

MUHAMMED AFSAL T K

Senior DevOps Engineer



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ABOUT ME

DevOps / Cloud Engineer with 10+ years of experience in AWS and Azure environments, specializing in infrastructure automation, container orchestration, and CI/CD pipelines. Proven expertise in building scalable, highly available systems, implementing security best practices, and leading cross-functional projects across GCC, India, and Europe. Adept at solving complex infrastructure challenges and optimizing deployment workflows.

EDUCATION

Vinayaka Mission University | 2009-2013

Batchlor of Engineering in Electronics And Communication (BE)

WORK EXPERIENCE

- **Western International Group/Nesto Group | Dubai | 2022 - Till date**
Senior DevOps Engineer
- **Thomson Reuters | Bangalore | 2016 - 2022**
DevOps Engineer
- **IBM India | Bangalore | 2015 - 2016**
Desktop Support Engineer
- **Wipro Infotech | Bangalore | 2014 - 2015**
Remote Desktop Support Engineer

SKILLS

- Devops Technologies
- Cloud Computing Technologies(AWS, AZURE)
- CI/CD
- Configuration Management
- Databases
- NoSQL
- Security
- Agile Methodologies
- AI / MLOps
- Bigdata On prem setup
- Infrastructure As A Code
- Source Code Management
- Containerization
- Kubernetes
- Elasticsearch
- Web Servers
- Automation
- Networking
- bedrock
- Cloud architecture
- Sagemaker
- Argo_cd
- Jenkins
- Operating System - Linux
- Operating System - Windows
- Infrastructure Management
- Scripting
- Monitoring
- Virtualization
- Installing and configuring runtime environments

SUMMARY OF EXPERINACE

- Implemented and maintained continuous integration and deployment pipelines to streamline software development processes, reducing deployment time by 50%.
- Collaborated with cross-functional teams to design and automate infrastructure provisioning and configuration management, resulting in a 40% increase in system stability.
- Led the migration of on-premises infrastructure to a cloud-based environment, leveraging AWS services and implementing infrastructure-as code principles, resulting in a 30% reduction in operational costs.
- Developed and maintained monitoring and alerting systems, ensuring high availability and performance of critical applications, with 99.9% uptime achieved and proactive issue resolution.
- Created fully automated pipeline to build and deploy the application using Jenkins for Continuous Integration and Delivery, Terraform for Infrastructure provisioning and Ansible to configure the infrastructure and application.
- Implementing high-availability configurations for critical systems. Developing and testing disaster recovery plans and backup strategies.
- Helped development team to released application builds very often on multiple environment like Dev, Stage, Test, PreProd, Prod.
- Extensively used build automation tools like MAVEN, NPM for the building of deployable artefact.
- Analyzing and monitor performance bottlenecks and key metrics to optimize software and system performance.
- Executing and modifying existing Ansible playbooks for configuration management in existing production and non-production infrastructure as per the need.
- Experience of managing Infrastructure on cloud of more than 15 applications including E-commerce, Mobile application and web applications in multiple environment.
- Supported development teams by building, maintaining, and scaling infrastructure to support applications that are used by millions of users.

RESPONSIBILITIES IN AWS CLOUD

- Launching Amazon EC2 instances of different sizes with load balancing and autoscaling using Amazon Images and Configuring launch instances with respect to specific applications and monitoring EC2 instance metrics like CPU Utilization
- Created S3 buckets and managed policies and utilized S3 bucket and Glacier for storage and backup on AWS.
- Setting up databases in AWS using RDS including Microsoft SQL server, MySQL, DynamoDB, Amazon Aurora.
- Configure and manage the Security Groups, Network ACL, VPC, Subnets, Lambda, Cloud Watch, Route53 and SSL services.
- Knowledge of monitoring of all resources using CloudWatch, API call logging using CloudTrail and Cost management using cost explorer.
- Configuring IAM (User, Roles management)
- experience in cloud formation and terraform
- Designing and deploying dynamically scalable, available, fault-tolerant, and reliable applications on the Cloud
- Actively manage, improve, and monitor cloud infrastructure on AWS,EC2
- Reviewed all AWS accounts and environments to avoid additional costs, decreasing 43% of quarterly bills using multiple options provided by the cloud.

KUBERNETES ADMINISTRATION

- Managing cluster components such as control plane nodes, worker nodes, and etcd.
 - Ensuring high availability and scalability of Kubernetes clusters
 - Experience in Managing Kubernetes objects like pods, services, deployments, and stateful sets.
 - Implementing CI/CD pipelines for containerized applications using tools like Jenkins, or ArgoCD.
 - Experience in Amazon EKS(Elastic Kubernetes service)
 - Replication Controllers and ReplicaSets
 - Experience in Helm Chart and Deployment
 - Motivated and guided developer to containerized the big application into micro services architecture.
 - Setting up monitoring solutions Prometheus and Grafana to track cluster health. Centralized logging (e.g., ELK Stack) for troubleshooting and analysis.
 - Optimizing resource allocation within the cluster for cost efficiency. Defining resource quotas and limits for application pods.
 - Implementing GitOps principles for declarative cluster configuration and application deployment. Using tools like ArgoCD or Flux for GitOps workflows.
 - Implementing Kubernetes RBAC (Role-Based Access Control) and Network Policies. Scanning container images for vulnerabilities and applying security patches.
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CERTIFICATIONS

- **AWS Certified Cloud Practitioner | April 2023 - April 2026**
 - **Fundamentals of Machine Learning and Artificial Intelligence**
 - **CKA Certification Course - Certified Kubernetes Administrator**
 - **AZ900: Microsoft Azure Fundamentals**
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PERSONAL INFORMATION

- **Website - <https://muhammedafsal.com>**
- **Linkedin - [linkedin.com/in/muhammed-afsal-tk-6019b5142](https://www.linkedin.com/in/muhammed-afsal-tk-6019b5142)**
- **Visa Status: Employment visa**
- **Availability: 30 days Notice**