

AMUTHAN N

AWS DEVOPS ENGINEER

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SUMMARY

- Having 3.5 Years of IT experience as a **DevOps Engineer** in automating, building, deploying, managing and releasing of code from one environment to other environment tightly maintaining Continuous Integration, Continuous Delivery and Continuous Deployment in multiple environments like (DEV/QA/STAGE & PROD).
- Expert in integrating cloud technologies with DevOps practices. Increased deployment frequency by 70% and reduced system failures by 50% in a high-profile tech firm. Effectively coordinated between development and operations teams to ensure smooth project execution.
- Specializes in building and maintaining robust cloud infrastructures using AWS, Azure Cloud. Implemented automation strategies that reduced deployment time by 60%.

TECHNICAL SKILLS

Cloud Platform	Amazon Web Services (AWS) , Microsoft Azure
DevSecOps Tools	OWASP(DAST), SonarQube(SAST),trivy
Version Control Tools	Git, GitHub & GitLab
Build Tools	Maven & npm
CI/CD Tools	Jenkins
Configuration Tool	Ansible
Containerization & Orchestration	Docker & Kubernetes
Databases	MySQL, PostgreSQL & Opensearch
Monitoring	Datadog, Prometheus & Grafana

WORK EXPERIENCE

Tata Consultancy Services

Apr 2021 – Sept 2024

Client: Moody’s Analytics
Role :Cloud & DevOps Engineer

Description: Moody's Analytics provides economic research regarding risk, performance and financial modelling, as well as consulting, training and software services. Also, offers credit risk solutions that help firms improve how they measure, manage, and mitigate the credit risk inherent in their loan and investment portfolios

Responsibilities:

- Carrying out automated build and deployment process across DEV, QA, STAGING and PROD environments.
- Implementing best practices for security, networking, and providing operational support for more than 10+ accounts in AWS cloud Infrastructure and also automated various services (**EC2, S3, VPC, RDS, IAM, ELB, Autoscaling group, Route53, EKS, ECS**) using **Terraform**.
- Configured AWS Elastic Load Balancing, Route 53 for DNS management, and Auto Scaling to enhance application availability, optimize performance, and ensure seamless traffic distribution
- Managed **AWS Identity and Access Management (IAM)** for secure access control, utilized CloudWatch for monitoring and logging, and implemented **SNS** for reliable messaging and alerting across applications

- Responsible for creation of **Dockers files, Docker images** and maintaining image versions in **Elastic Container Registry** and container deployment
- Adopted **multistage Docker builds** to reduce image size and improve build efficiency, achieving a 50% reduction in image size and a 40% decrease in build time.
- Orchestrated **Kubernetes clusters on EKS**, ensuring high availability and scalability of applications, contributing to enhanced operational performance.
- Managed **Kubernetes resources including Deployments, Pods, Services, and Secrets, Helm charts**, optimizing performance and security, leading to a 20% improvement in resource utilization.
- Assisted in developing **Kubernetes manifests and Helm charts**, contributing to 20% reduction in deployment complexities for SMB clients
- Orchestrated a seamless **migration of 15+ microservices to a Kubernetes environment**, improving system resilience and reducing downtime by 98% during peak load times
- **Designed and implemented an automated deployment pipeline in Jenkins for various microservice**, reducing deployment time by 50% and increasing deployment frequency by 75%.
- Using Nexus as an artifactory management for maven developed builds.
- Worked closely with Developers from multiple teams and **implement branching strategies** for various projects and resolve the merge conflicts in GitHub repository
- Expertise in configuring and managing **Nginx** as a reverse proxy for load balancer and caching.
- Experience in setting up **SSL/TLS** certificates and configuring **HTTPS** termination in nginx.
- Implemented **Single Sign-On(SSO)** solution of AD group for seamless authentication across multiple applications.
- Worked on AWS cost management, capacity planning, scalability, and disaster recovery strategies.
- Experience in monitoring tools like Amazon Cloud watch to monitor logs, Metrics and setting up alarms for the resources created in AWS cloud.
- Have implemented shell scripts to automate day to day tasks and worked on YAML scripting.

CERTIFICATION

AWS Certified Solutions Architect Associate - SAA C03

Hashicorp Certified Terraform Associate – HCTAO 002

EDUCATION

Bachelor of Engineering |Sri Sairam Engineering College, **Anna University**, Chennai, India, 2020

DECLARATION

I hereby declare the above-functioned information is true to the best of my knowledge.

Amuthan N