

MUNAWAR AHMED KHAN

AWS, DevOps Engineer

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OBJECTIVE

In pursuit of a role within an innovative organization where I can bring my passion for learning, enthusiasm and adaptability to fuel continuous personal and professional development.

EXPERIENCE

FULL STACK ACADEMY

July-2024 – Present

DevOps Engineer (Intern)

- I leverage Linux(ubuntu) operating systems, including shell scripting with a focus on Bash Scripting.
- I actively work with various AWS services, including EC2, S3, VPC, ELB, Auto Scaling, Cloud Formation, EBS, Elastic BeanStalk and Others.
- Set up and managed AWS services: EC2, S3, VPC, RDS, IAM, ELB, Route 53, CloudWatch.
- I have expertise in both AWS CI/CD and Jenkins CI/CD implementations.
- Utilized Git/GitHub for version control and collaborative development.
- My DevOps skillset encompasses Git/GitHub, Jenkins, Maven, SonarQube, Ansible, Docker, and Terraform, Grafana, Prometheus.

EDUCATION

Deccan College Of Engineering & Technology

2024

Bachelor Of Engineering (BE-IT)

CERTIFICATIONS / ACHIEVEMENTS

- DevOps Beginner to Advanced with Projects (Udemy)
- AWS & DevOps Certificated 2024 (Full Stack Academy, Hyderabad)

SKILLS:

AWS:

EC2, IAM, S3, ECS, EKS, RDS, SNS, VPC, EFS, EBS, Elastic Beanstalk, AWS Cloud Formation, Load Balancer, Auto Scaling, Route 53, CloudWatch.

DevOp Tools:

Jenkin, Maven, SonarQube, Ansible, Terraform, Docker, Kubernetes, Nagios, Grafana, Prometheus.

Version Control:

Git & GitHub

SCRIPTING:

Shell Script, Bash Script

DEVELOPMENT:

HTML,CSS

OS:

Linux, Windows

PROJECTS

Deployment and CI/CD Implementation for a React Application:

- Implemented CI/CD pipeline on AWS for a React application.
- Secured access with sudo user and managed environment (Node.js, npm).
- Deployed with PM2 and Nginx reverse proxy for efficiency and security.
- Automated builds with Jenkins pipeline (Git, build, deploy, S3 upload).
- Scripted environment setup with OpenJDK installation and logging.
- Dockerized the application and utilized Docker Compose for management.

Containerized E-commerce Microservices Application Deployment:

- Developed Docker Compose YAML and multistage Dockerfiles for each microservice (Nginx served as API gateway, Angular handled the client frontend, Node.js managed the app API, java provided the books API) using vs code. Pushed the source code on a Git repository for version control.
- Executed docker compose build and docker compose up commands for container deployment.
- Accessed the application using the instances's public IP address.
- Achieved scalable and maintainable deployment through containerization. Simplified management of multi-container applications using Docker compose. Improved resource utilization and efficiency in the deployment process

Highly Available Web Application on AWS:

- Designed a scalable web application architecture on AWS using **VPC** for network isolation and multiple **Availability Zones** for high availability.
- Deployed **LAMP servers** on **EC2 instances**, utilizing an **Application Load Balancer (ALB)** to evenly distribute traffic for improved performance.
- Utilized **Route 53** for DNS management and implemented secure data storage with **RDS (MySQL)** in private subnets, ensuring reliability and fault tolerance.
- Focused on delivering a robust, flexible, and scalable architecture for enhanced performance and disaster recovery.

CICD Pipeline for 3 tier Java Application to deploy Using Jenkins, SonarQube , Nexus, Slack, Docker, Kubernetes

- Deployed and configured Jenkins on Ubuntu VMs, integrating it with tools like Trivy for security scans, SonarQube for code quality analysis, and Nexus for artifact management.
- Developed Jenkins pipeline with stages for Git checkout, Maven build, testing, SonarQube analysis, Docker image creation, and deployment to Kubernetes.
- Built and tagged Docker images for the application and pushed them to Docker Hub using Jenkins.
- Deployed the application to a Kubernetes cluster using `kubectl`, ensuring scalable and efficient orchestration.
- Set up monitoring with Prometheus, Grafana, Node Exporter, and Blackbox Exporter for system and application metrics visualization.