Subham Sharma

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Professional Summary

Results-driven DevOps Engineer specializing in multi-cloud infrastructure (Azure, GCP) and microservices architecture. Expert in designing end-to-end CI/CD pipelines with Jenkins, container orchestration using Kubernetes and Azure Container Apps, and implementing security best practices. Proven ability to deploy and manage complex microservices ecosystems with secure service communication and database integration.

Experience

Mumbai, Maharashtra
May 2024 – Present Kraftnexus Tech LLP, **DevOps Engineer**

- **Microservices Architecture & Deployment**
  * Designed and deployed **20+ microservices** across **5 applications** using **Azure Container Apps**, implementing efficient service discovery and communication patterns
  * Configured and managed **self-hosted databases** with optimized connectivity to microservices, ensuring reliable data persistence and smooth application interaction
  * Established and maintained **inter-service communication protocols** for seamless data exchange between microservices
- **Infrastructure Security & Configuration**
  * Deployed and configured **self-hosted Jenkins on Azure VM**, implementing DNS mapping and **SSL certificate configuration** for enhanced security and accessibility
  * Set up and managed **Azure DNS Zones** with custom domain routing for APIs and microservices, improving service discoverability and endpoint management
- **Azure Container Apps & CI/CD Automation**
  * Orchestrated the end-to-end deployment of **20+ containerized applications** across development and production environments using **Azure Container Apps**
  * Designed and maintained standardized **Jenkins CI/CD pipelines** for each application, achieving full automation from code commit to deployment
  * Integrated CI/CD pipelines with **GitHub** to automatically trigger builds and implement **semantic versioning** based on Git tags
  * Automated **Docker image builds** and securely stored versioned images in **JFrog Artifactory** before deployment to Azure Container Apps
  * Enhanced platform security by provisioning and configuring **SSL/TLS certificates** for both Jenkins and JFrog Artifactory
- **GKE & Infrastructure Management**
  * Designed and implemented **Kubernetes manifests** for deploying Node.js applications on **GKE cluster**
  * Configured **LoadBalancer services** for high availability and efficient traffic management in GCP
  * Created **Dockerfiles** for Node.js and React applications to ensure consistent deployments
  * Stored container images in **Google Artifact Registry** for secure and streamlined deployment
- **Build & Deployment Automation**
  * Automated build, publish, and deployment process for .NET applications using **Jenkins**
  * Implemented semantic versioning and archived artifacts in **Sonatype Nexus** repository
  * Automated artifact retrieval, extraction, and deployment processes to improve software release efficiency

Projects

Deploying a Containerized Application on Google Kubernetes Engine (GKE) using Jenkins Pipeline Aug. 2023

- Implemented a **CI/CD** pipeline using **Jenkins** to automate the **deployment** of a containerized application on **Google Kubernetes Engine (GKE)**.
- Integrated **Jenkins** with **GitHub** for **source control**, **Docker** for **containerization**, and **Kubernetes** for **orchestration**.
- Automated build, test, and deployment stages by configuring a **Jenkins pipeline** to build **Docker images**, pushed them to **Google Artifact Registry (GAR)**, and deploy them to **GKE clusters.**
- Utilized Jenkins files to define the pipeline, enabling seamless updates to the application with each commit. Monitored application performance and scaling within GKE using Google Cloud Monitoring and Alerts.

AWS VPC with servers in private subnets and NAT. Dec. 2023

- **Designed** resilient **AWS VPC** across two Availability Zones, boosting system availability, **Implemented Auto Scaling** and **Load Balancer** for optimal traffic distribution.
- **Enhanced security** with **private subnets** for server deployment. Ensured **secure outbound internet** access via dual **NAT gateways**.
- Demonstrated **AWS networking** expertise for a scalable **production environment**.

Streamlined CI/CD Pipeline using Jenkins on Google Cloud Mar. 2024

- Established a streamlined **CI/CD pipeline** on Google Cloud for a Node.js application within a Compute Engine on GCP, **Integrated Docker, Jenkins**, and **Git** for code integration, testing, **deployment**, and **monitoring**.
- Ensured **robust security** by resolving firewall-related rules and securely exposing ports. Demonstrated the power of **CI/CD** in optimizing development and enhancing software development processes.

Education

B.Sc in Computer Science, *Nagindas khandwala college of science* June. 2020 to March 2024

- **Coursework:** Cloud computing, Database Management system, Data Science, Building blocks in Artificial Intelligence, Ethical Hacking, Cyber Forensics, Object Oriented Programming, Data and Network Security, Game Programming.

Higher Secondary School, *Mithibai college of science* June. 2018 to March 2020

Technologies

Cloud Platforms: Google Cloud Platform (GCP), Amazon Web Services (AWS), Microsoft Azure

Deployments: Kubernetes, Docker compose, Container apps (serverless)

Operating System: Windows, Ubuntu, MacOS

Database: MySQL, Azure SQL Database

Container Registry: Harbor, Jfrog artifactory, Azure container registry, Google artifact registry, Sonatype nexus

DevOps Tools: Docker, Jenkins, Github Actions, Terraform, Ansible.

Monitoring & Observability Prometheus, Grafana (Metrics & Alerting:)