

PRASHANTH BHASKARI

DevOps Engineer | EKS | Terraform | CI/CD | Docker | Helm | ArgoCD

Email: prashanthb3004@gmail.com | Phone: +91 7095626671 | [LinkedIn](#) | Hyderabad, India | Open to Remote/Hybrid

PROFESSIONAL SUMMARY

AWS DevOps Engineer with 4+ years of experience building and maintaining CI/CD pipelines, Terraform-based Infrastructure as Code, and Kubernetes workloads that enable secure and repeatable delivery of cloud-native solutions. Proven track record operating Amazon EKS platforms for 30+ microservices, standardizing Helm deployments, and automating multi-region AWS infrastructure using reusable Terraform modules. Experienced in production incident response, SLI/SLO observability, and DevSecOps practices including container image scanning and IAM least-privilege enforcement. Strong collaborator across Cloud, Data Engineering, and QA teams with hands-on exposure to cost optimization, GitOps-ready pipeline design, and zero-downtime deployment strategies.

TECHNICAL SKILLS

CI/CD & VCS	Jenkins, Git, Maven, Docker Build, Branch Strategies, GitOps
IaC	Terraform, Reusable Modules, S3 Remote State, Workspaces,
Containers	Docker, Dockerfile, Multi-Stage Docker Builds, Docker Image Optimization, Containerization
Orchestration	Kubernetes, Amazon EKS (cluster management), Helm, HPA, Ingress, Services, ConfigMaps, Rolling & Canary Deployments
AWS Cloud	EC2, EKS, ECR, S3, VPC, IAM, Route 53, CloudWatch, ALB/ELB, Secrets Manager
Monitoring & SRE	Prometheus, Grafana, CloudWatch, SLI/SLO Dashboards, Alerting, Incident Response, RCA
DevSecOps	Trivy, SonarQube, SAST, Container Image Scanning, IAM Least Privilege, Security Groups, Compliance Automation
Scripting & OS	Shell/Bash, YAML, Linux RHEL, Windows Server
Cost Optimization	Infrastructure cost reduction via EKS right-sizing, HPA autoscaling, Docker image hygiene, Terraform module reuse

WORK EXPERIENCE

DevOps Engineer | Tata Consultancy Services (TCS) | Hyderabad, India | June 2024 - Present

Project: British Telecom Group

- Designed and maintained multi-stage **Jenkins** CI/CD pipelines for 30+ microservices—automating **Docker image builds**, Trivy security scans, and Helm deployments — reducing release cycle time by 40%
- Managed Amazon EKS cluster operations across Dev, QA, UAT, and Production namespaces, supporting **HPA autoscaling**, rolling updates, service discovery, and zero-downtime deployments for 99.9% uptime targets.
- Implemented **GitOps** workflows using **ArgoCD**, Standardized a reusable **Helm** chart library for 30+ services with values schema validation, environment-specific overrides, and deployment guardrails — **cutting misconfiguration incidents by 30%**.
- Architected CI/CD pipelines following GitOps principles, treating **GitHub** as the single source of truth for cluster state — pipeline-driven Helm releases ensured all environment changes were version-controlled, auditable, and repeatable, establishing a foundation aligned with ArgoCD adoption patterns for future GitOps tooling migration.
- Provisioned and maintained **AWS infrastructure** using reusable **Terraform modules** with Terraform remote state management and state locking for **EKS, IAM, VPC, S3, and Route 53** across multi-region environments.
- Configured Route 53 DNS records, domain routing, and health-check based traffic routing to improve endpoint availability and reliable application access.
- Led production incident response including triage, log-based root cause analysis, Helm rollback execution, RCA documentation, and corrective action tracking — supporting continuous production stability.
- Implemented **Prometheus, Grafana, and CloudWatch** monitoring solutions to collect infrastructure and application metrics, build real-time dashboards, configure alerting for CPU, memory, pod health, and application errors, and improve the reliability of cloud-native applications.
- Collaborated with Dev teams, Data Engineering, QA, and Security teams to define deployment standards, pipeline guardrails, and runbook documentation.

DevOps Engineer | Tata Consultancy Services (TCS) | Hyderabad, India | Jan 2022 - May 2024

Project: British Telecom Group — On-premise to AWS cloud migration and platform automation

- Migrated 15+ on-premise applications to AWS through phased modernization, **Docker containerization**, and **Amazon EKS** deployments — **reducing infrastructure costs by 25%** and limiting planned cutover downtime to under 2 hours per application.
- Built Jenkins CI/CD pipelines integrating Git, Maven, Docker build, Trivy image scanning, SonarQube quality gates, and staged deployments — **reducing manual release effort by 60%**.
- Introduced Terraform IaC from scratch with reusable modules for VPC, EC2, EKS, S3, and IAM, plus S3 remote state — **cutting infrastructure provisioning effort by 60%**.
- Implemented **DevSecOps** controls using **Trivy** for container image scanning and **SonarQube** for SAST, alongside IAM least-privilege enforcement, security group hardening, and encryption at rest and in transit.
- Applied **blue-green and canary** deployment strategies on Kubernetes to validate changes incrementally, reducing post-migration deployment failures by 35%.
- Implemented infrastructure and Kubernetes monitoring using **Prometheus, and Grafana**, enabling real-time visibility into node, pod, CPU, memory, and application health across production environments.
- Troubleshoot production EKS issues including **CrashLoopBackOff**, pod readiness/liveness failures, Ingress misconfigurations, and service endpoint errors — ensuring platform continuity.
- Partnered with development, QA, security, and infrastructure teams to prepare migration runbooks, validation checkpoints, and production cutover plans for 15+ applications.

KEY ACHIEVEMENTS

- Reduced CI/CD release cycle time by 40% by designing automated multi-stage pipelines for 30+ microservices with PR validation, security scanning, Helm deployments, and release tagging.
- Cut infrastructure provisioning effort by 60% through reusable Terraform modules, S3 remote state management, and DynamoDB state locking across multi-account AWS environments.
- Reduced cloud infrastructure costs by 25% by migrating 15+ legacy on-premise applications to AWS EKS with right-sized containerized workloads and HPA autoscaling.
- Standardized Helm chart library for 30+ services, reducing misconfiguration-related incidents by 30% and enabling consistent deployments across Dev/QA/UAT/Prod environments.
- Improved deployment reliability by 35% through canary, blue-green and rolling update strategies on Kubernetes, with post-deployment validation integrated into pipelines.

EDUCATION

B.Tech, Mechanical Engineering · Sri Indu Institute of Engineering and Technology · 2017–2021