


# Muneeb Uddin Ahmed

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## Summary

Highly motivated, results-driven & versatile Multi-Cloud & DevOps Engineer with 3 years of experience designing, deploying, and managing scalable, high-availability infrastructures across AWS, Azure, and Google Cloud. Proven expertise in optimizing CI/CD pipelines, containerization (Docker, Kubernetes), and Infrastructure as Code (IaC). Skilled in leveraging modern DevOps practices to deliver secure, reliable, and innovative solutions, with a focus on performance, cost-efficiency, and scalability.

## Professional Experience

**Cloud Support & DevOps Engineer, Sherdil Cloud** – Karachi, Pakistan June 2022 — Present

- Engineered and deployed scalable, secure, and resilient cloud infrastructures across leading cloud platforms.
- Managed and resolved complex cloud infrastructure issues, ensuring optimal performance and reliability.
- Built and configured cloud infrastructure from scratch, adhering to industry best practices.
- Provided end-to-end support for cloud solutions, including deployment, monitoring, troubleshooting, and optimization.
- Designed and implemented tailored cloud infrastructure architectures, prioritizing high availability, durability, and scalability.
- Efficiently deployed applications using containerization (Docker, Kubernetes) and Infrastructure as Code (Terraform, CloudFormation).
- Automated cloud resource provisioning and management with tools like Terraform and Ansible.
- Configured and managed secure, scalable virtual desktop solutions.
- Contributed to significant cloud migration initiatives, orchestrating seamless workload transfers to various cloud platforms.
- Established robust network security and access controls using firewall technologies in cloud and hybrid environments.

**DevOps Engineer, Matrix Systems Pvt. Ltd** – Karachi, Pakistan Oct 2023 - Dec 2024

- Collaborated cross-functionally with development teams, integrating DevOps best practices and providing guidance on automation and deployment strategies.
- Engineered and deployed scalable Kubernetes solutions using Helm charts on Azure Kubernetes Service (AKS), ensuring efficient application management.
- Automated backend build processes via Jenkins, significantly streamlining development workflows and reducing manual intervention.
- Developed and maintained robust GitHub Actions workflows, including custom notifications and configuring self-hosted runners (Windows/Linux) across various repositories.
- Constructed end-to-end CI/CD pipelines for containerized applications, encompassing Docker image builds, pushes to AWS ECR, and deployments to AWS ECS using parameterized inputs.
- Executed performance testing on Azure-managed SQL instances, simulating diverse workloads from Kubernetes pods to validate database resilience.
- Established and administered a Kubeadm-based Kubernetes cluster locally, demonstrating hands-on proficiency in container orchestration.
- Delivered internal training sessions on GitHub and AWS, enhancing team proficiency in version control, CI/CD, and cloud infrastructure.
- Implemented a Proof of Concept (PoC) to integrate GitHub with Jira, enabling automated branch creation from Jira issue names and IDs for QA-identified defects.

## Education

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### NED University of Engineering and Technology (NEDUET)

Master of Science in Information Security

Mar 2023 - Dec 2024

### Department of Computer Science UBIT, University of Karachi (UoK)

Bachelor's in Computer Science

June 2017 - Dec 2020

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## Projects

- **Alibaba Cloud Migration & HA Firewall Setup:** Successfully migrated on-premise infrastructure to Alibaba Cloud VMware Services (ACVS), utilizing RackWare for secure data and application transfer with minimal downtime. Additionally, deployed and configured FortiGate firewall VMs in High Availability (HA) mode and integrated migrated machines with Active Directory for centralized access control, followed by thorough post-migration validation.
- **AWS EC2 & RDS Cross-Account Migration:** Executed a seamless migration of EC2 instances and RDS databases to a new AWS account, restoring them to their original operational state. This involved designing a custom, highly available VPC configuration with public/private subnets, route tables, and NAT Gateways.
- **Automated Tomcat Deployment:** Developed a script to automate the deployment and configuration of .war files on Tomcat servers, including fetching the latest SVN tags, significantly streamlining application updates.
- **AWS ECR & ECS Deployment Pipelines:** Engineered comprehensive CI/CD pipelines to automate Docker image builds, push to AWS ECR, and deploy applications to AWS ECS, enhancing continuous delivery capabilities.
- **Cloud Security Audit & Optimization:** Identified and addressed security vulnerabilities in AWS Cloud using Security Hub and Trusted Advisor, resulting in a comprehensive security sheet with recommended best practices for enhanced security and cost optimization.
- **Infrastructure Compliance & Security Enhancement:** Analyzed infrastructure security compliance using Audit Manager and Security Hub, successfully identifying and implementing best practices to ensure robust infrastructure security posture.
- **Startup Web Application Deployment on AWS:** Deployed Dockerized React front-end and PHP Laravel back-end applications using AWS Elastic Beanstalk, improving scalability and ensuring 99.9% uptime for a local client's startup.
- **CI/CD Pipeline Security Integration:** Integrated Jenkins with SonarQube to automate the scanning of builds and source code for vulnerabilities, enhancing overall code quality and security within the CI/CD pipeline.
- **Java Build & Release Pipeline with GitHub Actions:** Configured GitHub Actions pipelines to build Java applications (.jar, .war) and automate release tagging, streamlining the software delivery process.
- **Application Deployment on AWS EKS:** Deployed a containerized application to AWS EKS using a custom Docker image from a private repository, managing deployments with Kubernetes Pods, Deployments, and Services.
- **Static Website Deployment via GitHub Actions & S3:** Integrated GitHub Actions with AWS S3 to establish a CI/CD pipeline for static website deployment, automating code synchronization to an S3 bucket for instant updates.
- **Cross-Account S3 to EFS Data Migration:** Orchestrated cross-account data migration from AWS S3 to EFS using AWS DataSync, including the configuration of necessary IAM roles and S3 bucket policies.
- **Tomcat Deployment on AKS with Helm & Azure DevOps:** Deployed a Tomcat application on Azure Kubernetes Service (AKS) leveraging Helm charts managed through an Azure DevOps repository, ensuring efficient application rollout.
- **ArgoCD Implementation on AWS EKS:** Successfully configured and deployed ArgoCD within an AWS EKS Kubernetes environment, utilizing namespaces, deployments, and AWS Load Balancers for robust application management.
- **Scalable Web Application Deployment on AWS Elastic Beanstalk:** Deployed a local startup's web application (Dockerized React frontend, PHP Laravel backend) via AWS Elastic Beanstalk, ensuring scalability and 99.9% uptime.
- **Jenkins & SonarQube Integration for Code Security:** Integrated Jenkins with SonarQube to automate vulnerability scanning of builds and source code, enhancing software quality and security.
- **AWS EC2 Kubernetes Cluster Configuration:** Configured a Kubernetes cluster on AWS EC2 using Kubeadm (single master, multiple worker nodes) with Calico as the CNI, demonstrating cloud-based orchestration expertise.
- **Continuous Deployment with ArgoCD & Kubernetes:** Enabled continuous deployment of containerized

