Manoj Kumar Chava

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Summary

DevOps Engineer with 2.5 years of experience automating CI/CD pipelines, containerizing applications with Docker and Kubernetes, and deploying infrastructure using Terraform and Ansible. Skilled in GitOps, AWS cloud services, and monitoring tools. Consistently improves deployment efficiency, system reliability, and reduces manual interventions.

Technical Skills

- **CI/CD & Version Control:** Jenkins, GitHub Actions, Git, GitHub, GitLab
- **Containerization:** Docker, Kubernetes, Argo CD, Helm
- **Build Tools & OS:** Maven, Gradle, Shell, Linux, Bash, YAML
- **Cloud & Infrastructure:** AWS (EC2, IAM, VPC, S3, RDS, EKS), Terraform, Ansible
- **Monitoring & Logging:** Prometheus, Grafana, ELK Stack

Professional Experience

Cognizant Technology Solutions — Bengaluru, India
Programmer Analyst (DevOps) — Oct 2022 – Feb 2025

Responsibilities

CI/CD Pipelines & GitOps:

- Designed and implemented CI/CD pipelines in Jenkins for build, test, and deployment automation, reducing deployment time by 40%
- Configured Jenkins plugins and jobs to support efficient CI/CD workflows across multiple environments
- Implemented GitOps using Argo CD to automate Kubernetes deployments, reducing configuration drift and manual interventions
- Created pipeline templates for reuse across projects, standardizing deployment processes
- Integrated automated testing into CI/CD workflows, improving code quality and reducing production issues

Containerization & Orchestration:

- Built and Containerized microservices using Docker. creating optimized & reusable Docker images with multi-stage builds, reducing image size.
- Managed and maintained Docker images in **c**ontainer registries such as Docker Hub, Amazon ECR, or JFrog Artifactory, ensuring version control and accessibility.
- Setup Kubernetes (k8s) control plane, creating pods, replica sets, creating volumes, services, namespaces, writing & modifying YAML scripts to create pods, replica sets, namespaces.
- Mastered Kubernetes Ingress and Implementation of Kubernetes Ingress for multiple micro services ensuring efficient traffic routing & external access.
- Created and managed Amazon EKS clusters on AWS using Terraform, automating infrastructure provisioning and ensuring scalability.

AWS Cloud & Infrastructure as Code:

- Managed AWS infrastructure using Terraform (EC2, IAM, VPC, S3, RDS, EKS) following infrastructure- as-code best practices
- Configured IAM roles, policies, and security groups following least privilege principles for secure access
- Set up Load Balancers (ALB/NLB) and Auto Scaling Groups to ensure application availability under varying loads
- Developed reusable Terraform modules for managing infrastructure consistently across development, staging, and production

- Automated software installations and configuration updates with Ansible playbooks across multiple Linux servers
- Configured Terraform remote backend and state locking mechanism using S3 and DynamoDB for secure collaborative infrastructure management

Monitoring & Logging:

- Designed Grafana dashboards to visualize system metrics from Prometheus with custom alerting rules
- Analyzed application and system logs from Docker containers and Kubernetes pods using Kibana and kubectl
- Created alert rules in Prometheus with notifications to Slack and email for proactive incident response

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PROJECT

E-Commerce Microservices Migration | AWS, Docker, Kubernetes, Terraform

- Migrated a monolithic e-commerce application to a microservices architecture using Docker containers and Kubernetes
- Played a key role in containerizing 5 core microservices (product catalog, content management, shopping cart, user account, payment) using Docker with multi-stage builds
- Configured Kubernetes deployments for assigned services, implementing proper health checks and resource limits
- Automated deployment processes using Argo CD, reducing deployment errors by 90%
- Designed and implemented a CI/CD pipeline that reduced deployment time from 2 hours to 20 minutes
- Configured auto-scaling that handled a 300% traffic increase during sales events with zero downtime
- Implemented infrastructure-as-code using Terraform for consistent environment provisioning.
- Set up monitoring dashboards in Grafana that improved incident response time by 65%

Education

Sri Venkateswara College of Engineering, Andhra Pradesh, India
Master of Computer Applications (MCA) | October 2020 – November 2022

Languages: English, Telugu