Ayush Tiwari

DevOps Engineer / Cloud Solutions Architect / Kubernetes

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Professional Experience

ZS Associates, Pune — *Senior Cloud Solutions Engineer*

October 2021 - Present

- Orchestrating Python and Node applications on ECS and EKS, making Kubernetes manifests, Dockerfiles, and designing CI-CD for ECS and EKS.

- Writing Terraform modules to automate resource provisioning and orchestrating monitoring and APM for EKS and ECS workloads on NewRelic and Datadog.

Codal Inc., Ahmedabad — *DevOps Engineer*

February 2020 - October 2021

- Designing CI/CD for multi-tenant python django applications, node applications, static angular sites, wordpress and php based sites using AWS CodePipelines, GitHub Actions and Jenkins.

- Orchestrating micro-service based architectures over Docker Compose and Kubernetes.

- Actively optimizing Docker and Kubernetes clusters to adopt security best practices and managing them on AWS ECS, AWS EKS, ensuring scalability, robust availability and continuous deployments.

- Designing CloudFormation and Terraform templates to automate infrastructure deployment.

- Orchestrating Serverless applications over API Gateway and Lambda with SAM templates.

- Defining reverse proxy configurations in NGINX and Apache

- Reducing latency between services, latency for end-users and to optimize billing costs over AWS and GCP.

- Setting up alerts on Slack and email for deployment success / failure, application availability, service availability, code best practice issues, branch merge to name a few.

- Designing architectures, managing and integrating every AWS service.

Cognizant, Chennai — *Programmer Analyst / Team Lead*

July 2016 - November 2019

- Introducing and adopting cloud services in client's MES domain which was long due for upgrade and was running predominantly on legacy physical and VM server architecture.

- Migrating on-premise Citrix hosted applications to AWS EC2 server fleet and making them scalable.

- Implementing Blue-Green deployment strategy across critical workflows to ensure no application / service downtime while updates are pushed.

- Preparing log streams in Cloudwatch for backend services and applying metric filters to catch errors and trigger alarms.

- Visualize web server access data over Kibana and setting up a data pipeline using ELK stack.

Skills

- **AWS**:

CodePipeline / CodeBuild / CodeDeploy

ECS / EKS / EC2 / LightSail / BeanStalk

IAM / S3 / CloudWatch / CloudTrail

RDS (MySQL and PostgreSQL)

CloudFront / Route53 / VPC

CloudFormation

SES / SNS / Elasticache (Redis)

API Gateway / Lambda / SAM

Secret Manager / Cognito

- **Cloud Platforms**: *AWS / GCP*

- **Containers**: *Docker / Kubernetes*

- **CI / CD**: *AWS CodePipeline / GitHub Actions / Jenkins*

- **Scripting**: *Bash / YAML / JSON*

- **Operating Systems:** *Amazon Linux / Ubuntu / CentOS*

Certifications & Awards

AWS System Solutions Architect – Associate
Issued: April'18

AWS Cloud Practitioner
Issued: November'17

Docker Certified Associate
Issued: February'19

Education

SRM University – B.Tech.
CGPA: 8.96 / *Batch 2012-16*

HSC – 9.6 GPA
2010

SSC – 84.6%
2012