Hasnain Tahir

Cloud & DevOps Engineer

+92 (303) 596-0385 | [hasnaintahir79@gmail.com](mailto:hasnaintahir79@gmail.com) | [LinkedIn](https://www.linkedin.com/in/hasnain-tahir-601b8b18b/) | Pakistan

# Executive Summary

A DevOps expert specializing in AWS Cloud with over 6+ years of experience. Specializes in CI/CD automation, infrastructure as code, and containerization. Proven capacity to collaborate with clients worldwide, driven by business needs to deliver value and impact.

# Functional Expertise

* Design and manage AWS Infrastructure (ECS, VPC, EC2, EKS, Lambda, S3, IAM, CloudWatch, Load Balancer)
* Build CI/CD Automation Pipelines (Azure DevOps, GitHub Action, GitLab)
* Manages Infrastructure as Code (Terraform, CloudFormation)
* Version Control: GitHub, bitbucket, GitLab
* Manage Container Orchestration (Docker, Kubernetes, ECS)
* Linux System Administration: Managing various Linux distributions (Debian, Fedora, Arch)
* Server Management and Deployment: Deploying apps on various servers using Nginx, PM2
* Scripting & Automation: Bash, PowerShell, Python.
* Enable Monitoring & Alerting
* Serverless Framework.

# Functional Expertise Demonstrated

**Job Title: DevOps Specialist** ([EZFacility](http://www.ezfacility.com/)) Mar 2024 - Present

EZFacility is a global leader in web-based software solutions for sports and fitness businesses. With over a decade of unmatched expertise in sports and fitness facility management, EZFacility delivers innovative technology that helps thousands of users streamline their daily operations and efficiently manage their facilities.

* Migrated CI/CD pipelines to Azure DevOps, optimizing workflows and automating processes to reduce deployment times by 30% and accelerate feature delivery.
* Automated CI/CD pipelines to streamline deployments across multiple environments.
* Orchestrated a seamless AWS account migration, optimizing S3, EC2, RDS, and Windows server transitions with minimal downtime.
* Configured Transit Gateway peering, cross-account resource sharing, and least-privileged IAM roles for secure, streamlined access management.
* Maintained AWS infrastructure, ensuring high availability through proactive resource management and performance assessments.
* Enhanced operational efficiency and ensured smooth releases with robust automation.
* Leveraged Datadog for real-time monitoring, performance tracking, and system reliability
* Conducted troubleshooting and performance tuning, achieving a 40% reduction in downtime by implementing diagnostic procedures to quickly identify and resolve issues.
* Optimized application configurations and resources while establishing monitoring alerts for proactive intervention, significantly enhancing system reliability.
* Focused on scalability, cloud resource optimization, and improving service uptime.
* Collaborated with cross-functional teams to ensure seamless integration between development and operations.

**Job Title: DevOps Engineer** ([Eurus Technologies](https://www.eurustechnologies.com/)) Jan 2019-Mar 2024

An IT services firm that provides Cloud and DevOps related consultancy services with ~60+ employees serving SMEs across America and Europe with clients like nClouds, ScaleOps, and West Myra.

* Hands-on experience with Dockerizing applications and deployed Docker containers to transform monolithic applications into microservices, greatly enhancing developer productivity, scalability, and performance.
* Designed and implemented architectures for various projects (e.g. [CyberCube](https://www.cybcube.com/) and [nClouds](https://www.nclouds.com/)), including three-tier, microservices, serverless, event-driven, and container-based architectures on AWS.
* Designed and managed cloud infrastructure from scratch, with version control, documentation, security, and linting to ensure reliable and secure infrastructure.
* Working in an international scrum team of 10, in charge of provisioning the infrastructure with Terraform, cloud formation, and automation Python, Bash, and IaC.
* Reduced compute costs by up to 50% by developing workflows running on Lambdas responsible for automated provisioning of EC2 spot instances for compute-intensive background jobs.
* Managed multi-account AWS environments with various roles for specific workflows.
* Automation of various repetitive and time-bound services using shell and python scripts as well as lambda functions.
* Engineered and maintained automated CI/CD pipelines for seamless code deployments across multiple environments, leveraging AWS CodePipeline, GitHub Actions, and GitLab CI/CD.
* Deployed and operated applications on ECS and AWS EKS (Kubernetes), spanning over ~20+ nodes at peak load. Ensured smooth scalability, upgrades, and deployment using Helm.
* Collaborate with Developers for developing microservices using SAM

