

Madeep Yampalaku

DevOps & Cloud Engineer

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PROFESSIONAL SUMMARY

DevOps & Cloud Engineer with 3+ years of experience designing and operating production-grade AWS and Kubernetes platforms. Experienced in Amazon EKS architecture, Terraform-based infrastructure automation, CI/CD engineering, and Kubernetes workload optimization. Managed 12+ microservices serving ~10,000 users per hour across Dev and Prod environments. Reduced EKS infrastructure cost from \$430 to \$73 through scaling and rightsizing strategies. AWS SAA and CKA certified.

SKILLS

Cloud & Infrastructure: AWS (EKS, EC2, ECS Fargate, VPC, IAM, RDS, S3, Lambda, Route 53, WAF, ACM)

Containers & Orchestration: Kubernetes, Docker, Helm, NGINX Ingress, AWS Load Balancer Controller, HPA, Cluster Autoscaler

CI/CD & DevOps Tools: Jenkins, GitHub Actions, AWS CodePipeline, CodeBuild, CodeDeploy, ArgoCD

Infrastructure as Code: Terraform (modular architecture)

Monitoring & Logging: Prometheus, Grafana, Loki, Promtail, ELK Stack, CloudWatch

Security & Compliance: Trivy, SonarQube, IAM Policies, AWS Security Best Practices

Scripting: Python, Bash

PROFESSIONAL EXPERIENCE

Nepa Resource Management, Software Engineer (DevOps)

07/2024 – Present | Ahmedabad, India

- Designed and provisioned production-grade Amazon EKS infrastructure using Terraform with modular VPC, IAM, EKS cluster, and managed node groups.
- Managed 12 microservices (4 backend, 6 frontend, 2 databases) and additional workloads across Dev and Prod environments.
- Supported ~10,000 users per hour while maintaining 99.9% uptime.
- Wrote Kubernetes manifests from scratch for Deployments, Services, Ingress, HPA, and AWS Load Balancer Controller.
- Implemented resource requests/limits, liveness & readiness probes, taints, tolerations, and node selectors for workload stability and isolation.
- Configured Horizontal Pod Autoscaler and Cluster Autoscaler for dynamic scaling.
- Reduced monthly EKS cluster cost from ~\$430 to ~\$73 through rightsizing and autoscaling optimization.
- Led EKS cluster upgrades (v1.23 to v1.32) ensuring zero downtime and workload compatibility.
- Built Jenkins CI/CD pipelines integrating Trivy and SonarQube; reduced deployment time by 35%.
- Implemented monitoring and logging using Prometheus, Grafana, Loki; reduced incident resolution time by 25%.

Auropro Soft Systems Pvt. Ltd., Associate DevOps Engineer

01/2023 – 07/2024 | Hyderabad, India

- Provisioned AWS infrastructure using Terraform (VPC, EC2, RDS, IAM, networking) for Dev and Prod environments.
- Developed reusable Terraform modules to standardize infrastructure provisioning.
- Built CI/CD pipelines using AWS CodePipeline, CodeBuild, and CodeDeploy to streamline releases.
- Improved EC2 and RDS performance by 15% through infrastructure optimization.
- Strengthened cloud security using IAM policies, security groups, and VPC best practices.
- Built CloudWatch dashboards and alerts to improve reliability and reduce incident response time.

EDUCATION

B.Tech in Computer Science and Engineering,

Madanapalle Institute of Technology and Science

2019 – 2023 | Madanapalle, India

- CGPA: 8.6/10

CERTIFICATIONS

- AWS Certified Solutions Architect - Associate (SAA-C03) [🔗](#)
- Certified Kubernetes Administrator (CKA) [🔗](#)