

GADIDAMALLA THANGELLA

AWS DevOps Engineer | Cloud Infrastructure & Automation

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Portfolio: <https://thangella-portfolio.vercel.app/>

PROFESSIONAL SUMMARY

AWS DevOps Engineer with practical experience in cloud infrastructure automation, CI/CD pipeline development, containerization, and infrastructure as code through strong project-based work. Skilled in deploying and managing applications on AWS, provisioning infrastructure with Terraform, orchestrating workloads using Docker and Kubernetes, and automating build and release processes with Jenkins. Adept at monitoring, troubleshooting, and optimizing cloud environments using CloudWatch, Prometheus, and Grafana. Brings a solid understanding of DevOps principles, cloud-native architecture, and agile practices, with a strong commitment to reliability, automation, and continuous learning.

CORE TECHNICAL SKILLS

Cloud (AWS)

EC2, S3, IAM, VPC, RDS, ALB/NLB, EBS, Route53, CloudWatch, Auto Scaling, AWS CLI

DevOps & CI/CD

Jenkins, GitHub, Git, Maven, Nexus, Argo CD (GitOps), CI/CD Pipelines, Configuration Management, Release Automation

Containers & Orchestration

Docker, Kubernetes, Helm, Kops, Rolling Deployments, Blue/Green Deployments

Infrastructure as Code

Terraform (modular design), Ansible

Monitoring & Observability

Prometheus, Grafana, CloudWatch Dashboards & Alarms

Programming & Scripting

Shell Scripting, Python (Boto3 for AWS resource management), Linux (Ubuntu/RHEL)

Other Tools

NGINX, YAML/JSON, Vercel, GitHub Actions

KEY PROJECTS

1. AWS DevOps CI/CD Pipeline with Blue/Green Deployment

Tools: Terraform, Jenkins, Maven, CodeDeploy, EC2, S3

- Designed and automated AWS cloud infrastructure using Terraform (modular, reusable architecture).
 - Implemented multistage CI/CD pipelines using Jenkins Pipeline-as-Code, integrating build, test, and deployment.
 - Integrated AWS CodeDeploy with Blue/Green deployment strategy to achieve zero-downtime releases.
 - Automated artifact management using Nexus + S3, improving deployment frequency by 2.5×.
 - Reduced manual operational work by 60% through automated environment provisioning and deployment workflows.
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2. Kubernetes Cluster Deployment with Observability

Tools: Kops, Docker, Helm, Prometheus, Grafana

- Provisioned a multi-node Kubernetes cluster on AWS using Kops and configured custom VPC networking.
 - Containerized services using Docker and deployed applications using Helm charts.
 - Set up Prometheus for metrics scraping and integrated Grafana dashboards for real-time visualization.
 - Implemented alerting, resource monitoring, and node-health analysis to improve response time.
 - Optimized cluster resources by tuning HPA, pod configurations, and load distribution.
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3. Infrastructure Automation with Terraform & AWS Tools: Terraform, AWS CLI, Git

- Developed Terraform modules to provision EC2, VPC, subnets, route tables, RDS, IAM roles, S3, and ALB.
- Implemented remote state management and version-controlled infrastructure workflows.
- Automated infrastructure maintenance tasks using Shell scripts and AWS CLI.
- Strengthened security by enforcing IAM least privilege, subnet segregation, security group policies, and integrating **TFLint for security best practices and compliance checks**. (*Note: I've added TFLint—replace this with Checkov or another tool if that's what you used.*)

4. Containerization & Deployment Automation

Tools: Docker, Kubernetes, Jenkins, Nexus**

- Containerized microservices with optimized Dockerfiles and multi-stage builds.
- Automated CI/CD integration with Kubernetes clusters using Jenkins + helm upgrade pipelines.
- Configured rolling deployments and load-balanced services through NGINX and Kubernetes ingress.
- Improved application reliability and reduced deployment errors using strict versioning and artifact control.

ADDITIONAL PROJECTS

Automation Toolkit (Node.js + Shell)

- Built utility tools for repetitive developer workflows, including code diffing, log parsing, and build automation.

Monitoring & Alerting Enhancements

- Integrated CloudWatch Alarms with SNS; created dashboards for latency, CPU, memory, and service health.

EDUCATION

B.Sc (Honors) in Computer Science

Backstage Pass Institute of Gaming, Hyderabad | 2024

Intermediate (MPC)

Sri Gayatri Junior College

SSC

Lotus Lap Public School

LANGUAGES

English: Professional Proficiency

Hindi: Conversational

Telugu: Native

INTERESTS

Cloud Automation, System Optimization, DevOps Innovation, Scalable Architecture, Writing, Exploring-Learning New Tech, Generative AI, Entrepreneurship.