**Junior DevOps Engineer (**[**Code Frenetics**](https://www.codefrenetics.com/)**)** Aug 2018-Jan 2019

Code Frenetics (SMC-Private) Limited, based in Islamabad, is a full-stack software development company collaborating on projects from Saudi Arabia, Europe, and the United States.

* **AWS Services Implementation:** Implemented various AWS services, ensuring meticulous study and configuration for optimal performance.
* **Linux-based Server Management:** Configured and maintained multiple Linux-based web servers, enhancing server reliability and performance.
* **IT Infrastructure Setup:** Set up IT infrastructure on AWS Cloud, ensuring robust and scalable solutions.
* **Scripting and Automation:** Developed shell scripts for automation, improving operational efficiency.
* **Documentation:** Documented all practical implementations of services, providing comprehensive references for future use.
* **Collaboration:** Worked closely with senior engineers to learn best practices and contribute to project goals.

# Projects

## ECS Deployment for Multi-Service Application:

Deployed four services (backend, admin, frontend, tracking service) on Amazon ECS with load balancing and auto-scaling. Configured continuous deployment pipelines to automate updates and ensure minimal downtime. Monitored and optimized resource utilization, reducing operational costs by 20%.

## GKE Cluster Deployment:

Deployed admin, backend, and frontend services on a Google Kubernetes Engine (GKE) cluster. Implemented Helm charts for version management and seamless updates. Enhanced application performance by setting up horizontal pod autoscaling and cluster monitoring with Prometheus and Grafana.

## CI/CD Pipeline Automation:

Developed and implemented an automated CI/CD pipeline using GitLab for a microservices architecture. Integrated testing and security scans into the pipeline, ensuring code quality and compliance. Streamlined the deployment process, reducing cycle time by 50% and increasing team productivity.

## Infrastructure as Code with Terraform:

Automated the provisioning of cloud infrastructure using Terraform for a multi-cloud environment (AWS and GCP). Created reusable modules to standardize configurations across environments. Improved deployment speed by 60% and reduced manual errors by 70% through automated workflows and consistent infrastructure management.

## High Availability Database Cluster:

Set up a highly available MySQL database cluster using Amazon RDS with Multi-AZ deployment. Implemented automated backups and failover mechanisms to ensure data integrity and availability. Reduced downtime to less than 1% and improved disaster recovery capabilities.

## Advanced Monitoring and Security Integration:

Implemented advanced monitoring and security tools, including Snyk and Datadog, for a cloud-native application. Configured real-time vulnerability scanning and alerting, integrating with CI/CD pipelines to ensure continuous security compliance. Improved detection and remediation of security issues by 50%, enhancing overall application reliability and performance.

## Cloud Migration Project:

Led the migration of a complex application stack from AWS to GCP. Assessed and planned the migration strategy, ensuring minimal downtime and data integrity. Utilized GCP services such as Google Compute Engine, Google Cloud Storage, and Google Cloud SQL to replicate AWS functionalities. Improved cost efficiency by 25% and enhanced performance metrics post-migration.

# Achievements / Certifications

[AWS Certified Cloud Practitioner](https://www.credly.com/badges/e8f15a6f-2d53-45e8-8dc0-6331f7a8a6dc/public_url)

AWS Certified Solution Architect Associate

# Education

Bachelor of Science ( Computer Science ) Air University Islamabad

# Soft skills

* Problem-Solving
* Collaboration
* Communication
* Time management
* Adaptability
* Client Relation

**Language**

* English: Fluent
* Urdu: Native