Tanuja Nalam

Hyderabad   tanujanalam@gmail.com   +919398131134   LINKEDIN

Profile

AWS DevOps Engineer with 3.7 years of experience in managing cloud infrastructure, CI/CD pipelines and automation. Expertise in Infrastructure as Code (IaC) tools like Terraform and Ansible. Hands-on experience in containerization using Docker and orchestrating workloads with Kubernetes on AWS. Strong background in Linux environments with advanced scripting in Python. Experienced in SCM management, observability tools (Prometheus, Grafana) and implementing DevSecOps practices.

Technical Skills

- **AWS Services:** EC2, S3, ECS, EKS, RDS, Lambda, VPC, CloudWatch
- **CI/CD Tools:** Jenkins, GitHub, CodePipeline
- **IaC Tools:** Terraform, Ansible
- **Containerization:** Docker, Kubernetes
- **Monitoring:** Prometheus, Grafana
- **Scripting Languages:** Python
- **DevSecOps Tools:** IAM, Trivy, SonarQube
- **Other:** Linux Administration , Agile Development

Certifications

- **AWS Certified SysOps Administrator Associate (SOA-C02)**
- **AWS Certified Solutions Architect Associate (SAA-C03)**
- **AWS Certified Cloud Practitioner(CLF-C02)**

Experience

AWS DevOps/Cloud Engineer
Tata Consultancy Services (TCS)   Nov 2022 - Present

- **Cloud Infrastructure & IaC Automation:**
    - Managed AWS services including **EC2, S3, RDS, ECS, EKS and Lambda** to maintain secure, resilient and highly available environments.
    - Automated infrastructure provisioning using **Terraform** to ensure consistency across development, testing and production environments.
    - Created and maintained **Ansible playbooks** to automate configuration management across hundreds of virtual machines.

- **CI/CD Pipeline Development:**
    - Designed and implemented end-to-end CI/CD pipelines using Jenkins, integrating with GitHub, Docker and Kubernetes.
    - Reduced deployment times by automating build, test and release processes.
    - Configured Jenkins agents for distributed builds, ensuring optimal utilization of resources.
    - Set up webhooks between GitHub and Jenkins to trigger automated builds upon code commits.

- **Containerization & Orchestration:**

  - Built and optimized **Docker images** for microservices, ensuring lean and efficient containers for faster deployments.
  - Deployed and scaled workloads using Kubernetes on AWS EKS with seamless rolling and blue-green deployments.
  - Automated scaling and load balancing of services using Kubernetes Horizontal Pod Autoscaler and integrated AWS ALB.

- **Observability & Monitoring:**

  - Implemented **RBAC** and IAM policies to enforce least-privilege access across Kubernetes workloads and cloud resources.
  - Set up **Prometheus** and **Grafana** dashboards to monitor key metrics and alerts, ensuring proactive incident management.
  - Automated alerts with **CloudWatch** for AWS resources to detect anomalies and prevent outages.

- **DevSecOps:**

  - Integrated security scans using **Trivy** and **SonarQube** in CI/CD pipelines to ensure compliance and code quality.
  - Implemented **IAM** policies and roles to enforce the principle of least privilege across the cloud environment.
  - Conducted vulnerability assessments and remediated issues in pipelines and containerized applications.

- **Scripting & Automation:**

  - Automated repetitive tasks using **Python** improving operational efficiency.
  - Developed custom scripts to automate log analysis and reduce manual intervention for incident management.

- **Migration & Troubleshooting:**

  - Implemented automated backup and recovery strategies for critical AWS resources, reducing downtime and ensuring business continuity in case of failures.
  - Conducted root cause analysis for production issues and implemented automated recovery mechanisms.
  - Reduced MTTR (Mean Time to Recovery) by streamlining incident management workflows.

Education

Bachelor of Engineering in Electronics and Communication Engineering

Vignan's University, Andhra Pradesh   June 2022