Surendhiran Muthusamy

AWS DevOps Engineer

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Professional Summary:

- DevOps engineer with diverse experience in CI/CD tools, infrastructure deployment automation, Configuration Management, Build and Release management.
- 5 Years of technical experience with strong understanding of ITIL, Agile, DevOps, AWS cloud services (AWS EC2, ELB, Lambda, Apigateway, Cloudfront, Cognito, VPC, Auto scaling, S3, IAM, Route 53 and Cloud Watch) and exposure to AWS lambda serverless architecture, API Management and Container technologies.

Skills

Technical Skills:

Operating System	Window and Linux
CI/CD Tools	Git-hub, Jenkins, Maven, Sonarqube, AWS Code commit, code build, code deploy, code pipeline, Jfrog & Ansible
Release management tools	Service Now, BMC Remedy and Jira
Web server	Apache Tomcat
Scripting	Python Scripting

Self-learned Skills:

IAC	Terraform
Containerization	Docker and Kubernetes

Work Experience

Company	Cognizant Technology Solutions
Projects	TransCelerate Biopharma Inc. & Kaiser Permanente
Experience	July 2016 to Till Date
Role	AWS DevOps Engineer

Roles and Responsibility

- In depth knowledge in the design and implementation of fully automated Continuous Integration, Continuous Delivery pipeline for various applications.

- Hands on experience in various AWS services like EC2, S3, ELB, IAM, Route 53, VPC, Auto scaling, Cloud Front, Cloud Watch and Cloud Trail.

- Implemented CI/CD for Angular application using S3, Cloud front, Certificate Manager, AWS WAF and Route53.

- Implemented CI/CD for Lambda function using code build, code deploy and code pipeline services.

- Implemented CI/CD for spring boot OCR application running in EC2 instance behind ELB and auto-scaling group using code build and code deploy.

- Involved in creation, configuration, and implementation of API-gateway for the backend lambda application and secured the API-gateway REST endpoint using AWS Cognito user pool

- Created and managed AWS Code-Commit Repo for developers with proper access delegation using IAM.

- Worked with IAM service creating new IAM users & groups, defining roles and policies for users and various AWS services.

- Containerized java based application using Docker file and pushed the images to AWS ECR and deployed in lambda function.

- Integrated SonarQube analysis as a pull request approver on AWS Code Commit repository to avoid merging code with bugs, defects, or security vulnerabilities into branches.

- Enabled detailed monitoring on EC2 instance using cloud watch agent to monitor CPU, memory, disk read/write operations and configured alarms for notification using SNS topic.

- Provided application support at L3 level, fixing technical issues faced by the end users/developers related to environments

- Experience in design and development of highly available and scalable infrastructure using AWS VPC, ELB and auto-scaling for various applications.

- Involved in Jenkins administration activities includes installation, plugin configuring, user management, configuring and monitoring build jobs.

- Implemented CI/CD pipeline for various applications using Jenkins and extensively worked in build and deployment automation.

- Expertise in trouble shooting the problems generated during build and deployment process and ability to handle multiple tasks and can work independently as well as in a team.

- Automated various admin task like stop/start of non-prod EC2 instance using AWS lambda and Python Boto3 SDK.

- Conduct peer review release prior to deployment to meet audit and compliance requirements

- Coordinated scheduled releases and running calls((Impacts Analysis call, Weekly Release Review call, Release Readiness call & Go-No go call)for various applications and ensures that updates are communicated in a timely manner to business stake holder.

Achievements

- Created a batch utility to analyze the 3000 pdf's using S3 batch operation functionality and lambda function which greatly reduced the development team efforts.
- Identified areas of improvement in monitoring and proactively created cloud watch dashboard for monitoring Lambda and Api-gateway response time also involved in cot management and took various proactive steps to reduce the AWS budget.

Certifications

- AWS Certified Solutions Architect – Associate (SAA-C02)
- Udemy certified "Docker for the Absolute Beginner - Hands-On - DevOps
- Udemy certified "Kubernetes for the Absolute Beginner - Hands-On - DevOps
- Udemy certified "Terraform Associate"

Education

Exam / Degree	Year	Name of the Institute	University/Board
Bachelor of Engineering in Electronics & Communication	2011 - 2015	Anand Institute of Higher Technology, Chennai	Anna University
Higher Secondary education	2010 - 2011	KMMHSS, Cuddalore	State Board

Personal Interest

- Stock Market trading and investing
- Pencil Sketching

Declaration

The information provided above is true to the best of my knowledge and belief.

Place: Cuddalore   (**SURENDHIRAN M**)