UZAIR MANSOOR

DevOps Engineer (3x AWS Certified)

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Experience Summary

- Substantial experience in overseeing cloud infrastructure operations, developing CI/CD pipelines through CodePipeline and GitHub Actions, and establishing efficient monitoring and logging mechanisms to ensure optimal software delivery.
- Hands-on experience in infrastructure automation using Cloud Formation, Terraform, CDK and Ansible.
- Possess proficiency in Linux and Windows administration.
- Proficiency in containerization such as Docker and container orchestration using Kubernetes.

Professional Experience

Netsol Technologies (AWS Consulting Partner) Lahore, Pakistan
Software Engineer / DevOps Engineer June 2022 - to date

Projects

- **Application Migration to AWS**
  Provisioned the AWS infrastructure using CloudFormation for a WordPress application that was previously hosted on GoDaddy servers. As part of the migration process, I ensured scalability using Auto Scaling, fault-tolerant with a multi-AZ approach, and implemented logging and monitoring through CloudWatch Alarms. Additionally, I enhanced security using AWS WAF and CloudFront Policies, and established a DR setup using the AWS Backup service.
- **Real-time market data with Apache Flink, MSK and PrivateLink**
  Provisioned the AWS infrastructure for real-time stock exchange data using CDK templates. Automated delivery of stock market data utilized AWS services, including data ingestion through EC2, stream processing with Amazon MSK and Apache Flink, and data visualization via OpenSearch Dashboard. Emphasizing secure data distribution to customers VPCs through AWS PrivateLink.
- **Automated EKS Deployments with CI/CD**
  Designed, deployed, and managed a single-node EKS cluster with CI/CD pipelines and a rollback strategy, along with CloudFormation templates for one-click deployment. Additionally, implemented a web application using ALB ingress controller for internet accessibility.
- **Private API Access via API Gateway with VPC Endpoint and Transit Gateway**
  Developed a secure, scalable architecture enabling access to private APIs from multiple consumer accounts using AWS Transit Gateway. Integrated AWS services such as Transit Gateway, VPC interface endpoints, and API Gateway to ensure seamless communication between the service provider and consumers' VPCs. This architecture ensures high availability, security, and efficient communication across multiple accounts for accessing private API Gateway endpoints.
- **RoleFit: Scalable and Secure HR Automation System Architecture with AWS and AI Integration**
  Developed RoleFit, an AI-driven HR system facilitating secure user authentication with AWS Cognito and Google Login. Designed and deployed a scalable architecture using AWS ECS Fargate for backend and FastAPI services and AWS S3 with CloudFront for frontend hosting, supported by AWS CodePipeline for automated CI/CD. Integrated OpenAI models to analyze resumes and generate job descriptions, leveraging DynamoDB for efficient data storage. Ensured system security with AWS WAF for DDOS and cross-site protection.

PufferSoft Lahore, Pakistan
Software Engineer Jan 2022 - June 2022

- Proficient in Git for version control, enabling efficient code management and seamless collaboration in team environments.
- Strong Linux skills, with expertise in essential commands and system administration, allowing for smooth navigation and management of server environments.
- Experienced in Azure DevOps, with a focus on setting up CI/CD pipelines, managing repositories, and automating workflows for streamlined software development and cloud operations.
- Delivered presentations and training sessions on Git, Linux, and Azure DevOps, effectively conveying technical concepts and best practices to teams and colleagues.

Technical Skills

Cloud Platform:	AWS EC2, Elastic Beanstalk, Lambda, ELB, ECS, EKS, ECR, Systems Manager, CodePipeline, CloudTrail, S3, AWS RDS, AWS Backup, ElastiCache, API Gateway (REST APIs, WebSocket APIs) and many others.
Networking:	VPC, Route 53, CloudFront, Global Accelerator, AWS Transit Gateway, AWS VPN, Amazon VPC Peering, AWS PrivateLink and networking protocols (DNS, HTTP/HTTPS, DHCP, RDP/SSH, FTP etc)
Security:	AWS IAM, AWS WAF, Secrets Manager, ACM and many others.
Containerization:	Docker, Kubernetes
Databases	RDS, DynamoDB, DocumentDB, MongoDB
Monitoring	ELK Stack, Dynatrace, Solarwinds, RedGate, CloudWatch, etc
Other DevOps Tools:	CircleCI, Terraform, Ansible, CDK, GitHub Actions
Software Tools:	VS Code, DBeaver, MongoAtlas, Git, JIRA, Slack, Trello, Microsoft SharePoint and others.

Education

University of Engineering and Technology (UET Lahore) — Lahore, Pakistan
Bachelor of Science (Electrical Engineering)
Majors: Computer Science — 2018 - 2022

Additional Experience

Certifications and Accreditations:

- HashiCorp Certified: Terraform Associate – (2024)
- AWS Certified Cloud Practitioner - (2024)
- AWS Certified Solutions Architect – Associate – (2023)
- AWS Certified Developer - Associate - (2022)
- AWS Partner: Accreditation (Technical)
- AWS Partner: Accreditation (Business)
- AWS Partner: Cloud Economics Accreditation