

MOHAMMAD REHAN KHAN DevOps Engineer

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SUMMARY

An aspiring DevOps Engineer with a passion for automating operational processes and implementing solutions in continuous integration and continuous deployment (CI/CD). I have gained hands-on experience in DevOps and Cloud-Computing, working with various modern technologies that power today's SDLC.

Projects

End-to-End CI/CD Pipeline Using Jenkins, Docker, Kubernetes, and ArgoCD

- This project developed an end-to-end CI/CD pipeline using Jenkins for CI, Kubernetes with EKS and ArgoCD for CD, and Docker for containerization, achieving 90% automation in build and deployment processes. The pipeline supports scalable polyglot applications with GitOps-based deployments on EKS for consistency. It enhances operational efficiency, security, and observability, making it ideal for dynamic, large-scale environments.

Automated Flask Application Deployment using Jenkins and Docker

- Developed a fully automated CI/CD pipeline for a Flask Python application using Jenkins, Docker, and Github SCM integration.
- Achieved complete automation of build and deployment with version-controlled Docker images.
- Integrated real-time GitHub SCM polling using webhooks to trigger Jenkins pipelines.
- Implemented automated Docker Hub publishing, streamlining image delivery and eliminating manual steps.
- Technologies used: Flask, Python, Jenkins, Docker, GitHub, Docker Hub.

Advanced DevSecOps CI/CD Pipeline with Jenkins, Terraform, ArgoCD, & AWS EKS

- Built a fully automated, secure, and scalable end-to-end DevSecOps pipeline deploying a three-tier microservices application on Amazon EKS using Terraform, Jenkins, and ArgoCD
- Automated complete infrastructure provisioning (VPC, IAM, EKS, ECR, etc.) using Terraform, triggered directly via Jenkins pipelines.
- Created Jenkins stages to build Docker images, scan for vulnerabilities, push to Amazon ECR.
- Integrated ArgoCD to perform declarative GitOps-based deployments to EKS across multiple environments (dev, staging, prod).
- Followed DevSecOps best practices including IAM security, vulnerability scanning, and network isolation across CI/CD stages.
- Technologies used: Jenkins, Terraform, ArgoCD, AWS EKS, Docker, GitHub, ECR, Kubernetes, IAM, VPC.

WordPress Deployment with MySQL in Multi-Project AWS Environment

- Deployed a highly available WordPress application using Amazon Web Services (AWS). The development environment hosted WordPress on AWS and EKS, while the production environment housed a MySQL database with private IP connectivity. Configured firewall rules, IAM policies, and Cloud Monitoring, ensuring 99.99% uptime and secure data access.

Skills

- Linux • Bash/Shell Scripting • Docker • AWS • Git • GitHub • Networking • Kubernetes • Jenkins
- Python • MYSQL • ArgoCD • Ansible • Terraform

Experience

Technical intern at Linuxworld:

01/2025 – Present | Jaipur, India

- Gained hands-on experience in DevOps practices by working with tools such as Docker, Kubernetes, Jenkins, ArgoCD, Ansible, and Linux environments.
- Deployed and managed containerized applications using Docker and Kubernetes, ensuring scalability and high availability.
- Configured CI/CD pipelines with Jenkins and integrated Git-based workflows to automate build, test, and deployment processes. Implemented GitOps practices using ArgoCD for continuous delivery in Kubernetes clusters.
- Automated server configuration and provisioning using Ansible playbooks to ensure consistent and repeatable deployments.

Education

Bachelor of Engineering in Computer Science (BE, CS)

2022 | Mumbai

SMT. INDIRA GANDHI COLLEGE OF ENGINEERING Ghansoli

Overall Percentage: 61.73%