

Boopathy N

AWS Cloud & DevOps Engineer

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PROFESSIONAL SUMMARY

AWS Cloud & DevOps Engineer with 2.5+ years of experience designing, automating, and optimizing cloud-native infrastructure on AWS. Hands-on expertise in Terraform, Kubernetes (Amazon EKS), Docker, Jenkins, GitLab CI/CD, and ArgoCD, with proven success in building scalable, secure, and highly available platforms across Development, QA, and Production environments. Strong background in CI/CD automation, Infrastructure as Code, observability, cost optimization, and Kubernetes operations. Demonstrated ability to improve deployment reliability, reduce operational overhead, and accelerate software delivery through DevOps best practices.

TECHNICAL SKILLS

Cloud Platforms: AWS (EC2, S3, VPC, IAM, EKS, ECR, ALB, NLB, Auto Scaling, Lambda, CloudWatch, Route53, CloudFront, KMS, X-Ray)

Infrastructure as Code: Terraform, Terraform Modules, Workspaces, Remote State Management

Containers & Orchestration: Docker, Docker Compose, Kubernetes (EKS), Helm Charts

Kubernetes & GitOps: Amazon EKS, ArgoCD, RBAC, Rolling Updates, Blue-Green Deployments

CI/CD & Automation: Jenkins, GitLab CI/CD, GitHub Actions, AWS CodePipeline, AWS CodeBuild, AWS CodeDeploy

Monitoring & Observability: CloudWatch, Prometheus, Grafana, X-Ray

Networking & Security: VPC, Security Groups, NACLs, IAM, SSL/TLS, Nginx

Configuration Management: Ansible

Databases: PostgreSQL, Amazon RDS, DynamoDB

Version Control: Git, GitHub, GitLab, Bitbucket

Scripting & Configuration: Bash, Python, YAML, JSON, PowerShell

Tools: Jira, Slack, Trivy

PROFESSIONAL EXPERIENCE

DevOps Engineer

VNC Digital Services, Bengaluru, India | Nov 2023 – Present

Responsibilities

- Provisioned and maintained AWS infrastructure across Development, QA, and Production environments using reusable Terraform modules.
- Automated infrastructure provisioning and deployment workflows using Infrastructure as Code principles.
- Designed, maintained, and optimized CI/CD pipelines for application build, test, and deployment processes.
- Managed containerized workloads on Amazon EKS using Kubernetes and Docker.
- Implemented GitOps deployment workflows using ArgoCD to improve deployment consistency.
- Configured Terraform remote-state management using S3 and DynamoDB locking.
- Integrated CloudWatch, Grafana, and monitoring solutions for platform observability.
- Troubleshooted Kubernetes, networking, IAM, and CI/CD pipeline issues across multiple environments.
- Supported cloud governance, security, and access-management initiatives.
- Collaborated with development and QA teams to improve release reliability and operational efficiency.

Impact

- Reduced average deployment time by 35% through CI/CD automation and deployment optimization.
- Reduced Mean Time to Resolution (MTTR) by 40% through proactive monitoring and alerting.
- Achieved 20% reduction in AWS infrastructure costs through resource optimization initiatives.
- Eliminated Terraform state conflicts through centralized remote-state management.
- Improved deployment consistency and platform reliability across environments.

KEY PROJECTS

TESTIFY – Cloud-Based Browser Automation Platform (Current/Ongoing Project)

Responsibilities

- Contributed to cloud infrastructure supporting high-throughput automated browser testing on Amazon EKS.
- Implemented Docker multi-stage builds for React, Node.js, and Selenium Grid workloads.
- Optimized container build performance using layer caching and lightweight base images.
- Configured Jenkins distributed build architecture to support parallel execution.
- Managed Kubernetes deployments and GitOps workflows using ArgoCD.
- Implemented Horizontal Pod Autoscaling (HPA) and cluster autoscaling strategies.
- Supported CI/CD optimization, troubleshooting, and release automation initiatives.

Impact

- Reduced Docker image size by 45%.
- Improved pipeline execution speed by 30%.
- Reduced infrastructure costs by 20%.
- Increased automated test throughput through distributed execution.
- Improved release reliability across Development, QA, and Production environments.

GitLab CI/CD Pipeline Automation

Responsibilities

- Designed and implemented GitLab CI/CD pipelines for multi-branch development workflows.
- Configured cross-pipeline communication and dynamic variable passing.
- Automated artifact management, log extraction, and ZIP processing tasks.
- Developed automated extraction and reuse of Plan IDs and Subscription IDs.
- Built CSV-based tracking systems and JSON-driven execution workflows.
- Configured API-based pipeline triggering and secure CI/CD variables.
- Integrated Slack and Email notifications for execution reporting.
- Troubleshoot and optimized pipeline execution workflows.

Impact

- Reduced manual effort by 60%.
- Improved process efficiency by 40%.
- Increased team visibility by 30%.
- Reduced CI/CD pipeline failure rates by 25%.
- Improved auditability and execution traceability.

Enterprise DevOps Automation – Production AWS Infrastructure | Nextgen

Responsibilities

- Built enterprise-grade AWS infrastructure supporting production workloads.
- Developed reusable Terraform modules for VPCs, EKS clusters, Auto Scaling Groups, and storage services.
- Implemented highly available multi-AZ cloud architecture.
- Introduced blue-green deployment strategies to minimize deployment risk.
- Configured Kubernetes autoscaling, resource quotas, and network policies.
- Integrated CloudWatch, Prometheus, and Grafana monitoring solutions.
- Supported infrastructure scalability, reliability, and security initiatives.

Impact

- Reduced infrastructure provisioning time by 50%.
- Improved deployment reliability and rollback capabilities.
- Enhanced operational visibility through centralized monitoring.
- Increased infrastructure scalability for enterprise workloads.

EDUCATION

Bachelor of Technology (B.Tech) – Computer Science Engineering | Graduated 2023

Bharath Institute of Science and Technology