

DANISH ASIF

Cloud Engineer at Qavi Tech

I'm experienced in setting up and managing Cloud-based infrastructure based on Azure,aws,gcp and DO along with devops best implementation for applications & Infrastructure. My skill set includes but is not limited to the following:

Microsoft Azure : 3xCertified

Azure VMs | VMSS |Vnet | Load Balancers | VPN | Blob and file storage| Azure Synapse | Azure Data Factory | Azure Backups | Azure Recovery Vaults | VM Snapshots | App Services | Entra ID | Conditional Access | Identities and RBAC

AWS:

AWS VPC | S3 | EC2 | Lambda | RDS | IAM | SNS | AWS Event Scheduler | Cloud Watch | AWS Backup

Google Cloud:

GCP VPC | Compute Engine | Managed Instance Groups | Load Balancers

Digital Ocean:

Droplets & firewalls

Gitlab,Bitbucket CICD Dockers Kubernetes Terraform, Open VPN and ELK / NewRelic for

Skills & Strengths

- | | | |
|-----------------------------|---------------------------------|--------------------------|
| • Microsoft Azure | • Virtual Machine | • AWS S3 |
| • AWS Lambda | • AWS RDS | • AWS SNS |
| • Azure vnet | • GCP VPC | • Azure Storage Account |
| • AWS Event Scheduler | • GCP managed instance groups | • GCP Load Balancing |
| • GCP compute engine | • Azure Load Balancing | • RBAC |
| • Entra ID | • Virtual Machine Scale Set | • Microsoft Azure. |
| • Cloud IAM and Monitoring. | • Devops and pipelines. | • Worked on Azure VMs |
| • VMSS | • Vnet | • Load Balancers |
| • VPN Gateways | • Blob and file | • storage and SAS tokens |
| • Azure Backups | • Azure Recovery Service Vaults | • VM Snapshots |
| • App Services | • AWS VPC | • S3 |
| • EC2 | • Lambda | • RDS |
| • IAM | • Instance Groups | • kubernetes |
| • NewRelic | | |

Experience - 3 years

Cloud and Devops Engineer

QAVI TECH - Karachi, Pakistan | **Mar 2024 - Present**

Cloud Platforms:

- **AWS:** Elastic Beanstalk, EC2, RDS , IAM, AWS Backup, Cloud watch, VPC, Event Scheduler , Load Balancer
- **Azure:** App Services, VMs, VNet, Entra ID, Azure SQL, Load Balancer , Log Analytics, Azure Monitor

Contact Info

Karachi
Pakistan
danish.asif.7190@gmail.com
03488949779

Education

University of Karachi
Karachi / BS Software Engineering
(2023)
3.2 GPA

Certifications

- Microsoft Certified: DevOps Engineer Expert Microsoft | 2023
- Microsoft Certified: Azure Administrator Associate Microsoft | 2023
- Microsoft Certified: Azure Fundamentals Microsoft | 2023

Languages

- Urdu - Native
- English - Medium

Hobbies

- Books

- **DigitalOcean:** Droplets

Cloud Infrastructure & Deployment:

- Migrated **AWS Elastic Beanstalk** instances from **public to private VPCs**, ensuring secure internal communication between microservices.
- Designed and deployed **multi-environment CI/CD pipelines** (development, staging, production) using **Bitbucket**.
- Managed **EC2 backups** to ensure high availability and disaster recovery.
- Optimized **AWS RDS performance**, ensuring seamless application integration.
- Administered **Azure App Services, VMs, and VNETs** for scalable hosting.

DevOps & Automation:

- Automated cloud tasks using **Ubuntu Linux** for EC2 instances.
- Implemented **GitLab CI/CD pipelines**, integrating with **SonarQube** for continuous code quality checks.
- Managed **Infrastructure as Code (IaC)** with **Terraform** for AWS and Azure resource provisioning.
- Deployed and maintained **Docker containers** to support microservices architecture.
- Configured **AWS SNS** for application notifications and alerts.
- Utilized **AWS CloudWatch** for real-time monitoring and operational insights.

Additional Tools & Technologies:

- **OpenVPN** – Secure remote access to cloud environments.
- **Elasticsearch & New Relic** – Search and analytics solutions.
- **MySQL** – Application data management.
- **MongoDB** - Application data management
- **Jenkins**- For continuous delivery
- **SonarQube** - For code analysis

Cloud Engineer

SHERDIL CLOUD - Karachi, Pakistan | Jan 2024 - Mar 2024

Responsibilities:

- Developed and managed **code pipelines** in Azure, GCP, and AWS.
- Configured **load balancers** and **application gateways** for traffic distribution.
- Monitored **RBAC (Role-Based Access Control)** and **IAM roles** for access management.
- Configured **VM backups** to ensure disaster recovery.
- Automated cloud operations using **AWS Lambda functions**.
- Set up **S3 for storage** and **RDS for databases** in AWS.
- Monitored cloud infrastructure in **Azure** and **AWS** for performance and security.

