



Akash Kumar

Cloud Infrastructure Engineer | DevOps Engineer |
Platform Engineer | SRE | Kubernetes | CI/CD

Profile Synopsis

Cloud Infrastructure Engineer with 3 years of experience in automating and optimizing cloud environments using **Terraform**, **AWS CloudFormation**, **Ansible**, and **Puppet**. Experienced in designing and managing **CI/CD pipelines** with **Jenkins**, **GitLab CI**, and **Azure DevOps**, and working with **Kubernetes** and **Docker** for scalable, high-availability applications. Proficient in **monitoring and logging** with **Prometheus**, **Datadog**, and **Kibana**, and applying **Site Reliability Engineering (SRE)** practices to ensure system performance and reliability. Skilled in building event-driven architectures with **Kafka** and **AWS MSK**, with a strong focus on security, compliance, and cross-functional collaboration.

Professional Experience

Tata Consultancy Services

DevOps Consultant | *Aug 2021 – Present*

Roles and Responsibilities:

- **Infrastructure Automation:** Automated cloud infrastructure provisioning and configuration using **Terraform**, **AWS CloudFormation**, **Ansible**, and **Puppet**, ensuring scalability and consistency across environments.
- **CI/CD Pipelines:** Designed and managed **CI/CD pipelines** with **Jenkins**, **GitLab CI**, and **Azure DevOps**, enabling seamless deployment and integration across applications.
- **Containerization & Orchestration:** Managed **Kubernetes** clusters and **Docker** containers for scalable, high-availability applications in cloud environments (**AWS**, **GCP**).
- **Monitoring & Performance:** Implemented monitoring, logging, and alerting with **Prometheus**, **Datadog**, and **Kibana**, optimizing system performance and troubleshooting issues.
- **Site Reliability Engineering (SRE):** Applied **SRE** practices to ensure system reliability, incident response, and proactive performance optimization.
- **Kafka & Event-Driven Systems:** Configured **Kafka** and **AWS MSK** for scalable event-driven architectures and real-time data processing.
- **Security & Compliance:** Ensured infrastructure security and compliance by applying best practices in access control, encryption, and vulnerability scanning.
- **Collaboration:** Worked cross-functionally with teams to enhance operational workflows, improve system reliability, and drive automation initiatives.



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Key Skills

DevOps & Cloud Technologies:

- **DevOps Tools:** Jenkins, GitLab CI
- **Configuration Management:** Ansible, Chef, Puppet
- **Containerization:** Docker, Kubernetes, OpenShift
- **Cloud Platforms:** AWS, Microsoft Azure, Google Cloud Platform (GCP)
- **Infrastructure as Code (IAC):** Terraform, AWS CloudFormation
- **Version Control:** Git, GitHub, Bitbucket
- **Monitoring & Logging:** Prometheus, Grafana, ELK Stack (Elasticsearch, Logstash, Kibana)
- **CI/CD Pipelines:** Automation, Integration, and Deployment
- **Cloud Security:** AWS IAM, Azure Security Center, Cloud-native Security

Soft Skills

- Time Management, Task Prioritization
- Strong Communication and Collaboration
- Problem Solving and Critical Thinking
- Adaptability and Continuous Learning

Languages

- English (Fluent)
- Hindi (Fluent)

Key Achievements

- Automated cloud infrastructure with **Terraform** and **Ansible**, cutting deployment times by 40%.
- Optimized **CI/CD pipelines** with **Jenkins** and **GitLab CI**, boosting deployment frequency and reducing errors.
- Migrated legacy apps to **Kubernetes**, improving scalability and availability.
- Implemented **monitoring** with **Prometheus** and **Datadog**, reducing downtime by 25%.
- Built **Kafka**-based event-driven architecture, improving data pipeline performance.
- Strengthened infrastructure security with best practices for access control and encryption.

Certifications & Training

- **AWS Certified Solutions Architect – Associate**
- **Azure DevOps Fundamentals** (Udemy)
- **Introduction to Site Reliability Engineering (SRE)** (Coursera)

Education

- **Graduation** | 2021