Akash Pawar

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Summary

AWS Certified Solutions Architect, Certified Kubernetes Administrator (CKA), and DevOps Engineer with over 2 years of experience in AWS, Azure, and Kubernetes. Skilled in microservices architecture, CI/CD optimization, cost optimization, Terraform, and Python, with a hands-on approach to learning and problem-solving.

Experience

DevOps Engineer   **Dec 2022 – Current**
Trames Private Limited   *India, Remote*

- Led two major **cloud migration** projects, successfully migrating workloads from AWS to Azure, optimizing performance, and reducing infrastructure complexity.
- Implemented **cost optimization strategies**, including **AWS Spot Instances, autoscaling, reserved instances, right-sizing, and deletion of unused or idle resources**, reducing cloud expenses by **35% ($5,500/month)** without impacting scalability or reliability.
- Worked with Kubernetes **(EKS, AKS)** to create clusters, deploy applications, and perform EKS Kubernetes version upgrades.
- Migrated production databases from **AWS** to **Azure PostgreSQL Flexible Servers** as part of a cloud migration project, and managed the database infrastructure to ensure high availability and data integrity.
- Implemented **security best practices**, enforcing **IAM policies, RBAC** to enhance cloud and Kubernetes security.
- Utilized Terraform and AWS CDK to automate and manage cloud infrastructure, ensuring consistency and scalability.
- Worked with **GitHub Actions, AWS CodePipeline, and Azure DevOps** to automate deployments and improve delivery efficiency.
- Set up **NGINX as a reverse proxy**, optimizing traffic routing and enhancing application performance.
- Used **AWS CloudWatch** for managing logs, metrics, and alarms, and later transitioned to **Logz.io** for more advanced log analysis, enhancing troubleshooting efficiency .
- Worked with popular AWS services such as **EC2**, **DynamoDB**, **ECS**, **IAM**, **S3**, and **Lambda**, and Azure services like **App Service**, **Blob Storage**,**Azure VM**,**Azure Vnet** enhancing cloud infrastructure and application deployment.
- Created **self-hosted GitHub Actions runners** for deployment to private VMs in Azure, enhancing deployment automation and efficiency.
- Configured **VNet Peering** to access cross-VNet resources and set up a **VPN** for secure access to the company's private resources, adding an additional layer of security.
- Designed **AWS-Azure networking** using **VPC/VNet Peering, Security Groups, NACLs, and VPNs**, improving cross-cloud connectivity.
- Configured **AWS GuardDuty and Security Hub** for proactive threat detection and security monitoring.
- Knowladge of **Distributed system** .

Hands-On Learning

- **Skills:** Prometheus, Grafana, OpenSearch, ArgoCD, Google Cloud (Ongoing self-learning)
- Self-learned **GitOps with ArgoCD**, automating Helm-based deployments and reducing downtime.
- Implemented an **observability stack** using **Prometheus, Grafana, OpenSearch**, improving monitoring and log analysis.
- Learning **Locust** for application load testing to evaluate infrastructure resource utilization and performance under varying traffic conditions.

Skills and Expertise

- **Cloud Platforms:** AWS, Azure, Kubernetes (EKS, AKS), Docker, Helm, OpenVPN, VPC/VNet, Security Groups, NACLs

- **Infrastructure as Code:** Terraform, AWS CDK

- **CI/CD GitOps:** GitHub Actions, AWS CodePipeline, Azure DevOps, ArgoCD, Azure Pipeline

- **Programming Scripting:** Python, Node.js, Express, React.js/Next.js, JavaScript/TypeScript

- **Monitoring Observability:** CloudWatch, Logzio, Prometheus, Grafana, OpenSearch

- **Databases Messaging:** PostgreSQL, MongoDB, Redis

- **Networking Security:** VPN, Load Balancers (ALB, NLB), IAM Policies

Certifications

- Certified Kubernetes Administrator (Verification Link: [click here](#))

- AWS Solutions Architect (Verification Link: [click here](#))

- AWS Certified Developer (Verification Link: [click here](#))

Education

MITAOE   **2019 − 2023**

B.Tech in ENTC with specialization in cloud computing   *Pune, India*