Akash Pawar

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Summary

AWS Certified Solutions Architect, Certified Kubernetes Administrator (CKA), and experienced DevOps Engineer with over 2 years of expertise in cloud platforms, including AWS, Azure, and Kubernetes. Skilled in designing and implementing Kubernetes-based microservices architectures, optimizing deployment pipelines, and achieving 99.9% system uptime. Proficient in Python scripting for automation, infrastructure as code (IaC) with Terraform, and container orchestration with Kubernetes. Adept at implementing GitOps practices using tools like Argo CD to enhance deployment reliability, automate workflows, and reduce operational costs. Strong problem-solving, analytical, and scripting skills, with a proven track record of delivering scalable, secure, and cost-optimized solutions, while leading projects that improve performance and efficiency.

Education

MITAOE **2019 – 2023**

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

Certifications

- Certified Kubernetes Administrator (Verification Link: click here)
- AWS Solutions Architect (Verification Link: click here)
- AWS Certified Developer (Verification Link: click here)

Skills and Expertise

- **Cloud & DevOps:** AWS (EC2, EKS, Lambda, S3), Azure (AKS, Functions), Kubernetes(EKS, AKS), Docker, Helm, NGINX, OpenVPN
- **Infrastructure as Code:** Terraform, AWS CloudFormation
- **CI/CD & GitOps:** ArgoCD, GitHub Actions CI/CD, AWS CodePipeline, AZURE Pipeline, Azure DevOps
- **Networking & Security:** VPC, Security Groups, NACLs, Load Balancers (ALB, NLB), IAM Policies, VPN, Azure VPC, Azure API Management
- **Programming & Automation:** Python, Go(beginner), Bash, JavaScript, typescript
- **Monitoring & Observability:** CloudWatch, Logzio, Fluentd, BetterStack, Prometheus, Grafana, OpenSearch(learning)
- **Databases & Messaging:** PostgreSQL, MongoDB, Redis, Kafka (beginner)

Experience

DevOps Engineer **Dec 2022 – Current**

Trames Private Limited *India, Remote*

- Led two major cloud migration and cost optimization projects, re-architecting infrastructure to improve scalability and efficiency, reducing cloud costs by 35% ($5,500/month) through autoscaling, reserved instances, and resource right-sizing strategies.
- Managed multiple Kubernetes clusters (EKS, AKS), performing version upgrades, security patching, and scaling optimizations for high-availability applications.
- Architected and maintained cloud infrastructure on AWS & Azure, achieving 99.9% uptime for critical applications.
- Architected and optimized AWS network infrastructure, Security Groups, NACLs, and Load Balancers, enhancing application security and performance.
- Spearheaded containerization for microservices-based applications using Docker & Kubernetes, optimizing deployment efficiency and resource utilization.
- Utilized AWS Spot Instances for fault-tolerant application (worker/jobs), reducing compute costs by 66% while ensuring high availability and scalability.

- Designed and automated CI/CD pipelines using GitHub Actions, AWS CodePipeline, Azure DevOps and Azure Pipeline CI/CD, reducing deployment time by 60%.
- Implemented GitOps workflows with ArgoCD, ensuring automated, reliable, and version-controlled deployments.
- Developed internal automation tools using Python, streamlining operational workflows and improving efficiency by 30%.
- Implemented security best practices with Vanta & ISO compliance, reducing vulnerability exposure by 20%.
- Worked with AWS SES to set up and configure email services, integrating it with other cloud resources for seamless operations.
- Worked with AWS CloudFront to configure CDN and enhance content delivery performance across multiple regions.
- Set up and managed NGINX as a reverse proxy server to optimize load balancing, traffic routing, and security for web applications.
- Collaborated with the team to manage and optimize AWS Beanstalk environments, automating deployment processes for high-availability applications.
- Created and managed database infrastructure on Azure using PostgreSQL Flexible Servers, and successfully migrated data from AWS to Azure.
- Designed and deployed infrastructure on Azure, including Virtual Machines, Web Apps, AKS (Azure Kubernetes Service), and API Management services, ensuring scalability and security.
- Implemented and managed Azure Pipelines and Azure DevOps for streamlined CI/CD workflows, improving deployment efficiency and reducing time to production.
- Set up and configured Azure Application Gateway to optimize application traffic management, ensuring high availability and security.
- Integrated applications with Azure VNets, enhancing security via resource isolation and traffic control.