Sumanth Bade

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Professional Summary:

A Result Oriented Accomplished DevOps Engineer with Hands on Knowledge on Azure, Linux and DevOps.

- ✓ Designing, implementing and supporting fully automated infrastructure provisioning and application deployments using **Azure Bicep**, **Kubernetes**, **GitHub**, **Jenkins**, **Maven**, and **Azure Container Registry (ACR)**.
- ✓ Designed, deployed, and maintained a centralized monitoring and logging stack using **Prometheus**, **Grafana**, and **Loki**, enabling real-time metrics visibility, log aggregation, and proactive alerting in different environments.
- ✓ Developed robust **Bash scripts** to **automate** end-to-end installation and systemd service configuration of observability tools like Elasticsearch, Grafana, Loki, and their agents, enabling consistent, repeatable, and production-ready deployments.
- ✓ Performed critical system maintenance tasks including **Jenkins** backup and restore, **Ubuntu OS upgrades**, and **disk swapping**, ensuring high availability and performance stability across environments.
- ✓ Hands-on working knowledge in identifying and resolving deployment and connectivity issues across services, ensuring minimal downtime and stable environments.
- ✓ Implemented **SSL/TLS** certificates in **Azure Kubernetes Service (AKS)** to enable secure communication between services by configuring **Ingress controllers** (e.g., NGINX) with HTTPS termination to enforce secure service access.
- ✓ Knowledge of cloud platforms including **Amazon Web Services (AWS)** and **Google Cloud Platform (GCP)**.
- ✓ Configured and managed secure access to Azure services by integrating **Private Endpoints** with **Azure Key Vault**, **Storage Accounts**, and **SQL Databases**, enforcing network isolation and enhancing compliance with enterprise-grade security policies.

Technical Skills:

Cloud Platform	**Azure**
Version Control	**GitHub, Bitbucket**
CI/CD & Configuration Management	**Jenkins**, **Azure DevOps**, **Ansible**, **Maven**
Infrastructure as Code	**Terraform**, **Azure Bicep**
Containers & Orchestration	**Docker**, **Kubernetes**
Artifact Management	**Azure Container Registry (ACR)**, **Docker Registry**
Monitoring & Logging	**Prometheus**, **Grafana**, **Loki**, **EFK (Elasticsearch, Fluentd, Kibana)**
Scripting & Automation	**Bash, Python**
DBMS	**MySQL**
Messaging & Streaming Platforms	**Apache Kafka (Installation & Configuration)**

Work Experience:

DevOps & Cloud Engineer | Adaequare Info Pvt Ltd, Hyd, TG | Feb-2024 | Present

Automated Azure Infrastructure & CI/CD Deployment Using Bicep and Jenkins

- ✓ Automated infrastructure provisioning in **Microsoft Azure** using **Bicep**, enabling consistent and repeatable deployments aligned with Infrastructure as Code (IaC) principles.
- ✓ Deployed containerized applications to **Azure Kubernetes Service (AKS)** using **Jenkins CI/CD** pipelines integrated with **GitHub**, **Maven**, and **Azure Container Registry (ACR)**.
- ✓ Configured **Redis cache** with password-based authentication and access controls to enable secure, high-performance caching across multiple environments.
- ✓ Automated deployment of a multi-broker **Apache Kafka** cluster in KRaft mode, achieving high availability and removing dependency on **ZooKeeper**.
- ✓ Implemented **private endpoints** to restrict communication within the **Azure Virtual Network**, and leveraged **Managed Identities** and **RBAC** for secure, role-based access control between resources.
- ✓ Integrated **SonarQube** into CI/CD pipelines for continuous code quality analysis and used **Azure Blob Storage** for storing artifacts and logs.

Automated GCP Infrastructure Provisioning and Configuration using Terraform, Ansible, and Jenkins:

- ✓ Designed and provisioned **GCP infrastructure** using **Terraform** for multiple environments (dev, test, prod).
- ✓ Automated creation of **VPCs, subnets**, and **VMs**, including a Jenkins host for CI/CD workflows.
- ✓ Implemented **Ansible playbooks** to dynamically fetch GCP VM inventory using **host tags** for automated software deployment.
- ✓ Developed a custom **Dockerfile** to build a **Jenkins agent** with Terraform, Ansible, and cloud SDK tools pre-installed.
- ✓ Integrated Jenkins with Terraform and Ansible to enable **end-to-end infrastructure provisioning and configuration management.**

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Contributions:

- ✓ [GitHub](#)
- ✓ [Monitoring Stack](#)
- ✓ [GCP-Project](#)

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Education:

Bachelor of Technology (B.Tech) – Raghu Engineering College, Visakhapatnam, Andhra Pradesh.