Harshit Kaushik

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Location: Noida

An aspiring DevOps Engineer who is looking for opportunities in DevOps and Cloud

TECHNICAL SKILLS

Cloud Technologies	AWS
Build Tools	Maven, AWS CodeBuild
Container Technologies	Docker, Kubernetes
Scripting	Shell and Python
Version Control System	Git, GitHub
Configuration Management	Ansible
Infrastructure as Code	Terraform, AWS CloudFormation
CI/CD	Jenkins, AWS Pipeline

PROJECTS SUMMARY

IMPLEMENTED END-TO-END KUBERNETES PROJECT - AWS

Implemented AWS EKS on Fargate to deploy and manage a containerized application. Configured Kubernetes resources for application functionality and integrated AWS OIDC with IAM for secure ALB controller operations. Assigned IAM roles to service accounts and installed the ALB Controller using Helm to enable external access through an ALB.

AWS Components involved:

AWS EKS, Fargate, ALB Controller, IAM, Helm, Kubernetes

CLOUD INFRASTRUCTURE AUTOMATION - TERRAFORM

Designed and implemented an automated infrastructure setup on AWS using Terraform. The project involved creating a scalable and secure cloud environment, including defining providers and variables, configuring VPC, subnets, internet gateway, route table, Application Load Balancer (ALB), target groups, and listeners. Ensured a streamlined and repeatable deployment process for cloud resources.

Tools used:

Terraform, AWS VPC, AWS ELB, Subnets, internet Gateway

CLOUD COST OPTIMIZATION - AWS

Used the combination of AWS CloudWatch and Lambda Function to decrease the cloud cost by 25 percent. Created Lambda function in AWS, used the python boto3 module to interact with AWS service APIs and this lambda function is triggered by Cloud Watch events. This lambda function would watch for any unused EBS snapshot and either delete them or send out the notification to the snapshot owner.

AWS Components involved:

AWS Cloud Watch, Lambda, SNS

AWS RESOURCE MANAGEMENT AUTOMATION - SHELL SCRIPTING

Developed a shell script to automate the retrieval and display of AWS account resources, including IAM users, EC2 instances, S3 buckets, and other services. Leveraged AWS CLI commands to query and compile detailed resource information in a structured format, enhancing operational efficiency and visibility into cloud resources.

Tools used:

AWS CLI, IAM, EC2, S3, Bash

EDUCATION

Bachelor of Technology (Computer Science and Engineering)(2019-2023) - 8.4 CGPA

 IIMT College of Engineering, Greater Noida(UP)

Class 12th(2019) - 78 %

 Vidhya Mandir, Sambhal(UP)

Class 10th(2017) - 83 %

 Vidhya Mandir, Sambhal(UP)

AWARDS

Meritorious Student Award (2022)

-IIMT College of Engineering, Greater Noida

Participated in Smart India Hackathon(2022)

-Organized by AICTE and MIC

LANGUAGES

English and Hindi