

Roshaan Zahid

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Cloud Computing and DevOps professional with 2 years of expertise in Google Cloud Platform, Azure Cloud and DevOps Automation. Proficient in a wide range of cloud services, including Kubernetes, Docker, Monitoring and Alerts, Storage Services, and Virtual Machines. Skilled in infrastructure as code using Terraform, and build automation/deployment with Azure CI/CD pipelines. Extensive experience configuring CI/CD pipelines using YAML, Powershell and build automation tools to build Windows, MAC, and Linux applications and deploying them to the Cloud. Additionally, experienced in building containerized images using Docker for deployment to Kubernetes. Passionate about leveraging cloud technologies to optimize performance and scalability while driving business growth and success

Highlights

- Worked with Google Cloud Platform and Azure Cloud.
- Configured, deployed, managed and maintained infrastructure on the Google Cloud Platform using orchestration tools such as Terraform.
- Deployed, maintained and monitored application deployment to the GCP. Configured Log Based Metrics and Alerting policies for Analysis and Reporting.
- Configured serverless applications leveraging Cloud Functions using Python to call GCP APIs and perform various management and remediation tasks.
- Configured, managed, maintained and troubleshooted containerized application deployment manifests for deployment to Kubernetes.
- Setup Automated CI/CD pipelines in Azure DevOps portal to compile and package code into Windows, Linux and MAC applications.
- Implemented automated solutions using GCP APIs to update packages on GCP VMs to ensure security compliance.
- Worked with Database tools (SQL) and Data Warehouse tools (Big Query) for data storage and analytics.
- Knowledge of Web development technologies (both front-end and back-end) for developing web applications.
- Familiar with Web API's (REST).
- Worked on application development using C# .NET and Python.

Technical Skills

DevOps	Terraform, Git, Kubernetes, Docker, Azure CI/CD
Cloud Platforms	GCP, Azure
Scripting Languages	Bash, PowerShell
Databases	MySQL Server, MySQL

Operating Systems	Linux (RHEL, Cent OS, Ubuntu) and Windows
Methodologies	Agile, Scrum
Programming Languages	Python, C++, C# .NET, JavaScript, Php, Laravel
Frameworks	Laravel (php)

Experience

10/2021 to Today

Cloud Developer (GCP) | DevOps Engineer MetaSol, Rawalpindi

- Setup **CI/CD Pipelines** for compiling **C# .NET** Web applications to generate artifacts and deploy them to the required Azure load balanced VMs for high availability.
- Converted legacy **Classic Editor** pipelines into **YAML Pipelines**. Documented and followed deployment strategies for application deployment and configured Release pipelines accordingly.
- Implemented a POC for applying **Patch Deployment Jobs** in order to update **GCP Virtual Machines** by utilizing **GCP VM Manager**. Configured **Cloud Functions** running **Python Code** which utilized **Cloud Asset Inventory API** and **OS Config API** to get an inventory of VMs in GCP and used this information to create Patch Deployment Jobs to update all the VMs in GCP. The retrieved data is stored in **Big Query** to create **Data Studio Views**.
- Set up automated logic in **Azure CI/CD pipeline** using **PowerShell** to extract the SHA256 digest from a docker image that gets pulled from the GCP Artifact Registry. Then used this to deploy the latest version of the image to GKE for **Security Compliance**.
- Configured and deployed applications, services and vended solutions to **GKE** as **Stateful Sets** and **Deployments**. Monitored deployments, investigated logs to troubleshoot and remediate issues.
- Configured deployment of containers with **YAML** and used **PowerShell scripts** with **Helm** in the build pipelines to package **YAML** configuration into **Helm Charts**. Set up and managed deployments of **Containerized Images** from **GCP Artifact Registry** to multiple different environments of **GKE - Kubernetes** (Non-Prod, Prod).
- Monitored deployments in **GCP, GKE** environments. Established successful deployment. Reported bugs and debugged issues/errors with existing deployments.
- Used **Terraform** to create resources in GCP. Familiarity with **IAC (Infrastructure as Code)** practices. Worked with **Terraform Providers** and **Modules** from **Terraform Enterprise** and **Terraform Registry** to create folders, projects, service accounts, artifact registry etc. in GCP.
- Worked with **Terraform** modules to deploy stand-alone **GCP artifact registry** project. Pushed images to GCP Artifact Registry for deployment into GCP and GKE.
- Packaged application code into **Docker** containers and set up image build pipelines to build and push packaged code into the **GCP Artifact Registry**.
- Set up **Log Based Metrics** and **Alerting Policies** based on **Data Access Audit Logs** to detect/prevent accidental deletion of critical GCP Resources. Assisted the setup of **dashboards** for **monitoring**.
- Used **HashiCorp Vault** to store and manage secrets.
- Used **Service Now** for **incident ticket management**. Also worked with Service Now

database (**CMDB**) to manage an inventory of resources in GCP and assisted in the setup an automated remediation process for assigning resources to the appropriate team for vulnerability management.

- Worked with **Git** repositories. Created and managed Git repositories for storing application code. **Created Pull Requests** to promote changes to Git repository branches. Participated in Code Reviews
- Worked with **Postman** to test and use **REST API endpoints** and **Apigee endpoints**.
- Produced and maintained **documentation** such as system requirements, processes, designs, resource inventories, plans and manuals.
- Set up **Azure CI/CD pipelines** to compile developed code for complex projects into an applications and stored packages to an FTP server. Worked on setting up automated pipelines for Windows, Linux and MAC applications. Coordinated with application developers to automate the process of compiling applications for new releases and participated in **Code Reviews**.
- Worked with **Terraform** modules to create **GCP artifact registries**.

Projects

Web Applications

- Developed front-end Web Applications using front-end technologies such as HTML, CSS, Java Script, Bootstrap/Tailwind.
- Developed backends for Web Applications using mainly Php and later moved to using Laravel.
- Worked with various international clients as a freelancer on Fiver to develop web applications based on their needs.
- Developed a dynamic Inventory Management System to manage stock of office supplies with Laravel. Also developed backend API endpoints.
- Developed a Job Posting web application to connect potential applicants to employers.

Desktop Applications

- Developed desktop applications while applying Advanced Object-Oriented Programming Concepts (C++ and Java)
- Created a dynamic grade and CGPA calculation system.
- Worked with commonly used data structures.
- Worked on creating management systems with SQL DB integration.

Education

Bachelor in Computer Science – 2022 (3.5 CGPA)

National University of Modern Languages, Islamabad

ICS – 2018 (80%)

F.G Sir Syed College, The Mall, Islamabad

Matriculation - 2016 (89%)

F.G Sir Syed School, Rawalpindi