Srikantha S V

AWS & DevOps Enthusiast

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PROFESSIONAL SUMMARY

Aspiring AWS DevOps Engineer, combining theoretical expertise with practical project implementation. Eager to contribute innovative solutions for seamless cloud infrastructure and automation, leveraging both hands-on experience and a passion for modern IT practices.

TECHNICAL SKILL

Cloud Technologies	:	AWS (VPC, EC2, S3, IAM, Cloud watch, Lambda etc.)
Operating systems	:	Linux, Ubuntu, Windows
Version Control Tools	:	GitHub
CI/CD Tools	:	Jenkins
Container & Orchestration Tool	:	Docker, Docker Swarm, Kubernetes
Infrastructure as Code Tool	:	Terraform
Monitoring & Alerting Tools	:	Prometheus and Grafana
Scripting Languages	:	Bash shell

INTERNSHIP

AWS and DevOps Intern

Micro Degree Edu Ind Pvt ltd. - Till Date

Responsibilities:

- Worked on **AWS** services, gaining hands-on experience in cloud infrastructure setup and management.
- Managed version control with **Git** for efficient collaboration and project tracking.
- Developed, built, and deployed containerized applications using **Docker**.
- Implemented continuous integration and delivery pipelines using **Jenkins**, ensuring smooth and automated deployment processes.
- Gained exposure to **Kubernetes** for managing containerized applications in production environments.
- Utilized **monitoring tools** to track performance metrics and system health.
- Applied **Terraform** for infrastructure automation, learning best practices in infrastructure as code.

PROJECTS

AWS Cloud Cost Optimization – Identifying Stale EBS Snapshots

Description: Implemented a server less solution using AWS Lambda to identify and delete stale EBS snapshots, effectively reducing storage costs and optimizing resource usage.

Tools Used: AWS Lambda, Python, Boto3, Cloud Watch Events, SNS.

Responsibilities:

- Developed an AWS Lambda function in Python using the Boto3 SDK to scan all EBS snapshots owned by the account.
- Retrieved a list of all active EC2 instances (running and stopped) using the Boto3 library.
- For each EBS snapshot checked if the associated volume was attached to any active EC2 instance.
- Implemented conditional checks to identify snapshots that were no longer associated with any active instances
- Configured Cloud Watch Events to trigger the Lambda function on a scheduled basis to ensure regular cleanup.
- Automated the deletion of identified stale snapshots to free up storage and reduce costs.

Infrastructure Automation with Terraform

Description: Implemented a simple AWS infrastructure using Terraform, setting up essential network components and deploying a web server.

Tools Used: AWS (EC2, VPC, Internet Gateway, Subnets, Route Tables), Terraform.

Responsibilities:

- Define and create a Virtual Private Cloud (VPC) with a CIDR block.
- Create and manage subnets within the VPC.
- Set up an internet gateway and attach it to the VPC.
- Create and configure route tables and associate them with subnets.
- Define security groups with rules for HTTP and SSH access.
- Generate and manage EC2 key pairs.
- Launch and configure EC2 instances.
- Use Terraform Provisioners to copy files and execute remote commands on the EC2 instances.

Application Deployment in EKS Cluster

Tools Used: AWS EKS, AWS CLI, AWS Fargate, IAM, AWS Elastic Load Balancer

Description: Deployed an application on AWS Elastic Kubernetes Service (EKS) using Fargate profiles for server less compute. Implemented Ingress for managing external customer requests, integrated an OIDC provider for authentication, and utilized the AWS Load Balancer Controller. Installed Helm for managing Kubernetes applications and configured IAM policies to ensure secure external access.

CERTIFICATES

AWS Cloud Practitioner Essentials - AWS

AWS Solution Architect - Micro Degree

DevOps Engineer - Micro Degree

EDUCATION

Mangalore University

- Bachelor of Commerce