

Muhammad Awab Ahmed

DevOps Engineer



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SUMMARY

Experienced professional in AWS cloud services, Dockerization, and CI/CD pipeline implementation. Skilled in Python and AWS ECS deployment. Committed to security and effective client communication.

SKILLS

Devops

Aws

Terraform

Github

Git

Ansible

Docker

React.js

Asp.net

Databases

EDUCATION

Bachelor Of Computer Science: Computer Science

Air University, Islamabad

CGPA: 3.2

Jul 2021 - Jul 2025

WORK EXPERIENCE

DevOps Engineer Intern

Bytewise Limited, Islamabad

Jan 2023 - Apr 2023

- Utilized various AWS services including EC2, EBS, RDS, Secrets Manager, Parameter Store, Load Balancers (ALB, NLB), ECS, CloudFront, VPC, Route53, S3, KMS, and IAM.
- Designed and executed comprehensive CI/CD pipelines for client applications using tools such as Jenkins and Github Actions.
- Orchestrated Dockerization and proficiently deployed microservices on AWS Elastic Container Service (ECS).
- Skillfully documented technical intricacies of applications for effective client communication.
- Enforced and supervised the implementation of security best practices across deployed infrastructures.

DevOps Engineer

Cyberoide, Islamabad

May 2023 - Present

- Utilized various AWS services including EC2, EBS, RDS, Secrets Manager, Parameter Store, Load Balancers (ALB, NLB), ECS, CloudFront, VPC, Route53, S3, KMS, and IAM.
- Designed and executed comprehensive CI/CD pipelines for client applications using tools such as Jenkins and Github Actions.
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PROJECTS

Full Stack Web Application Deployment Via Terraform & Ansible on Aws

- Deployed a full stack web application on EC2 instances within auto-scaling groups, utilizing an Elastic Load Balancer to efficiently distribute traffic flow.
- Implemented dynamic auto-scaling policies (Step Scaling & Target Tracking) to ensure optimal availability and cost-effectiveness.
- Developed Terraform custom modules for automated deployment across Dev, Staging, and Production environments, facilitating streamlined deployment processes.

Web Application Deployment on ECS

Containerization of web application via custom Docker files for deployment on an ECS cluster. Task scaling on same EC2 node was ensured via aws-vpc networking mode. Scaling of EC2 instances was insured via capacity providers.

DOCKER CONTAINERIZATION

- Automated deployment of .NET application and SQL container within Docker environment, incorporating an nginx container for reverse proxy functionality, leading to a **40% decrease in deployment duration**.
- Effectively orchestrated the seamless push of Docker containers to ECR and DockerHub repositories, streamlining the deployment process and **reducing container distribution time by 25%**.

JENKINS CICD

- Automated deployment of .NET application and SQL container within Docker environment, including an nginx container for reverse proxy, resulting in **reduced deployment time by 40%**.
- Orchestrated the seamless pushing of Docker containers to ECR and DockerHub repositories, achieving 20% faster container distribution and **reducing manual errors by 95%**.
- Successfully established a Jenkins server to automate the build and deployment processes of the .NET application, leading to a **30% reduction in manual intervention** and saving over 15 hours per week.
- Implemented a highly efficient continuous integration (CI) pipeline, **reducing build failures by 25%** and **shortening release cycles by 30%**.
- Automated the execution of unit tests and generated comprehensive test reports, ensuring code quality and stability and **increasing test coverage by 15%**.
- Enabled seamless continuous delivery (CD) by automating application deployment to the test/staging environment, **resulting in a 50% reduction in deployment errors** and a **40% faster time to market**.
- Executed the implementation of an approval-based mechanism for secure deployments to the production environment, **reducing production incidents by 70%** and ensuring compliance with change management processes.

LANGUAGES

English | Urdu