**Asha Buduru**

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### **AZURE CLOUD & DEVOPS ENGINEER**

Experienced Cloud and DevOps Engineer with over 4 years in designing, implementing, and maintaining scalable and reliable solutions on Azure. Highly skilled in managing cloud environments, driving automation, and enabling continuous integration and deployment (CI/CD). A proactive professional focused on building secure, cost-effective, and high-performing systems through Infrastructure as Code (IaC) and advanced monitoring techniques.

### **PROFESSIONAL OVERVIEW**

* **Azure Expertise:** In-depth knowledge of Azure services, specializing in scalable deployments and optimized cost management using tools like Azure Virtual Machines, Azure SQL Database, Blob Storage, and Azure Active Directory.
* **Automation & IaC:** Skilled in Infrastructure as Code using Terraform and Azure Resource Manager (ARM) templates, ensuring consistent, repeatable, and manageable deployments across environments.
* **Continuous Delivery (CI/CD):** Designed, implemented, and managed CI/CD pipelines using Azure DevOps, GitHub Actions, and Jenkins, accelerating software releases and enhancing deployment reliability.
* **Monitoring & Optimization:** Leveraged Azure Monitor, Application Insights, and Log Analytics for robust monitoring, alerting, and performance tuning to ensure service availability and rapid issue detection.

### **TECHNICAL EXPERTISE**

* **Cloud Services:** Azure (Azure VMs, Azure SQL, Azure Functions, Azure App Services, Blob Storage, Azure Kubernetes Service)
* **CI/CD Tools:** Azure Pipelines, Jenkins, Azure Devops
* **Scripting & Programming:** PowerShell, Python, Bash
* **IaC & Configuration Management:** ARM Templates, Terraform, Ansible
* **Containerization:** Docker, Kubernetes, AKS
* **Monitoring & Security:** Azure Monitor, Prometheus, Grafana, Azure Active Directory, Azure Security Center

### **PROFESSIONAL EXPERIENCE**

**Azure CloudOps Engineer**

*DataMatics*  | *March 2022 – May 2023*

* **Automated Infrastructure Management:** Spearheaded the implementation of ARM templates and terraform to automate the provisioning and management of Azure resources, ensuring efficient deployment across development, testing, and production environments.
* **Disaster Recovery Implementation:** Developed a comprehensive disaster recovery solution using Azure Site Recovery, facilitating high availability and failover for mission-critical applications.
* **Cost Optimization:** Analyzed and managed resource utilization through Azure Cost Management, implementing cost-saving measures like resource right-sizing and scheduling, reducing the overall cloud spend by approximately 30%.
* **Security & Compliance Automation:** Established security protocols and governance using Azure Policy and Azure Blueprints to enforce compliance, monitor for misconfigurations, and protect data integrity across multiple projects.
* **Performance Optimization:** Configured and optimized Azure Monitor and Application Insights for end-to-end system monitoring, building real-time dashboards to track performance, troubleshoot issues, and maintain service level objectives (SLOs).
* **Data Protection Measures:** Implemented lifecycle policies for Blob Storage, automating data archiving and encryption, while also reducing storage costs and ensuring compliance with data protection standards.
* **Multi-Environment Automation:** Built scalable and modular infrastructure templates in ARM and Terraform, enabling quick environment setups for development, testing, and production in line with DevOps best practices.
* **Kubernetes Management:** Deployed and maintained Azure Kubernetes Service (AKS) clusters to support containerized applications, ensuring scalability, high availability, and simplified application rollouts.
* **Observability Framework:** Configured custom monitoring dashboards with Azure Monitor, Log Analytics, and Grafana, providing detailed insights into system health, resource utilization, and real-time error tracking.
* **Incident Response Automation:** Designed alerting workflows within Azure Monitor for automated incident management, reducing incident response times by implementing self-healing actions and escalations.
* **Resource Lifecycle Management:** Developed automated scripts for managing resource lifecycles, including VM auto-scaling, storage lifecycle policies, and network configurations to support performance and cost-efficiency objectives.

**DevOps Engineer**

*Deloitte* | *Dec 2020 – March 2022*

* **End-to-End CI/CD Pipeline Design:** Architected automated CI/CD pipelines using Azure DevOps, integrating testing and deployment workflows, and minimizing manual interventions, which improved deployment speed and reliability.
* **Hybrid Cloud Orchestration:** Developed containerized applications and orchestrated deployments on AKS, facilitating a hybrid cloud approach for multi-cloud operability, including seamless integrations across Azure and other environments.
* **Application Security Practices:** Established role-based access controls (RBAC) with Azure Active Directory (AAD) and implemented multi-factor authentication (MFA) policies, enhancing access security and safeguarding critical resources.
* **Configuration Management:** Utilized Ansible and PowerShell scripts for automated configuration management, standardizing deployment procedures, and maintaining consistent environment configurations across multiple teams.

### **EDUCATION**

Bachelor of Technology in CSE from NBKR, Nellore