

At a Glance

INDUSTRY

Automobile

LOCATION

USA

USE CASE

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

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, Serverless and patch automation feature ROI was reduced within IT Infrastructure. We implemented automated deployments and Infrastructure provisioning using Jenkins, GitHub, Terraform and Ansible. We implemented client communication model and monitoring framework using Datadog, CloudWatch, Splunk, Confluence and VictorOps.

Automated Software Delivery for a Leading Automobile Manufacturer

About The Client

The client is a giant in US automobile industry having a global footprint of producing quality cars. They have automobile manufacturing plant near Vance, Alabama. They offer customers with the most diverse line-up in the luxury segment with model lines. Over the years, the organization has grown into a nationwide organization, now employing over 1,600 people with over 380 associated dealerships.

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 was on the lookout for a robust monitoring framework to respond and resolve any technical issues.

The client was using Adobe AEM for publishing latest content to the web. Several fragmented Git repositories were being used by the teams. Jenkins was in place to do the required integration between GitHub and the target environment. They needed to automatically backup the virtual machines from time to time and integrate state of the art alert monitoring and resolution bundled with a client communication platform.

Our Approach

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

- Implemented 14 VPCs to ensure isolation among different environments
- Auto scaling, Serverless architecture and patch automation for all instances
- Centralized CI/CD using Jenkins master and slaves with GitHub integration
- Implemented DR and BCP within AWS
- Mapped CloudWatch, Datadog and Splunk alerts to VictorOps
- Amazon System Manager implementation for end to end Managed Services

Key Takeaways

✓ **60% increase in ROI**

✓ **50% time savings in CI/CD tasks**

✓ **90% increase in timely alert resolution**

✓ **30% reduction in RTPO**

RESULTS

The recently implemented infrastructure design and the client communication model alongside monitoring framework covered all 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 Infrastructure automation 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%.
- Effective client communication helped to overcome daily tasks and plan for future strategy.

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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.

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