Darshan M

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Objective

Experienced System Engineer skilled in AWS cloud technologies with 1+ year of practical expertise. Completed a 4-month DevOps Engineer internship specializing in cloud architecture and CI/CD pipelines. Proficient in Kubernetes, Jenkins, Ansible, Docker, Prometheus, and Grafana for streamlined container orchestration, continuous integration, and monitoring.

Experience

- **System Engineer El Camino Software Private Limited, Jan 2023 - Present**   -

  AWS(Amazon Web Services)
  IAM (Identity and Access Management):
    - Proficient in managing AWS IAM for secure access control, including creating and managing users, groups, and roles.
    - Capable of integrating IAM with AWS services to enforce least privilege access and enhance overall security posture.

  ### Auto Scaling and Load Balancing:
    - Proficient in configuring Auto Scaling Groups to dynamically adjust resources based on demand.
    - Experienced in setting up Elastic Load Balancers (ELBs) for distributing traffic across instances.

  VPC(Virtual Private Cloud)
    - Designed secure network architectures using VPCs and subnets.
    - Configured route tables for efficient traffic routing.

  Route 53
    - Proficient in Amazon Route 53 for DNS management, ensuring high availability and efficient traffic routing for web applications.
    - Experienced in architecting scalable infrastructures on AWS, utilizing Route 53's features for global traffic distribution and seamless failover mechanisms.

  Amazon S3 (Simple Storage Service):
    - Experienced in managing Amazon S3 for secure and scalable storage, including configuring buckets and access controls.
    - Proficient in optimizing data storage with S3 features like versioning and cross-region replication.

  Linux System Administration:
    - Proficient in administering various Linux-based operating systems (Ubuntu and RHEL) with extensive experience in installation, configuration, and maintenance of Linux servers.

  Server and Service Management:
    - Skilled in configuring and managing web servers (Apache), database servers (MySQL).

  Scripting and Automation:
    - Proficient in Bash scripting to automate system administration tasks, streamline deployments, and enhance system scalability and reliability.
    - Automating MySQL backups to securely transfer data to a remote folder using SSH and Samba protocols, and implementing scripts to clean up old backups for efficient storage management.

  Monitoring and Troubleshooting:
    - Expertise in monitoring server performance, analyzing system logs, and promptly identifying and resolving issues to ensure optimal server functionality.

  Network Services Configuration:
    - Experienced in configuring network services including DHCP, DNS, VPN, and firewall rules to ensure secure and efficient network operations.

- **DevOps Engineering Intern Besant Technologies, Dec 2024 - April 2024**   -
  DEVOPS
  Jenkins:
    - Configured Jenkins master/slave nodes for parallel/distributed builds.
    - Integrated Jenkins with GitHub using webhooks.
    - Used Jenkins backup plugin to backup/restore data.
    - Implemented poll SCM strategy for periodic builds.

Docker:
- Managed docker volumes, ports, and networks.
- Built and pushed custom docker images to docker hub.
- Troubleshot and resolved docker-related issues, such as image size, network.
- connectivity, and resource allocation, using tools such as docker inspect, and docker logs.

Kubernetes:
- Deployed and managed containerized applications using Kubernetes.
- Created and configured Kubernetes resources using YAML and kubectl.
- Implemented service discovery and load balancing for microservices.

Maven:
- Responsible for taking the source code and compiling using MAVEN and package in its distributable format such as JAR,WAR.

Ansible & Terraform:
- Designed and implemented cloud infrastructure using terraform.
- Automated and optimized cloud provisioning and configuration using terraform commands.
- Proficient in automating IT infrastructure tasks using Ansible, reducing manual effort and ensuring consistency across
- environments.
- Experienced in writing Ansible playbooks to configure and manage servers, applications, and network devices efficiently.

Prometheus with Grafana for powerful monitoring and visualization:
- Configure Prometheus as the data source in Grafana to access metrics collected from monitored systems and services.
- Leverage Grafana's rich visualization capabilities to create insightful dashboards, enabling real-time monitoring, analysis, and alerting for infrastructure and applications.

ChatGPT:
- Utilized assistance from ChatGPT to brainstorm ideas and implement innovative solutions in my work, leveraging its guidance to support diverse tasks and projects effectively.

Education

- **Degree - Don Bosco Institute Of Technology/VTU**   2019-2022
  Bachelor of Engineering(Computer Science)
  7.06 CGPA

- **Diploma - Computer Science Engineering**   2015-2019
  BES Institute Of Technology
  70.4%

Projects

- **Automated Deployment Pipeline:**
  - Developed a CI/CD pipeline using Jenkins to automate the deployment process of a web application.
  - Integrated Git version control with Jenkins to trigger automated builds and deployments upon code commits.
  - Utilized Docker for containerization to ensure consistency across development, testing, and production environments.

- **Dockerized Jenkins CI/CD Pipeline:**
  - The Dockerized Jenkins CI/CD Pipeline project aims to automate the software development process using Docker containers and Jenkins. This pipeline is designed to manage the building, testing, and deployment of Dockerized applications seamlessly.

Certifications

- AWS Certified Cloud Practitioner, Amazon Web Services, 2023
- Java J2EE/Training, Capgemini, 2023
- DevOps Methodologies Intern, Besant Technologies, 2024

Technical Skills

- **Operating Systems:** Windows, Linux (RHEL, Ubuntu)
- **Version Control System:** Git, GitHub, Bitbucket
- **Build Tool:** Apache Maven
- **Continuous Integration Tool:** Jenkins
- **Containerization Tool:** Docker
- **Container Orchestration Tool:** Kubernetes, EKS
- **Cloud Environments:** AWS
- **Monitoring Tools:** CloudWatch, Prometheus & Grafana, ELK