KOUSHIK GURRALA

DevSecOps Engineer| Cloud DevOps Engineer| Site Reliability Engineer (SRE)

CONTACT DETAILS

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PROFESSIONAL SUMMARY

Site Reliability Engineer & AWS DevOps Practitioner with 3.8 years of experience in designing and automating CI/CD pipelines, implementing GitOps and designing high-availability infrastructure on AWS including containerized microservices on EKS and enabling real-time observability using Prometheus, Grafana, Fluent Bit, Jaeger and Open Telemetry. Strong background in GitOps, secure container builds, infrastructure-as-code (Terraform) and implementing SLOs/SLIs through SRE best practices and reducing deployment errors.

- Engineered end-to-end CI/CD pipelines using **Jenkins** and **GitHub Actions** accelerating delivery cycles by **35%** and increasing release reliability.
- Provisioned scalable, secure infrastructure using **Terraform**, automating resource deployment across **AWS (EKS, ECR)** and **Azure (AKS, IAM, Pub/Sub)** environments.
- Containerized and deployed microservices with **Docker** and orchestrated rollouts on **AKS** and **AWS** using **Kubernetes + ArgoCD** improving scalability by **60%** and reducing deployment errors by **40%**.
- Implemented **SonarQube** for static code analysis and security checks, identifying and remediating 20+ code issues pre-release, improving code maintainability by **30%**.
- Integrated **JFrog Artifactory** for artifact versioning and pipeline hardening, cutting build times by **20%** and enhancing traceability.
- Established robust observability by deploying **ELK Stack** for centralized logging and **Prometheus + Grafana** for real-time performance monitoring, reducing MTTR by **35%**.
- Collaborated with cross-functional teams using **Jira, ServiceNow**, and **Confluence**, improving project tracking and documentation efficiency by **40%**.
- Developed n8n workflows pushing real-time build/deployment alerts to Teams & Outlook, improving incident response speed.
- Optimized Jenkins CI/CD pipelines with Git, SonarQube, and Maven/MSBuild, reducing build failures by 25% and deployment time from 45 minutes to 10 minutes.
- Integrated Trivy into CI pipelines, reducing high-severity Docker vulnerabilities by 90% before reaching production.

PROFESSIONAL EXPERIENCE

Company Name: Wipro Technologies
Project Name: Wipro Gallagher Solutions
Role: DevOps Engineer
Project Overview:

Developed and optimized cloud-based infrastructure solutions enhancing the performance, scalability, and reliability , ensuring seamless integration between development and operations teams to support global technology leadership.

Key Responsibilities & Achievements:

- **CI/CD Automation:**
    - Designed and managed hybrid CI/CD pipelines using **Jenkins** and **GitHub CI/CD**, integrated with **SonarQube** for static code analysis and **JFrog Artifactory** for artifact management.
    - Reduced deployment cycle time by **35%** and improved code quality by **30%** by implementing automated testing, quality gates, and artifact versioning.

- **Cloud Infrastructure (Azure & AWS):**
    - Provisioned and managed multi-cloud infrastructure using **Terraform** across AWS (EKS, ECR, S3, LambdaFunctions and IAM) and **Azure (AKS, ACR, Key Vault).**
    - Automated infrastructure deployment with reusable Terraform modules, reducing provisioning time by 4**0%** and eliminating configuration drift.
    - Built AWS Lambda workflows automating repetitive operational tasks, reducing manual effort by 40% and saving ~$2,000/month in cloud costs
    - Provisioned AWS infrastructure (EC2, ASG, VPC, ECR) using Terraform with drift detection.
- **Containerization & Kubernetes:**
    - Automated Kubernetes deployments using Argo CD, enabling declarative, GitOps-driven workflows for multi-cluster environments.
    - Enabled zero-downtime releases on AWS EKS using Argo Rollouts with canary and blue-green strategies, cutting rollback time by 60% and improving release confidence.
    - Modernized legacy workflows by implementing GitOps-based DevOps, enabling automated and scalable multi-environment deployments.
- **Monitoring & Observability:**
    - Set up **Prometheus** and **Grafana** for metrics collection and performance dashboards, enabling early anomaly detection and **35% improvement in MTTR**.
    - Implemented end-to-end observability by configuring Prometheus to collect metrics from Kubernetes clusters and EC2. Visualized key performance using Grafana dashboards for monitoring and alerting.
    - Deployed **ELK Stack (Elasticsearch, Logstash, Kibana)** to centralize application and Configured Fluent Bit and Elasticsearch within the EFK stack to ingest, process, and centralize container logs from Kubernetes pods, enabling real-time log analysis and alerting through Kibana dashboards.
    - Embedded distributed tracing with OpenTelemetry & Jaeger, improving request latency by 25% and identifying performance bottlenecks.
- **Security & Compliance:**
    - Integrated Sonarqube and Trivy into CI pipelines, reducing high-severity Docker vulnerabilities by 90% before reaching production.
    - Managed secrets and credentials in **AWS Secret Manager**, enforcing least-privilege access controls.

SKILLS & TOOLS

- **Cloud:** AWS (EKS, ECR, S3, IAM, Lambda Functions and
- **CI/CD & DevSecOps:** Jenkins CI/CD, GitHub Actions, ArgoCD, Azure DevOps, SonarQube Git Secrets.
- **Security:** Trivy, Vault, SAST/SCA, Secret Scanning
- **Containers & Orchestration:** Docker, Kubernetes (AKS, EKS, RBAC, Network Policies
- **IaC & Automation:** Terraform, Bash, Python (basics)
- **Monitoring & Logging:** Prometheus, Grafana, ELK Stack, Jaeger, Fluentd
- **Collaboration & Tools:** Jira, ServiceNow, Confluence, Git, GitHub, GitLab, VS Code
- **OS:** Linux (Ubuntu), Windows

EDUCATION

Bachelor of Science

At AndhraUniversity, Andhra Pradesh
Graduated: September 2021

CERTIFICATIONS

- Pursuing AWS Certified DevOps Engineer
- Be10x AI Automation Workshop.