Akhil Sai Latchireddi

Lead DevOps Engineer (Enterprise DevOps & Cloud Engineering)

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Summary

Experienced Lead DevOps Engineer with 7+ years of robust background in managing and deploying applications across multiple cloud platforms including AWS, GCP, Azure, and OCI. Proficient in wide range of DevOps tools for CI/CD(Jenkins), monitoring, security, and cost optimisation. Proven ability to design and implement complex architectures, automate deployment workflows, and support development teams in achieving efficient and secure deployments. Holding multiple Professional Certifications in Cloud & DevOps, and utilising Agile methodologies to drive successful project outcomes. Seeking opportunities to leverage my skills in a dynamic and challenging environment.

Technical Skills

- **Cloud Platforms:** AWS, Azure, GCP, OCI.
- **CI/CD Tools:** Jenkins, GitLab CI, AWS Code Pipeline, Bitrise, Jfrog.
- **Containers & Orchestration:** Docker, Kubernetes, ECS, EKS, GKE.
- **Configuration Management & Iac:** HashiCorp Terraform, CloudFormation, Helm, Boto3, Packer, AWS CDK.
- **Collaboration & Documentation:** Atlassian Jira, Confluence, ServiceNow.
- **Programming Languages/ Scripting:** Python, NodeJS, Shell, Bash, Groovy.
- **Security & Code Quality:** AquaSec, Checkmarx, HashiCorp Vault, KMS, WAF.
- **Monitoring & Logging:** New Relic, Logz.io, Cribl, CloudWatch, Log Analytics.
- **Source Code Management:** GitLab, Bitbucket, GitHub, AWS Code Commit.
- **Cloud/AWS Services:** S3, EC2, VPC, ELB, RDS, SNS, SQS, SES, Athena, Lambda, Functions, Cloud Run Functions, Single Sign On, API Gateway, CLI, GKE Clusters, Dynamo DB.
- **Other Tools:** Kong, Cloud Custodian, Quick Sight.

Certifications

- Certified Kubernetes Administrator-CKA (LF-6569zxuel0)
- AWS Certified DevOps Engineer Professional (RZL1F7JJ2F1QQ192)
- HashiCorp Certified: Terraform Associate
- Google Cloud Professional Cloud Architect
- Build Infrastructure with Terraform on Google Cloud
- Optimize Costs for Google Kubernetes Engine

Experience

Lead DevOps Engineer | 7-Eleven | 2022 – Present

- Managed Jenkins builds and deployments for Java, Node.js, Python, .NET, Go, Angular, Maven, Gradle, Helm, Terraform modules, Docker, Packer, and MS Build across Android, iOS, AKS, GKE and serverless platforms, with publishing to Docker Hub, ECR, ACR, and Jfrog on AWS, GCP, Azure, and OCI using CloudFormation, SAM, and Terraform.
- Integrated AquaSec, Checkmarx, Jfrog OSS, HashiCorp Vault, SonarQube with Jenkins to enhance security & perform vulnerability scans.
- Built and upgraded Docker base images for Alpine, Java, Node.js, Python, and optimised images by using JDK headless.

- Implemented Cloud Custodian for compliance checks, Setup Cribl for processing logs to Logz.io, leveraging Logz.io for creating insightful dashboards and proactive alerting for application teams.
- Designed architecture for Kong Aurora Global DB for failover scenarios, and conducted major version upgrades for Kong from 2.x to 3.x.
- Developed Service Control Policies (SCPs) to enforce organization-wide AWS governance on services such as Reserved Instances and Marketplace products. Designed and implemented CUDOS dashboards in AWS Quicksight, providing leadership with actionable insights for cost optimization.
- Designed and implemented VPC network and set up cross-cloud network designs with TGWs, BGWs, and Palo Alto firewalls, and collaborated with the InfoSec team to integrate the cycognito tool for external attack surface management on AWS and GCP.
- Upgraded Kubernetes clusters from v1.23 to v1.25 due to end of support, addressing breaking changes, deprecated APIs, Helm charts to ensure a seamless transition with minimal downtime.
- Collaborated with development teams to troubleshoot and resolve issues related to the Jenkins platform and DevOps tools.

Senior Platform Engineer | Quantiphi | 2021-2022

- Implemented CI/CD pipelines using GitLab and Code Deploy and strengthened security with WAF and Guard Duty.
- Integrated Sumo Logic with AWS for effective monitoring and alerting for ECS and Glue applications, utilized Amazon Macie to discover sensitive data with custom identifiers.
- developed scripts for notifying long-running Glue jobs and designed an auto-tagging solution for AWS resources.
- Set up disaster recovery using cloud-native features and deployed micro-services in ECS, along with serverless applications in AWS Lambda, Glue, Step Functions, and Aurora Serverless Global Databases.

Senior Cloud Developer | Tata Consultancy Services – TCS | 2021 - 2022

- Responsible for on-cloud migration of 67 AWS accounts and for setup of AWS Organizations, Control Tower, SSO.
- Strengthened Security across the org by enforcing custom SCP's, implemented tagging and provisioned Service Catalog products for VPC etc. using CloudFormation.
- Implemented Iac using terraform modules for deploying to multiple clouds like AWS, GCP and maintained version control for modules using bitbucket, upgraded to v1.0.3 from v0.11
- Automatically upgrading the ASG of ECS and EKS clusters using SSM and lambda.

Cloud Developer | Wipro Technologies | 2018 - 2021

- Applied Agile methodologies (Scrum) in Azure DevOps to drive efficient cloud migration.
- Collaborated with architects to develop Cloud strategies, leveraging the Well-Architected Framework and designing migration approaches and Re-architecting.
- Analyzing the complex applications using 6R's migration strategy.
- Migrating monolithic architectures to service-oriented or serverless architecture to boost agility or improve business continuity.
- Cost optimization, Capacity planning and Right sizing, security and performance improvements using Trusted Advisor. Deployed the Infra by using Cloud Formation (Iac).

Education

Bachelor of Technology | Vizianagaram, India
Jawaharlal Nehru Technological University
2014-2018