ROYAL CYBER

Case Study

Scalable, Automated & Monitored Infrastructure for a Leading Stock Record Company

At a Glance

INDUSTRY
Stock Media

LOCATION
USA

USE CASE
The customer needed an end to end cost effective and fully automated business solution on the cloud. They also wanted a proper monitoring framework with a proactive resolution to be implemented as a vital solution.

CHALLENGES

The Company was looking to reduce cost on the cloud with automated deployments and a proper monitoring framework in place.

SOLUTION

Using Amazon Auto scaling feature alongside Container Service, we reduced cost in IT Infrastructure. The automated deployments and Infrastructure provisioning using Jenkins, GitHub, Packer, and Ansible. Continuous monitoring framework is achieved using Sysdig, Somologic, Newrelic, JIRA, and VictorOps.

About The Client

The client is an American stock photography, stock footage, stock music, and editing tools provider headquartered in New York City. The company was founded in 2003 by a programmer and photographer. They maintain a library of around 125 million royalty-free stock photos, vector graphics, and illustrations, with around 4 million video clips and music tracks available for licensing.

Business Challenges

The client wanted an automated and flexible IT Infrastructure on the cloud that can scale as per incoming traffic. Continuous Integration and Delivery is required even during business hours. Management seeks a robust monitoring framework to respond and resolve any technical issues.

The client was using Auto Complete feature for publishing latest content on to the web. There were several fragmented Git repositories were being used by the teams. Jenkins was in place to do the required integration between GitHub and the target Elastic Container Service. They needed to automatically collect Container logs via somologic and integrate sysdig monitoring alerts onto JIRA which is a ticketing tool. They needed to prepare and manage Terraform scripts and also manage & update Configuration Management as needed from time to

Our Approach

After reviewing the client's needs, Royal Cyber proposed an implemented below plan that best matches the business requirements:

- Implemented VPCs and Transit VPCs to ensure isolation among different environments and connectivity to an on-premise data center.
- Configured Somologic to collect and analyze logs from ECS
- Implement Sysdig to get inside real time monitoring of containers.
- Integrated JIRA with client ticketing system
- Implemented Newrelic for in-depth application monitoring
- Integrated monitoring solutions with VictorOps to achieve successful client communication model

Key Takeaways

- ✓ **70% increase in ROI**
- ✓ **60% time savings in CI/CD tasks**
- ✓ **90% increase in timely alert resolution**
- ✓ **50% reduce in RTPO**

RESULTS

The recently implemented infrastructure design and the monitoring frame work covered all the automation and monitoring needs of the client.

- The new system provided higher availability of critical business applications and helped in strategizing the business growth more effectively.
- The new Infrastructure automated in AWS strengthened the application delivery to end customer.
- The latest CI/CD implementation reduced the time to market for all business applications.
- The monitoring framework improved business availability by 90%.
- The automated DR & BCP reduced the RTPO upto 50%

Royal Cyber Inc. HQ: Naperville, IL

55 Shuman Blvd, Suite 275,
Naperville, IL 60563 USA.

+1.630.355.6292
info@royalcyber.com

www.royalcyber.com

ABOUT US

Royal Cyber Inc. (HQ: Naperville, IL) is a leading software organization that provides services ranging from application development and deployment to training and consultancy.

Having operations in nine countries and over 1000 domain specialists, Royal Cyber is an award winner under numerous categories for global IT implementations across industry verticals.