

MOHAN A

AWS & DevOps Engineer

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PROFESSIONAL SUMMARY

Skilled AWS & DevOps Engineer with 4.8 years of experience specializing in CI/CD automation, cloud infrastructure, and Kubernetes orchestration. Expertise in AWS (EC2, VPC, Lambda), Jenkins, Docker, Terraform, and Ansible. Proven record of improving deployment speed, reducing costs, and enhancing system uptime.

CORE SKILLS

- **Cloud Platforms & Services:**
AWS (EC2, S3, VPC, RDS, EKS, CodeArtifact, Secrets Manager, Security Groups)
- **CI/CD & Version Control:**
Jenkins, Git, GitHub, GitHub Actions
- **Build & Package Management:**
Maven, npm, Cargo, Go Modules
- **Containers & Orchestration:**
Docker, Kubernetes, Helm, Kubernetes Secrets
- **Infrastructure as Code (IaC) & Automation:**
Terraform, Ansible, Configuration Management
- **Monitoring & Observability:**
CloudWatch, Prometheus, Grafana, Dynatrace
- **Security & Compliance:**
SonarQube, Snyk, Trivy, Gitleaks, TruffleHog, Qwiet.AI, DevSecOps
- **Web & Middleware:**
Nginx, Microservices, Web Server Configuration
- **Databases:**
MySQL, PostgreSQL, MongoDB, Redis
- **Programming & Scripting:**
Python, Shell Scripting, Linux Administration
- **Collaboration & Project Management:**
Jira, Confluence, Slack
- **Optimization & Resilience:**
Disaster Recovery, Cost Optimization, Infrastructure Resilience

PROFESSIONAL EXPERIENCE

DevOps & AWS Engineer

Nano Tech E Services | Bangalore | Mar 2021 – Present

Project 1: Cloud-Native Migration & AIOps Enablement

Duration: January 2024 – Present

Client: Enreap

Key Responsibilities & Achievements:

- Migrated monolithic applications from on-premises servers to AWS cloud, leveraging EC2, S3, RDS, and EKS for high availability and scalability.
- Set up multi-branch Jenkins pipelines integrated with GitHub and SonarQube for automated build, test, and deployment.
- Deployed containerized services using Docker and orchestrated deployments via Kubernetes Helm charts.
- Implemented Terraform-based environment provisioning, automating VPC, subnets, NAT gateways, security groups, and IAM roles.
- Configured AWS Secrets Manager and Kubernetes Secrets for centralized credential management and encryption.
- Established observability using Dynatrace, Prometheus, and CloudWatch, integrating metrics and log aggregation for proactive alerts.
- Performed image vulnerability scans using Trivy and Snyk, ensuring compliance with organizational security standards.
- Designed Git branching strategy (feature/release/hotfix) and enforced code quality gates with SonarQube.
- Set up AWS CodeArtifact for secure package management and dependency control.
- Integrated automated rollback mechanisms in CI/CD pipelines, reducing recovery time from failed deployments.
- Tuned Kubernetes autoscaling (HPA) policies to optimize workload efficiency and minimize costs.
- Managed Redis and PostgreSQL databases for session caching and application data, including backup and restore automation.
- Worked on cost governance reports using AWS Cost Explorer and Budgets for continuous optimization.
- Built custom monitoring scripts in Python for API health checks and deployment validations.
- Collaborated with cross-functional teams using Jira, Confluence, and Slack, ensuring transparent communication and agile delivery.

Project 2: DevOps Implementation & Cloud Automation

Duration: March 2021 – December 2023

Client: Amrut Software

Key Responsibilities & Achievements:

- Designed and implemented CI/CD pipelines in Jenkins and GitHub Actions, automating multi-environment deployments with zero downtime.
- Containerized core microservices using Docker and deployed them to Kubernetes (EKS) with Helm, improving scalability and reducing resource overhead by 30%.
- Managed AWS infrastructure (EC2, S3, VPC, RDS, IAM, CloudWatch, ALB) using Terraform, enabling Infrastructure as Code (IaC) practices and version-controlled environments.
- Developed Ansible playbooks for automated server provisioning, patching, and configuration management across QA, Staging, and Production.
- Configured AWS CloudWatch, Prometheus, and Grafana dashboards for infrastructure and application-level monitoring, reducing incident detection time by 40%.
- Implemented security and compliance scanning using SonarQube, Snyk, Trivy, and Gitleaks integrated into CI pipelines.
- Managed Kubernetes secrets and ConfigMaps for sensitive configurations, ensuring secure handling of credentials and tokens.
- Automated AMI image creation and EC2 provisioning workflows using Terraform modules and AWS CLI scripts.
- Performed cost optimization across EC2 and RDS resources through rightsizing and reserved instance planning, saving ~20% monthly.
- Integrated Slack and Jira notifications for CI/CD pipeline alerts and deployment tracking, improving communication and visibility.
- Established disaster recovery (DR) strategies with automated EBS snapshots and S3 replication across regions.
- Configured Nginx reverse proxy for load balancing and SSL termination, enhancing security and performance.
- Worked closely with developers to implement DevSecOps practices, embedding security checks at each pipeline stage.
- Developed Bash and Python automation scripts to simplify repetitive tasks like log rotation and resource cleanup.
- Led knowledge-sharing sessions to standardize DevOps workflows across multiple project teams.

EDUCATION

B.Tech | ECE | JNTUA - (2015 – 2019) – 61%