQL), EMR Cluster, ElasticSearch Cluster and Datawarehouse



AI/ML Development and Operations Integration

Multuser AI/ML development in JupyterLab fully Integrated with other services across organization