Naveen Thurkapally

DevOps Engineer • AWS Certified • CI/CD Specialist

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Professional Summary

Experienced DevOps Engineer with expertise in CI/CD pipelines, IaC, and automation. Proficient in Docker, Kubernetes, and AWS, recognized for enhancing organizational efficiency through streamlined deployments and enhanced system reliability.

Technical Skills

- **Cloud & Cloud Services** : AWS (EC2, S3, VPC, IAM, EFS, etc.)
- **Containerization & Orchestration** : Docker, Kubernetes, EKS, Helm
- **Integration & Deployment (CI/CD)** : Jenkins, ArgoCD, Git-Hub Actions
- **Infrastructure as Code (IAC)** : Ansible, Terraform
- **Build & Artifact Management** : Maven, Nexus, JFrog
- **Version Control** : Git, Git-Hub
- **Methodologies** : Agile, SDLC
- **Security Tools** : SonarQube, Trivy
- **Scripting lang** : Shell, Bash, YAML, Groovy
- **Other Skills** : Linux, Apache, Nginx, Tomcat

Professional Experience

DevOps Engineer, *Tata Consultancy Services*   *Mumbai, 11/2022 - Present*

- Streamlined version control processes by enhancing branch management and establishing clear protocols for merge conflict resolutions; centralized management of 50+ Shell, Terraform, and Ansible scripts, improving code organization and reducing integration errors by 40%.
- Achieved a 30% reduction in deployment time by optimizing CI/CD processes using Kubernetes, Docker, and orchestrated manifest management with Jenkins and Argo CD.
- Mentored junior engineers by creating and delivering training materials, boosting team productivity by 30%, and resolving blockers in daily stand-ups to ensure smooth project progress.
- Developed automated deployment scripts, accelerating release cycles by 40% using Ansible and Terraform for automation and infrastructure management.
- Minimized Docker image size by **900MB** (from **1GB to 100MB**) using multi-stage builds, leading to **50% faster** deployments and **40% savings** on storage costs in our production environment.
- *Technologies used:* Ansible, Terraform, Jenkins, GitHub Actions, Docker and Kubernetes.

Junior DevOps Engineer, *Tata Consultancy Services*   *Hyderabad,* 02/2022 - 11/2023

- Converted more than 20 freestyle jobs into automated pipelines using Groovy declarative scripts, resulting in a 50% decrease in deployment errors and a 20% increase in team productivity by implementing robust CI/CD practices.
- Streamlined CI/CD pipelines with Maven and Jenkins, integrating SonarQube for code quality analysis; achieved a 40% reduction in build times and increased deployment frequency from bi-weekly to weekly, enhancing overall productivity.
- Improved application scalability and reliability by orchestrating Docker containers with Kubernetes, achieving a 99.9% uptime and seamless scaling during peak traffic periods.
- Engineered an end-to-end CI/CD solution, reducing feature deployment time from **4 hours to 10+ minutes,** enhancing deployment frequency and operational agility.
- *Technologies used:* Jenkins, Maven, SonarQube, Nexus, Docker, Docker-Hub, Kubernetes

Personal Projects

Mastering VPC Creation with Terraform & GitHub Actions: *GitHub*

- Created a VPC infrastructure with subnets, internet gateway, route tables, EC2 instances, and an application load balancer using Terraform and GitHub Actions, achieving secure, scalable, and orchestrated deployments.
- **Technologies:** Terraform, GitHub Actions, AWS VPC, IAM, EC2

Innovative Deployment Pipeline: *GitHub*

- Designed and implemented a fully innovative CI/CD pipeline using Jenkins, Docker, Kubernetes, and ArgoCD, with monitoring via Prometheus and Grafana. Reduced deployment time by 50% and increased deployment frequency, enhancing release efficiency and system reliability.
- **Technologies:** Jenkins, Docker, Kubernetes (K8s), ArgoCD, Prometheus and Grafana

Certifications

- **AWS** Certified Cloud Practitioner   *Credly*
- **AWS** Certified Solutions Architect - Associate   *Credly*

Education

- **Bachelor's Degree** | Jawaharlal Nehru Technological University Hyderabad   *India | 05/2016 - 04/2020*