

MOHAMMAD OWAIS KHAN

AWS & DevOps Engineer

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TECHNICAL SKILLS

- **Cloud & DevOps:** AWS (EC2, S3, VPC, EKS, IAM, Lambda), Kubernetes, Docker, Terraform, ArgoCD
 - **CI/CD & Automation:** Jenkins, Git, GitHub, Maven, Nexus, SonarQube
 - **Monitoring & Security:** Prometheus, Grafana, AWS CloudWatch, Trivy
 - **Scripting & OS:** Bash, Linux (Ubuntu)
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PROJECT EXPERIENCE

DevSecOps MERN Stack Deployment on AWS

Tools: Terraform, AWS (VPC, EC2, EKS), Jenkins, Docker, SonarQube, Prometheus

- Automated infrastructure deployment using **Terraform**, reducing setup time by 50%.
- Containerized the MERN stack app with **Docker**, reducing image size by 30% via multi-stage builds.
- Enhanced CI/CD pipelines through the integration of Helm and Jenkins, achieving a 40% reduction in release cycle time, resulting in faster feature deployment and improved overall development efficiency.
- Integrated **SonarQube** and **Trivy** in Jenkins for pre-deployment security scans, fixing 40+ code issues and 15+ vulnerabilities.
- Set up **Prometheus** and **Grafana** dashboards, improving incident resolution time by 35%.
- Improved log management with **AWS CloudWatch**, increasing debugging efficiency by 30%.
- Configured Jenkins **webhooks** for automatic pipeline triggers on code commits, reducing manual intervention and improving development agility by 30%.
- Orchestrated **SMTP email alerts** in **Jenkins** for build/deployment notifications, cutting notification delays by 40% and speeding up resolution of critical issues in production cycles.

Highly Available Web Architecture on AWS

Tools: AWS (VPC, ALB, RDS), PHP, Apache, MySQL

- Deployed a **Multi-tier, highly available web application** on AWS using **VPC** with public and private subnets across multiple availability zones for **99.9% fault tolerance**.
 - Leveraged **Route 53** for DNS routing and an **Application Load Balancer (ALB)** to distribute traffic across EC2 instances, reducing latency by **20%**.
 - Set up **NAT Gateway** and **Internet Gateway** for secure subnet communication.
 - Managed **Amazon RDS** for MySQL database in private subnets, for secure and scalable data storage.
 - Automated deployment of **Apache, PHP, and phpMyAdmin** on EC2 instances using shell scripts for zero-downtime updates.
 - Enforced security best practices by using a **Bastion Host (Jump Server)** for SSH access and restricting database access to reduce attack surface by 40%.
 - Configured **AWS ALB** target groups with session stickiness, enhancing user experience and retention by 20%.
 - Slashing infrastructure costs by **25%** using AWS Free Tier and right-sizing resources.
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CERTIFICATIONS

- **DevOps Beginner to Advanced with Projects** | Udemy
- **AWS DevOps Course Track** | Full Stack Academy

EDUCATION

- **Bachelor of Engineering (BE-IT)**
 - **Lords Institute of Engineering & Technology | 2021-2025 | CGPA: 8.41**
 - **Telangana State Board of Intermediate Education**
 - **Sri Chaitanya Junior College | 2019-2021 | 92%**
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ACHIEVEMENTS

- **AWS Challenge Certificate** | Full Stack Academy
 - **DevOps Challenge Certificate** | Full Stack Academy
 - **Linux Challenge Certificate** | Full Stack Academy
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LINKS

- **LinkedIn:** www.linkedin.com/in/mohammad-owais-khan-devops/
- **Github:** <https://github.com/Owais84>

