Penna Maheshbabu
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Professional Summary

Highly motivated and technically proficient Cloud Support Associate with a strong foundation in systems administration, network administration, and DevOps. Skilled in troubleshooting, providing exceptional customer support, and applying advanced troubleshooting techniques to deliver tailored solutions. Adept at learning and using groundbreaking technologies to resolve customer issues and improve support processes.

Education

Bachelor of Technology in Electronics And Communication Engineering
JTUGV, Vishakapatnam, Andhra Pradesh
Graduated: April 2023
CGPA: 8.31

Technical Skills

- **Programming/Scripting:** Python
- **Operating Systems:** Linux (Ubuntu, RedHat), Windows
- **Networking:** TCP/IP, DNS
- **Cloud Computing:** AWS (S3, EC2, AMI, CloudFront, SimpleDB)
- **Database:** SQL
- **Tools/Technologies:** Git, Docker, Jenkins, Kubernetes

Projects

Three Tier Architecture Deployment on AWS EKS

- Deployed a three-tier architecture for Stan's Robot Shop on AWS EKS, setting up presentation, application, and database layers to ensure scalability, resilience, and separation of concerns.
- Installed and updated kubectl, eksctl, and AWS CLI for seamless interaction with Kubernetes clusters and AWS services.
- Set up an EKS cluster using eksctl, configuring it according to specific requirements.
- Established a link between the EKS cluster and IAM for secure authentication (OIDC IAM Setup).

- Configured AWS Load Balancer Controller to manage Application Load Balancers on Amazon EKS (ALB Configuration).
- Configured IAM permissions for Amazon EBS CSI plugin to enable calls to AWS APIs (EBS CSI Plugin Configuration).
- Utilized Helm to deploy Stan's Robot Shop, managing each component seamlessly.
- Applied Ingress resource configuration to allow external access to the Robot Shop application.

AWS Cloud Cost Optimization - Identifying Stale Resources

- Created a Lambda function to identify and delete EBS snapshots no longer associated with any active EC2 instance to save on storage costs.
- The Lambda function fetches all EBS snapshots owned by the account and retrieves a list of active EC2 instances (running and stopped).
- For each snapshot, the function checks if the associated volume is not associated with any active instance, and if a stale snapshot is found, it deletes it, optimizing storage costs.

Certifications

- AWS Certified Solutions Architect – Associate
    - Credential ID: FM9VT8YC7EVEQZ56

Hobbies

- Swimming
- Playing Cricket
- Reading Epics
- Listening to music

Personality Traits

- Sincere and hardworking
- Ability to work in time
- Adaptable to new and challenging environments
- Enthusiastic and good team player

Languages

- English
- Telugu