applications by integrating a private GitHub repository with Kubernetes manifest files via ArgoCD, automating updates and rollbacks.

- **Infrastructure Provisioning with IaC (CloudFormation & Terraform):** Provisioned highly available AWS infrastructure (VPCs, EC2 with auto-scaling, load balancing) utilizing Infrastructure as Code (IaC) tools like CloudFormation and Terraform.
- **Automated Infrastructure & Application Deployment:** Designed and implemented a fully automated pipeline using Terraform for EC2 provisioning and Ansible for application deployment, streamlining infrastructure setup.
- **Cloud Security Assessment & Optimization:** Identified AWS Cloud security loopholes using Security Hub and Trusted Advisor, creating a security sheet that suggested best practices and cost optimization strategies.
- **Security Best Practices Implementation:** Ensured compliance and enhanced infrastructure security by leveraging Audit Manager and Security Hub to analyze and apply security best practices.
- **GitHub-Jira Integration PoC:** Led a Proof of Concept (PoC) for GitHub-Jira integration, automating branch creation directly from Jira issues to improve workflow efficiency.
- **GitHub Actions & Self-Hosted Runner Configuration:** Developed custom GitHub Actions workflows, including email notifications, and configured self-hosted runners across multiple repositories to optimize CI/CD processes.
- **Secure & High-Availability AWS Infrastructure Design:** Designed and deployed a highly available AWS infrastructure (VPC, NAT Gateway) with AWS Managed Microsoft AD and Workspace management. Enhanced security through Active Directory GPOs for policy enforcement and integrated TNTDrive with S3 as well as FSx as a Network drive for secure folder mapping.
- **Azure SQL Performance Testing:** Conducted stress and load testing on Azure-managed SQL instances by simulating workloads from Kubernetes pods, ensuring database reliability under various conditions.
- **Nginx Load Balancer Implementation:** Implemented an Nginx-based load balancer on local servers to efficiently optimize and distribute application traffic
- **S3 Mount on WHM cPanel Server:** Configured an S3 Bucket as a volume directory on a WHM server using S3FS, providing enhanced data storage visibility and management.

## Technical Skills

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**Databases:** MSSQL, MySQL

**Cloud Platforms:** AWS, Azure, Google Cloud Platform (GCP)

**AWS Services:** IAM, S3, CloudFront, CloudTrail, CloudWatch, VPC, Lambda, EC2, Elastic Load Balancing, EC2 Autoscaling, Route 53, Systems Manager, EFS, App Runner, SNS, Eventbridge, DynamoDB, RDS, Elastic Beanstalk, CloudFormation, Command Line Interface (CLI), DataSync, Lightsail, Managed Active Directory, WorkSpaces, FSx, Transfer Family.

**Azure Services:** VNet, Virtual Machines, SQL, SQL Managed Instance, ACR, DevOps (Basics), App Service, AKS.

**Google Cloud Platform (GCP) Services:** IAM & Admin, VPC, Compute Engine, Cloud SQL, Cloud Build, Cloud Run, Artifact Registry, Kubernetes Engine, Cloud Shell, App Engine, Cloud Storage.

**DevOps Tools & Practices:** Linux, Linux Bash Scripting, Python Scripting, GitHub & GitHub Actions, BitBucket, GitLab, Jenkins, Ansible, Terraform, DataDog, Docker, Kubernetes, Helm, ArgoCD, ELK Stack, Prometheus & Grafana.

**Security & Other Tools:** SonarQube, Trivy, Burp Suite, Pfsense Firewall, FortiGate Firewall, Wazuh SIEM, Palo Alto Firewall, Nessus, Maltego, Wireshark, Shodan.io

**Soft Skills:** Team Leadership, Agile, Customer Support, Can-Do Attitude

**Training:** Cloud DevOps & Security best practices

**Professional Growth:** Timezone Overlap, Goal Setting, Delegation

**Languages:** English (B2 – professional communication)