

PRADUMAN PRAJAPATI

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Education

KIET Group of Institutions - AKTU

B.Tech (Computer Science and Engineering - AIML)

2022 – 2026

Delhi NCR, INDIA

Technical Skills

Containerization & Orchestration: Docker, Kubernetes
Configuration Management & IaC: Ansible, Terraform
CI/CD: Jenkins, GitHub Actions, ArgoCD
Monitoring & Observability: Prometheus, Grafana
Cloud Platforms: AWS (EC2, S3, IAM, VPC, ECS, EKS), Azure
Programming & Scripting: Golang, Java (DSA), Python, Shell Scripting

Projects

Cloud-Native DevSecOps Pipeline with Automated CI/CD on AWS EKS | [GitHub](#) 🐙 | [Blog](#) 📄

Technology Stack Used: Docker, Kubernetes, Jenkins, Terraform, AWS, Nexus, Trivy, SonarQube, Prometheus, Grafana

- **CI/CD Pipeline Automation:** Designed a Jenkins-based pipeline reducing deployment time by 85% (from 2hrs to 15 mins) with 100+ automated builds/month, integrating GitHub webhooks for event-driven triggers.
- **Kubernetes Orchestration:** Deployed applications on AWS EKS using Helm, set up RBAC, HPA, and configured NGINX with automatic HTTPS via Cert-Manager for zero-downtime deployments.
- **DevSecOps Integration:** Embedded Trivy and SonarQube into CI pipeline, achieving zero critical CVEs and 98% code coverage.
- **Monitoring Observability:** Set up Prometheus and Grafana to monitor health and receive alerts for CPU/memory spikes, fixing issues 60% faster.
- **Artifact Management:** Used Nexus as a central repository for Java artifacts, improving build times by 40%.
- **Infrastructure Automation:** Provisioned AWS VPC, EC2, IAM roles, and EKS via Terraform, cutting manual setup time from days to 30 minutes.

Enterprise-Grade Self-Managed Kubernetes Pipeline with DevSecOps | [GitHub](#) 🐙 | [Blog](#) 📄

Technology Stack Used: Docker, Kubernetes (kubeadm), Jenkins, Terraform, AWS, Nexus, Trivy, SonarQube, Prometheus, Grafana, Calico CNI, ArgoCD

- Built a production Kubernetes cluster using kubeadm (1 master + 2 workers) with Calico CNI, achieving 99% uptime.
- Automated CI/CD with Jenkins (150+ builds/month), SonarQube (98% coverage), Trivy, and ArgoCD.
- Reduced build times by 40% using Nexus for Java artifact caching.
- Provisioned AWS infrastructure using Terraform (VPC, EC2, IAM) in 30 mins versus 3 days manually.
- Secured ingress with NGINX and Cert-Manager TLS for capstonebankapp.in domain.
- Enforced DevSecOps with kubeaudit, Trivy scans, and SonarQube quality gates.
- Implemented observability using Prometheus (50+ metrics), Grafana (10+ dashboards), and Blackbox exporter.

Community Involvements

- **Attendee, KubeCon + CloudNativeCon 2024 (India):** Engaged with Kubernetes, GitOps, and cloud-native security; networked with professionals in DevOps and cloud.
- **Co-Organizer, Open Source Community Meetup – We Make Dev (Delhi):** Helped plan and run a developer meetup fostering knowledge sharing among open-source contributors.
- **Volunteer, FOSSCU (Free and Open Source Software Community United):** Contributed to open-source projects and supported tech event organization.
- **Technical Writing Blogging:** Published 15+ beginner-friendly articles on Kubernetes, DevOps, CI/CD, and Cloud on platforms like [Hashnode](#) and [Medium](#), reaching 5,000+ reads.