Tools & Technologies:

- **Azure:** Storage Account, Storage Account Security, Terraform, Network Security, VMs, Load Balancing, Entra ID, RBAC, App Services.
- **AWS:** EC2/VM, VPCs, Lambda, S3, RDS, IAM, CLI, Load Balancers, Application Gateway, NSGs.
- **Containers & Orchestration:** Docker, Kubernetes.

Microsoft Azure Consultant

SCAPTIX - Karachi, Pakistan | Mar 2023 - Jan 2024

1. Worked on Azure Active Directory for RBAC, Privileged access and conditional access policies.
2. Onprems to Azure Infra design.
3. Azure administration
4. Managing Azure linux and windows vms
5. Managing Entra ID workloads for different accounts
6. Performing on prems to azure server migrations

MERN Developer

STRADA IMAGING - Karachi, Pakistan | Mar 2022 - Mar 2023

Web Development & UI Engineering:

- Built **responsive and user-friendly** web applications using **React.js / Next.js**.
- Managed application state efficiently with **Redux**.
- Ensured seamless integration between front-end and back-end by closely collaborating with **UI/UX designers** and **back-end developers**.

Code Quality & Best Practices:

- Participated in **code reviews**, following best practices for **clean, efficient, and maintainable code**.
- Implemented **unit tests and integration tests** to maintain code quality and reliability.

Performance & Optimization:

- Contributed to **performance optimization** for faster load times and better responsiveness.

Agile & Collaboration:

- Actively participated in **Agile/Scrum** workflows, including **sprint planning** and **daily stand-up meetings**.

Projects

Canary7 DEV STG and PROD CICD Pipelines

Qavi Technologies | Apr 2024 - Present

Tools: Gitlab , AWS EC2, AWS Cloud Watch, AWS SNS, AWS Elastic Beanstalk, RDS, Ubuntu Linux,Elastic Search

1. Setup Elastic beanstalk environemnts for dev, staging and prod environments.
2. Setup Gitlab CICD pipelines for deployment in ec2 ubuntu linux.
3. Setup elastic search node and integrate it with environments to get logs and metrics.
4. Setup RDS and alerts with SNS topics and subscriptions for users.
5. Setup Cloudwatch logsd agent in all servers to get logs.
6. Setup SNS alerts for ec2 CPU, Memory and disk usage
7. Setup Elasticsearch alerts for ec2 instance dow or up states.

AWS 3 tier architecture application deployment

Tools: EC2, Autoscaling, Load Balancer, RDS

1. Made a linux ec2 in aws
2. Installed apache2 init and made its ami backup
3. Made Autoscaling with ami image
4. Attached loadbalancer with it.
5. Accessed site with loadbalancer public endpoint
6. Accessed and connected RDS database inside the ec2.

Sonarqube implementation

Qavi Technologies

Tools: sonarqube, dockers, Ec2, Gitlab

- Implemented the sonarube for Gitlab repositories using dockers

Azure Data Engineering Pipeline

Tools: Azure Data Factory, Azure Databricks, Azure Synapse Analytics

End-to-end data pipeline to process and analyze Tokyo Olympics data using Azure Cloud services. Here's a quick breakdown of what I did:

Data Ingestion:

Source: Raw Olympics data (CSV files) from GitHub.

Pipeline: Utilized Azure Data Factory (ADF) to create an ETL pipeline extracting data from GitHub and loading it into Azure Data Lake Storage Gen2 (ADLS Gen2).

Data Processing:

Tool: Azure Databricks.

Process: Mounted ADLS Gen2 to Databricks using OAuth authentication.

Loaded raw data (e.g., athletes.csv, coaches.csv, genderentries.csv, medals.csv, teams.csv) into PySpark DataFrames.

Conducted data transformations:

Schema validation and data type casting.

Calculated insights like:

Top countries with the most gold medals.

Average entries by gender for each discipline.

Saved the transformed data back to ADLS Gen2 for further analysis.

Data Analysis:

Tool: Azure Synapse Analytics.

Process:

Connected Synapse to the transformed data in ADLS Gen2.

Ran SQL queries and built visualizations to analyze the Olympics data.

Generated actionable insights for reporting and decision-making.

