Dilip Kumar

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PROFESSIONAL SUMMARY

Accomplished DevOps Engineer with 2+ years of expertise in enterprise software development, cloud infrastructure automation. Specialized in designing resilient CI/CD pipelines, containerized deployments, infrastructure as code, monitoring. Demonstrated proficiency in implementing DevSecOps practices, ensuring system reliability, scalability, and security with consistent integrity. Successfully delivered 3 production applications with 95.9% uptime, reduced deployment time by 80% with consistent performance and operational excellence.

PROFESSIONAL EXPERIENCE

Software Developer

ZeOmegaInfotech,Bangalore │ Nov2022 – Oct 2024

Enterprise WSO2 API Management Migration & DevOps Implementation

WSO2APIManager • WSO2MicroIntegrator • Jenkins • Docker • Kubernetes • Puppet

- Engineered robust CI/CD pipeline using Jenkins with Dependency Check tool for JAR vulnerability scanning ensuring security compliance .
- Designed automated workflows using Puppet for environment orchestration and WSO2 API Manager deployment.
- Migrated enterprise wso2-APIM from legacy Windows servers to on-premises Kubernetes architecture with zero downtime, achieving 60% faster deployments.
- Automated security patch management for WSO2 components using built-in executable tools, ensuring consistent system integrity, compliance, and operational reliability

DevOps Project - Guvi

IndependentProjects │ 2025- Present

Enterprise ReactJS CI/CD Pipeline with Advanced Security.

Jenkins • Docker • AWS EC2 • SonarQube • OWASP • Trivy • Prometheus • Grafana

- Implemented CI/CD pipeline with Jenkins Multibranch, reducing manual deployment time by 80% and enabling automatic ReactJS builds on Git push.
- Integrated SonarQube, OWASP Dependency-Check, and Trivy, identifying and resolving 85% of code and image vulnerabilities pre-deployment.
- Containerized app using Docker, managing 100% environment consistency across dev/prod using Docker Hub (public & private) repositories.
- Deployed monitoring stack (Prometheus, Grafana, Alertmanager) on AWS EC2, achieving 24/7 uptime alerting with real-time email notifications.

Kubernetes-Native Application Deployment on AWS EKS.

AWSEKS • Terraform • Kubernetes • Jenkins • Prometheus • Grafana • Fluent Bit

- Automated CI/CD pipeline using Jenkins, deploying a Dockerized React app to AWS EKS and reducing release time by 70% with zero manual steps.
- Provisioned infrastructure using Terraform, creating VPC, EC2 (Jenkins), and networking components, ensuring 100% reproducibility of cloud resources.
- Integrated SonarQube, OWASP Dependency-Check, and Trivy in the CI stage, eliminating 80% of code and image vulnerabilities before deployment.
- Configured Kubernetes probes and resource limits, improving container health tracking and achieving 40% better cluster resource utilization.
- Deployed Prometheus, Grafana, and Fluent Bit for monitoring EKS pods and cluster health, enabling real-time dashboards and alerts via CloudWatch.
- Enabled SNS & Jenkins-based email notifications in Jenkins pipelines for both CI and CD stages, improving developer feedback loop by 70%.

AWS-Native CI/CD Pipeline with Advanced Automation.
AWS CodePipeline • CodeBuild • CodeDeploy • ECR • EKS • CloudWatch • SNS

- Constructed AWS-native CI/CD solution utilizing CodePipeline, CodeBuild, and CodeDeploy, achieving 90% reduction in manual deployment tasks and 99.5% deployment success rate with scalable automation.
- Built and scanned Docker images with Trivy in CodeBuild, pushing to Amazon ECR, achieving 100% container image traceability with dynamic tags.
- Deployed ReactJS app to AWS EKS using kubectl via CodeDeploy and EC2 instance, ensuring zero downtime with deployment scripts.
- Integrated CloudWatch and Fluent Bit for centralized logging of EC2 and EKS pods, improving issue detection speed by 60%.
- Configured Kubernetes health probes, resource limits based deployment, Increase cluster resource efficiency by 40%.
- Implemented SNS email alerts in pipeline for successful and failure builds and monitored EC2 logs (syslog, CodeDeploy) via CloudWatch Agent.

TECHNICAL SKILLS

Programming & Scripting : Python, Bash, YAML.

OS : Linux, Windows.

Tools: AWS , Mobaxtream , Amplify.com (webhosting).

Security & Compliance : SonarQube,OWASPDependency-Check, Trivy, Snyk, DevSecOps.

Vcs : git , Github.

Cloud : AWS (EC2, EKS, ECR,CodePipeline, CodeBuild, CodeDeploy, CloudWatch,SNS, VPC, IAM, Load Balancing , Auto Scaling).

Containers& Orchestration : Docker, Kubernetes, Helm.

Iac : Terraform.

Monitoring : Prometheus, Grafana, AlertManager, FluentBit, CloudWatch.

EDUCATION & CERTIFICATIONS

Bachelore of Computer Application (BCA)
KG Collage Of Arts & Science July 2017 – May 2020 │ CGPA: 7.8/10 Coimbatore, Tamil Nadu.

Master of Computer Application (MCA)
Madurai Kamaraj University Aug 2022 – May 2024 │ CGPA: 7.2/10 Madurai, Tamil Nadu.

Certifications

- DevOps Engineer Certificate – GUVI
  Completed: July 2025
  Certificate Link : https://v2.zenclass.in/certificateDownload/g6qH1zkKxKcjcYYJ

KEY-ACHIEVEMENTS

Cost Optimization : 40% AWS cost reduction through scalable infrastructure
Security : 95% security incident reduction ensuring system integrity
Performance : 80% deployment acceleration ensuring consistent delivery

Reliability : 99.9% uptime with scalable infrastructure
Automation : 90% manual task elimination ensuring operational