Cloud Infrastructure Automation for a Leading Airline Industry Using DevOps

About the Client

The client is a leading public listed Tanzanian airline, which is a leader in providing scheduled flight services to over 10 destinations within and outside Tanzania from its main hub Dar es Salaam. The company operates on the principle that quick, comfortable and reliable service is the best way to serve its customers. Through its customer-focused approach, many have become part of this airline family.

At a **Glance**

INDUSTRY | Airline

LOCATION | Tanzania

USE CASE

Customer is using on-premise infrastructure with no automation, resulting in decrease in ROI, increase in hardware issues & couple of weeks to deploy & update application.

CHALLENGES

The client faced on-premise hardware failures and deployment of application takes days or weeks to get implemented.

Business Challenges

The client was using on-premises hardware for IT Infrastructure. Due to use its own hardware they were facing multiple issues like hardware failure, power outage, UPS, Patch management etc. There was no automation when update/upgrade to cloud infrastructure. Also the AWS IaaS is not fully managed and not properly configured. The application had challenges like peak time slowness or outage during tourism season. Manual updating required couple of days or a week in order to run in production.

Our Approach

After careful analysis, Royal Cyber offered and later-on moved all infrastructure to cloud. Our consultants designed professional DevOps flow to ensure Infrastructure scale up or down as per application requirement. Tools like Terraform and Ansible worked as heart of solution. We provided the client with:

❶ Infrastructure As Code

❷ Configuration Management

❸ Infrastructure cloning

❹ Application Load Balancing during peak time

❺ Automated Application deployment even during business hours

RESULTS

The client gained the following benefits:

1. Using automated DevOps tools they can now deploy, manage and launch new resources within hours

2. Save in bills by using infrastructure over cloud with help of "Pay As you use" model

3. No Downtime/ Single point of failure once they moved to AWS Cloud

4. The automation tools help the client to provision, deploy & update infrastructure as well as application within hours and reduced time to market.

5. Application Load Balancing during Peak time

6. Application deployment made possible even during business hours

SOLUTION

Royal Cyber moved all infrastructure to Cloud and use DevOps tools to deploy infrastructure to the cloud.

Key Takeaways

› 30% increase in ROI as compared with on-premises

› 80% decrease in issue management

› 90% decrease in hardware using AWS hybrid deployment

About Royal Cyber:

Simplifying IT for Customers & Partners

Royal Cyber Inc. Headquartered in Naperville, IL is a leading software organization that provides services ranging from application development and deployment to training and consultancy. We commenced the operations in the year 2002 as a specialized Technology provider striding in as a software deployment service provider, assisting clients to meet the standards and demands of doing business in the rapidly changing marketplace. Today we stand tall as a **One Stop Shop for all your IT needs.**