AYUSH TIWARI

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Pune

PROFESSIONAL SUMMARY

With 8 years of experience in DevOps and Platform Engineering, I am passionate about designing and implementing efficient, scalable, and secure cloud native solutions. I specialize in creating seamless CI/CD pipelines, optimizing microservice architectures, and enhancing Kubernetes orchestration. My work includes developing scalable microservices, integrating security practices, and automating infrastructure deployment. I thrive on modernizing legacy systems, ensuring zero downtime through innovative deployment strategies, and building observability platforms. Strong focus on adopting cost-saving measures, optimizing application performance, and continuously improving cloud infrastructure to support dynamic and robust environments.

SKILLS

Kubernetes	Helm	Terraform
Docker	AWS	Azure
ArgoCD	Microservices	CI/CD
EKS	AKS	ECS
IAM	Python	Bash

EXPERIENCE

Specialist DevOps Engineer
NICE, Pune, Jan 2025 - Current

- Reduced cloud costs by optimizing resource utilization and automation to shut down resources during specific window
- Improved terraform modules to make them more modular and DRY

Cloud Engineering Lead
ZS Associates, Pune, Oct 2021 - Jan 2025

- Managed infrastructure platforms for SaaS solutions spread across 25+ AWS accounts, 100+ EKS clusters, 600+ ECS clusters, and 1500+ EC2 and Fargate nodes
- Designed robust operational CI/CD pipelines for infrastructure creation, infrastructure patching, and upgrades on AWS with Terraform
- Designed observability and alerting platform for EKS clusters, utilising Amazon Managed Prometheus and Amazon Managed Grafana as well as with Datadog
- Designed Internal Developer Platform using Kubernetes (EKS) and Terraform (Terraform Cloud) for Python and Node applications, simplifying the development process while adhering to security and scalability standards
- Implemented an in-house solution for maximizing GPU utilization through the use of HPA, leveraging DCGM exporter, and Prometheus Adapter
- Developed Terraform modules for AWS resource provisioning with adherence to standard naming and configuration best practices

Senior DevOps Engineer

Codal Inc, Ahmedabad, Dec 2020 - Oct 2021

- Designed CI/CD for various applications including Python Django, Node, Angular, WordPress, and PHP sites utilizing AWS CodePipelines, GitHub Actions, and Jenkins
- Managed orchestration of micro-service architectures using Docker Compose and Kubernetes
- Enhanced Docker and Kubernetes clusters for adherence to security best practices while managing them on AWS ECS, AWS EKS
- Designed automated infrastructure deployment through the design of CloudFormation and Terraform templates
- Designed CI/CD solution for Serverless applications utilizing SAM templates with API Gateway and Lambda
- Reduced latency between services, end-users and optimized billing costs for AWS and GCP

Programmer Analyst

Cognizant, Chennai, Jul 2016 - Nov 2019

- Implemented cloud services in client's MES domain for upgrading legacy physical and VM server architecture
- Implemented Blue-Green deployment strategy to avoid application downtime during updates on critical workflows
- Created visualization for web server access data over Kibana and established a data pipeline with ELK stack
- Prepared log streams in CloudWatch for backend services and performed Linux Administration for EC2 fleet

EDUCATION

B.Tech

SRM University, Chennai, Tamil Nadu, May 2016

WEBSITE

https://dbcelm.github.io, https://github.com/dbcelm

CERTIFICATIONS

- CKAD - Certified Kubernetes Application Developer
- AWS Solutions Architect - Associate
- AWS Cloud Practitioner
- Docker certified associate