

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 Splunk 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