

MOHAMMED BASHEER AHMED

DevOps Engineer

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As a DevOps Engineer, I am interested in optimizing the development pipeline to enhance efficiency, reliability, and scalability of software delivery. My role encompasses a blend of software development, system operations, and collaboration with cross-functional teams to automate processes and streamline deployments.

TECHNICAL SKILLS

- Cloud Platforms: AWS(EC2,S3,IAM,RDS,ALB/NLB,Cloud Formation, Lambda),Azure pipelines, Monitoring, Log analytics, Key vault, RBAC, GCP.
- Infrastructure as Code (IaC): Terraform, Cloud Formation.
- CI/CD Tools: Jenkins, GitHub Actions, Git Lab, Octopus.
- Containerization & Orchestration: Docker, Kubernetes.
- Monitoring & Logging: Cloud Watch, New Relic ,Prometheus, Grafana.
- Version Control: Git, GitHub.
- Operating Systems: Linux, Ubuntu, Windows.
- Scripting: Python, Bash, Shell.

PROFESSIONAL SUMMARY

Cloud DevOps Engineer with 4 years of experience in hybrid cloud environments, including 3.5 years with AWS and Azure and 1 year in on-premises infrastructure. Expertise in automating deployments, optimizing infrastructure, and managing CI/CD pipelines to ensure scalability and efficiency. Proficient tool Terraform, Kubernetes, Jenkins, and Ansible with a proven track record of reducing costs and improving system reliability.

PROFESSIONAL EXPERIENCE

DevOps Engineer | Tata Consultancy Services

May 2021–Present

- Automated deployment pipelines using Jenkins and Terraform, reducing provisioning time by 40%.
- Managed AWS resources, including **EC2,S3,RDS,and IAM** roles, to maintain a scalable and secure infrastructure.
- Designed and deployed Kubernetes clusters to orchestrate **Docker** containers, ensuring high availability and scalability.
- Reduced AWS costs by 20% through resource optimization and deregistering unused AMIs.
- Monitored application performance using New Relic and Cloud Watch, responding proactively to system alerts.
- Implemented AMI patching processes using Octopus Deployment, ensuring compliance across 200+ servers.
- Enhanced CI/CD pipelines by integrating Terraform scripts, improving deployment efficiency.
- Configured Elastic Load Balancers with Auto Scaling Groups to handle traffic spikes efficiently.
- Collaborated with cross-functional teams to design infrastructure solutions for hybrid environments.
- Developed automation scripts using **Bash, Shell, and Python** to streamline routine tasks such as log rotation, server health checks, and backup operations.
- Integrated **custom Python scripts** into Jenkins pipelines for dynamic parameter handling, API integrations, and automated validations.

- Developed and deployed end-to-end **machine learning** models using Python, scikit-learn, and AWS SageMaker to automate predictive analytics and improve decision-making accuracy.
- Designed and implemented CI/CD pipelines using **GitHub Actions** to automate build, test, and deployment processes for containerized applications across staging and production environments.
- Collaborated with cross-functional teams to collect, clean, and engineer features from large datasets, resulting in a 20% improvement in model performance.
- Integrated **IoT** devices with cloud platforms to collect, process, and analyze real-time sensor data, enabling predictive maintenance and operational efficiency improvements.
- Hands-on experience in writing and managing **YAML** files for configuring CI/CD pipelines, **Kubernetes** deployments, and infrastructure automation.
- Proficient in working with **Virtual Machines, Azure Active Directory, Virtual Network, Blob Storage, Functions, Database, Azure Service Bus, and Azure CLI** for deploying, managing, and troubleshooting cloud resources.
- Hands-on experience with **Google Cloud Platform (GCP)** services including **Compute Engine, IAM, VPC, Cloud Storage, Serverless solutions** (Cloud Functions, Cloud Run), and **Cloud SQL**.
- Skilled in managing GCP **Kubernetes (GKE)**, Pub/Sub messaging, and monitoring/troubleshooting using Google Cloud Operations Suite (formerly **Stackdriver**).
- Implemented **DevSecOps** practices by integrating security scanning and compliance checks into CI/CD pipelines to ensure secure code delivery.
- Managed and maintained artifact repositories like **Nexus** and **JFrog Artifactory** for storing build artifacts, version control, and supporting automated deployments.
- Configured centralized logging using Elastic Stack (**Elasticsearch, Logstash, Kibana**), Fluentd, and **Splunk** for real-time log analysis and troubleshooting.
- Deployed robust monitoring solutions with **Prometheus, Grafana, Datadog, and New Relic** to track application health, performance metrics, and system alerts.

KEY ACHIEVEMENTS

- Improved system uptime by 15% by optimizing Kubernetes deployment strategies.
- Reduced deployment failures by 20% through enhanced CI/CD pipeline automation.
- Delivered a cost-saving initiative that saved 30% on AWS resource utilization.

KEY PROJECTS

Cloud Migration for Enterprise Applications

- Migrated 50+ on-premises applications to AWS, utilizing Terraform for IaC to reduce provisioning time by 60%.
- Designed scalable Kubernetes clusters to support microservices architecture, improving application reliability.
- Automated CI/CD pipelines using Jenkins, enabling faster delivery cycles for development teams.

Cost Optimization and Infrastructure Automation

- Implemented AWS cost management practices, reducing monthly expenses by 20%.
- Automated patch management for AMIs using Octopus Deployment, ensuring compliance and security.
- Designed and maintained Cloud Formation templates for automated infrastructure deployment.

CERTIFICATIONS

- AWS Certified Solutions Architect – Associate
- Certified Kubernetes Administrator (CKA)(Planned)

EDUCATION

Under Graduate	KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL B.Tech Electronics And Communication Engineering – 7.2 CGPA
Diploma	SVS Group of Institutions ECE - 71.3%
School	ZPHS, Kothapalli Class X - 7.5 CGPA

LANGUAGE

- English
- Urdu
- Telugu

PERSONAL DETAILS

- Date of Birth: 20/01/1999
- Gender: Male