Tech Stack:

Azure Data Factory (ETL pipeline)

Azure Data Lake Storage Gen2 (data storage)

Azure Databricks (data processing with PySpark)

Azure Synapse Analytics (data analysis and visualization)

AWS CLI Pipeline, Decrypt Encrypted dump files with OpenSSL and place them in a separate S3 bucket and then upload them to RDS- Oracle DB

Sherdil Cloud

Tools: AWS CLI, AWS S3, AWS RDS-Oracle, Github

1. Made a Github-Aws automation workflow.
2. Transferred dump files from a S3 to other S3 bucket.
3. Decrypted and unzipped those files with OpenSSL and place them in a separate S3.
4. Uploaded files to RDS-Oracle and automated whole process with Github workflow and actions with YAML file

Azure-Terraform 3 Tier Architecture with Load balancers, Databases and VM

Sherdil Cloud

Tools: Vnet, Virtual Machines, Load balancers, VMSS Network Security Groups

1. Setup 3 Tier Architecture on Azure and deployed site on VMSS.
2. Accessed site through Loadbalancer's public endpoint.
3. Made DB connection with VMs privately.
4. Wrote a terraform script deploys whole infrastructure with azure.

GCP 3 Tier Architecture with Compute Engine Loadbalancers and SQL

Sherdil Cloud

Tools: GCP VPC, Compute Engine, Managed Instance Groups Load balancers, Firewall Rules, Cloud SQL

1. Setup 3 Tier Architecture on GCP
2. Deployed app of compute engine and instance groups for auto scaling.
3. Configured public load balancer
4. Made private db connection with machines.

AWS Lambda pipeline to upload database logs from Oracle RDS to S3 and generate a Email on upload

Sherdil Cloud

Tools: AWS Lambda, Oracle RDS,VPC, S3 , SNS, AWS Event Scheduler

1. Made a AWS lambda pipeline in node js that collects logs from Oracle RDS database.
2. Then upload those logs to S3.
3. When logs get uploaded to S3 then email was sent to a user with AWS SNS and this whole process was automated with AWS Event Scheduler to run this lambda function every day at 8:00 pm.

NODE JS APP DEPLOYMENT TO AZURE APP SERVICES with Terraform

Sherdil Cloud

Tools: Azure App Services, Github

1. Deployed a Node JS app on Azure App services.Automated deloyment through CICD setup in app services through Github actions.
2. Made deployment slots for quick swapping from development to production stage
3. Deployed whole project with Azure-Terraform.

Azure VM backup, Snapshots, Files and Folder Backups with Azure Recovery Service Vault

Sherdil Cloud

Tools: Azure Recovery Service Vault, VM

1. Configured Backup for Azure Virtual Machines through Azure Recovery Service Vault.
2. Setup Rentention period and backup polices and time.
3. Configured time for vm snapshots.
4. Configured Backup for files and folders with Azure Recovery Service Vault

AZURE FIREWALL, ROUTE TABLE , P2S CONNECTIVITY AND NETWORK SECURITY ON VNET

Sherdil Cloud

Tools: Vnet,Firewall, NSG, Route Table, VPN Gateway, NSG

1. Setup Azure firewall on vnet and cfgured NSG rules.
2. Added route table and added routes of subnets.
3. Configured NSG rules for network Established connection of vnet to a local on prems machine through Azure VPN Gateway
4. Successfully tested connection through vnet ICMP ping.

Azure VMSS and load balancer with Terraform

Sherdil Cloud

Tools: VMSS

Write terraform code that deploys vmss with in azure and attaches a load balancer with it.

Created a virtual machine scale set in azure and install IIS server and configure a custom site in that. Made scaling rules based on cpu mertics >60% and load on server.

Azure Automation Account

Sherdil Cloud

Tools: Azure automation accounts, active directory, powershell, service principal , IAM
Registered an app in Azure Ad. Make it user assigned identity. Assign it roles to run Azure Automation Scripts to run a script inside Azure Automation Account to start and stop vm on a specific time. All the manual involvement of Authenticaoin should be removed.

Automated VM Deployment with Managed Instance Group and Autoscaling on

Google Cloud Platform

Tools: GCE , Autoscaling , Instance Groups

Utilized Google Cloud Deployment Manager to create a template for virtual machine deployment and configuration. Integrated Managed Instance Groups with Autoscaling to ensure dynamic resource allocation based on demand, leveraging Distributed Virtual Private Cloud (VPC) for network isolation and efficient management of VM instances

Azure-Terraform CICD with application deployment

Sherdil Cloud

Tools: Terraform, Azure , VS Code, VM

Built a complete pipeline that automates the process of creating the vm in azure with the help of terraform and then deploys the applicatoin by fetching code from gitlab repository. The automation script includes the creation of vm through terraform then pulling code and configuring nginx server.