

Muhammad Haris

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Profile Summary

Cloud Engineer specializing in **AWS, DevOps, and Infrastructure as Code, Kubernetes, System and Design** with hands-on experience designing and deploying **highly available, scalable, and production ready cloud applications** using AWS and Terraform. Experienced in building **CI/CD pipelines, containerized workloads, cloud infrastructure, and automated DevOps workflows**, with a focus on reliability, security, scalability, and operational efficiency. Currently leveraging **Agentic AI** to enhance CI/CD automation and accelerate software delivery.

Technical Skills

Cloud: AWS(EC2, RDS, Lambda, S3, VPC, Route53, DynamoDB, Alb, ASG) , GCP

Operating System: Linux

Infrastructure as Code: Terraform

Containers & Orchestration: Docker, Kubernetes

CI/CD & DevOps: GitHub Actions, Jenkins, Argo CD

Programming Languages: Python, JavaScript, TypeScript, SQL, C/C++

Backend & Databases: Node.js, PostgreSQL, MongoDB

Frontend: React, Next.js, HTML5, CSS3, Tailwind CSS

Version Control & Tools: Git, GitHub

Projects

Production-Grade AWS EKS Cloud Platform

- End to end production-oriented cloud native platform that provisions AWS infrastructure using Terraform, deploys containerized applications on Amazon EKS, securely integrates with the RDS and AWS Secrets Manager, exposes applications through an AWS ALB and HTTPS integration using ACM and Route 53, and uses CI/CD, GitOps, observability, security, scalability, and disaster recovery capabilities.
- Implemented the Secure AWS-Kubernetes integration using the EKS OIDC, IRSA and IAM least privileged-policies and the AWS load balancer controller enabling Kubernetes workloads to access AWS services without static credentials.
- Designed automated Industry grade CI/CD and GitOps workflows using GitHub Actions, Docker, Trivy, Amazon ECR, and Argo CD for testing, security scanning, image delivery, and Kubernetes deployments..
- Designed for high availability and disaster recovery through multi-AZ deployment, Kubernetes autoscaling, PodDisruptionBudgets, AWS Backup, database recovery, DNS failover, and recovery simulations.
- Designed an observability stack using **Prometheus, Grafana, Loki, and CloudWatch** for infrastructure metrics, application monitoring, centralized logging, and operational visibility.

Github: <https://github.com/muhdhares/florence>

THREE TIER AWS ARCHITECTURE

- Provisioned 3-tier AWS architecture using terraform, reducing manual setup time by ~80%; implemented ALB+ASG across 2 AZs for high availability.
- Tech Stack: AWS (VPC, EC2, ALB, ASG, RDS), Terraform, Docker, Networking (Subnets, Security Groups, NAT Gateway, Internet Gateway).
- Secured inter-service communication using **layered AWS Security Groups**, restricting traffic between ALB, frontend, backend, and Amazon RDS MySQL based on least-privilege port access.
- Multi-AZ Amazon RDS MySQL, S3-based ALB access logging, IAM resources, VPC networking, NAT Gateway, and supporting infrastructure entirely through **modular Terraform IaC**.

Github: github.com/muhdhares/aws-three-tier-architecture-with-terraform

Education

Teerthanker Mahaveer University, Moradabad

B.C.A in Artificial Intelligence and Cloud Computing

Aug 2024 – Aug 2027

Last Year CGPA: 8.4

