

## CASE STUDY

### Automated the AWS Architecture of a Leading Telecommunication Company using Terraform and Ansible



## THE CHALLENGE

The client specializes in messaging and mobility solutions. Their mobile solutions give customers an undisputed improvement in Visibility, Velocity, and Reach while upgrading levels of Standardization and Decentralization.

The client had their entire solution environment created manually.

Their biggest challenge and opportunity was to automate the manual steps on infrastructure and run them more as 'Infrastructure as a Code (IaC)'.

But they had the following challenges in front of them :

**Lack of expertise in using AWS services resulted in doubtful decisions.**



**The environment was not scalable.**



**Manual deployment of AWS infrastructure and application deployment for each new environment was time taking and error-prone.**



**Some packages fail to install on EC2 servers for unknown reasons.**



**Lack of proper development environment.**



## THE SOLUTION

After understanding the client environment and challenges, we have created an AWS Deployment Architecture suitable to their environment. Shared it with their team and took the following steps to solve their challenges:

01

Automated their AWS deployment architecture using Terraform code.

02

Installed and configured the servers using Ansible.

03

Provided properly configured Amazon workspaces for their day-to-day operations.

04

Guided them to use Global Accelerator.

05

Used Gitlab for Issue tracking, Continuous integration, and Continuous deployment pipeline features.

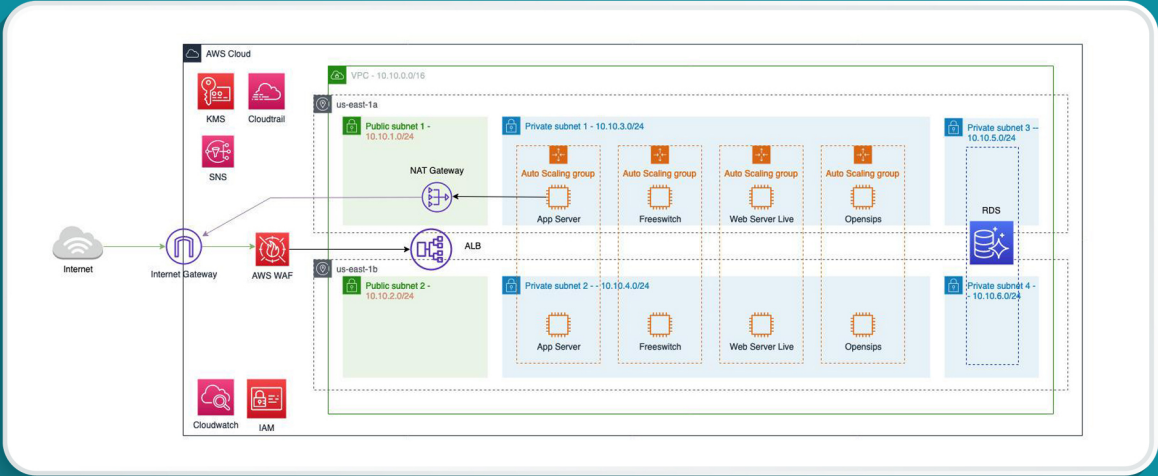
## KEY ASPECTS

- Fully automated Terraform code for dev and prod environment within a month.
- CI/CD pipeline for automated deployment.
- Created Ansible automation for EC2 configuration within 5 days.
- Enhanced their day-to-day operations through Amazon workspaces
- Solved their support tasks within 24 hrs.

# TECHNOLOGY IMPLEMENTATION

Terraform, Ansible, Gitlab, Amazon RDS, Amazon EC2, AWS KMS, VPC, NAT Gateway, AWS Cloudtrail, AWS Cloudwatch, WAF, Amazon Workspaces

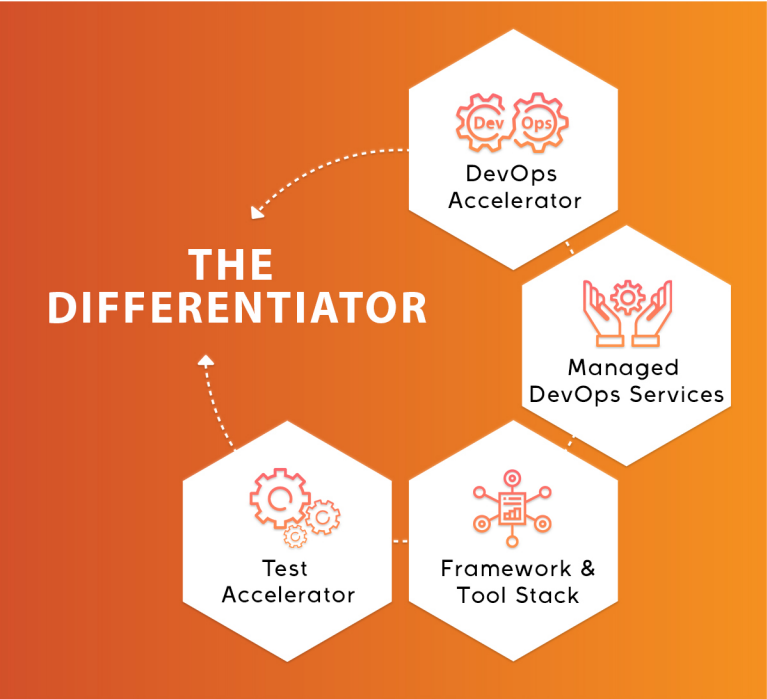
## AWS ARCHITECTURE DIAGRAM



## AAIC DEVOPS SERVICES

### THE OVERVIEW

- ▶▶ At AAIC, we help you build better products faster.
- ▶▶ As a Cloud System Integrator (CSI) and **DevOps Service Provider**, we enable enterprises to transform securely by accelerating the migration of their application and big-data workloads to the cloud with improved governance.



## THE FEATURES

We help you Master performance and collaboration within your team through our specially designed DevOps Services which

- 01 *Helps you decide the CI/CD platform based on your application*
- 02 *Quickly select the best suitable pipeline for your application*
- 03 *Contain easy-to-use and standard templates that can be modified to suit your unique application.*
- 04 *Incorporates templates based on recommended architecture.*
- 05 *Provides templates that have been used in production for multiple customers with varying degrees of application complexity*