

VELOCITY

AWS DevOps

AWS and DevOps Case Studies and Solution

Case Study 1

ACJ Technologies works in the Civil tools manufacturing industry. They have 1000 Million+ Customers based globally. They have an ERP system from which they manage their customer's requirements and internal organizational operations. They have five servers on Premises one of them is Database Server. Out of five only two are mostly used others are used for the festival period. They want the system as per the traffic. It can increase the resources & reduce them. They want everything in private and want to monitor application logs, CPU, and memory utilization in the dashboard. All the log files must be stored in object storage. They also wish to monitor Account activities. In case of any failure, respective managers must get a notification on their email. Currently, they are facing issues from overseas customers as website loading time is much more as DevOps Engineer provides the solution to them with POC.

Note

1. Database must be accessible from a private network only. It cannot be accessible from the public network.
2. Server OS must be lightweight and flexible

Hint

1. Used AWS as a Cloud platform
2. Create the VPC & two subnets one is private and public
3. Configure Autoscaling group
4. Create an RDS instance
5. Used Cloudfront for edge computing
6. Configure the Cloudwatch dashboard with VPC Flow logs and cloud trail
7. Create an S3 Bucket
8. Integrate SNS and create the topics.

Case Study 2

Maxwell Cooperation working on the AWS cloud platform. They want to do Automation so that after committing the code automatically Start running the test case and then deploy it on a different environment. Also, generate the report and store it in the AWS S3 Bucket.

Hint

1. Jenkins

Case Study 3

Spirit Enterprise is a product-based organization. The R&D team always looks for optimising the product and improving user experience. Due to this, product configuration keeps changing. They are looking for a solution to manage configuration and be able to do changes at a single point. It will reflect other instances as well.

Hint

1. Ansible

Case Study 4

TreeForst Technology has 25 AWS Instances for their application. They are looking for optimizing solutions for it. So they can improve efficiency and cost savings approach.

Hint

1. Docker

Case Study 5

Kryptonite is the leading marketing Specialist organization. They are providing services and have their own products. Most of the services are deployed on the AWS platform. There are some services that are interdependent. Design the optimized solutions with POC that will have efficient running jobs as well as easy to maintain and deploy inter-dependent services-based applications.

Hint

1. Docker-Compose

Case Study 6

AzuriteCognet wants to automate the infrastructure so that they can keep maintaining the log of the application. They are using the AWS cloud platform but they want cross-platform tools to automate infrastructure. In feature multi-cloud and migration from different platforms will be convenient.

Note

1. They have one VPC for Dev, QA, UAT, and DevOps environments.
2. They have subnets respectively. to the environments.
3. Each subnet has two instances

Hint

1. Terraform