Rituraj Debnath

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PROFESSIONAL SUMMARY

Enthusiastic and detail-oriented graduate with a strong foundation in Cloud and DevOps practices. Hands-on with AWS, Kubernetes, Terraform, Docker, Ansible, Helm, and GitHub Actions. Experienced in CI/CD and setting up observability with Prometheus and Grafana. Focused on building scalable and well-automated systems.

EDUCATION

B.Tech in Computer Science and Engineering , Internet of Things and Cyber security Including Blockchain Technology

Future Institue of Technology (2021-2025)

Languages

- Bengali (Native)
- English (Fluent)
- Hindi (Fluent)

SKILLS

- Cloud Platforms: AWS
- Configuration Management :Ansible
- IAC Tool : Terraform
- Containerization & Orchestration: Docker, Kubernetes, Helm
- Programming: Python
- Version Control: Git, GitHub
- Monitoring Tools: Prometheus,Grafana

CERTIFICATIONS & LICENSES

- AWS Certified Solutions Architect Associate
- AWS Solutions Architect job simulation by forage
- IEEE Conference Paper
- Efset Ef Standard English Test
- Kodekloud Kubernetes for Begineers
- Career Essentials in System Administration by Microsoft

PROJECT SUMMARY

Multi Microservice based Ecommerce Devops Implementation

- Designed and deployed a multi-microservice architecture on Amazon EKS, ensuring high availability and scalability.
- Implemented Infrastructure as Code (IaC) with Terraform, automating the provisioning of EKS clusters, VPC components, and networking resources.
- Developed a CI/CD pipeline using GitHub Actions and ArgoCD, enabling seamless automated deployments and GitOps-driven continuous delivery.
- Containerized microservices using Docker and orchestrated them with Kubernetes, ensuring efficient workload management.
- Configured AWS ALB Ingress Controller for secure traffic routing, integrating TLS certificates and custom domain setup for production-grade access.
- Applied best security practices with IAM roles, security groups, and AWS-native authentication mechanisms.

SECURE NETWORKING SETUP ON AWS

- Designed and deployed a secure multi-tier architecture on AWS, implementing VPCs, private and public subnets, and NAT Gateways for restricted internet access.
- Configured IAM policies for granular access control to AWS resources, adhering to best practices for cloud security.
- Enforced S3 bucket policies and enabled server-side encryption (SSE) for data protection.
- Set up CloudTrail for tracking user activity and auditing AWS account usage.
- Monitored network traffic using VPC Flow Logs and enhanced security with security groups and NACLs (Network Access Control Lists).

DEVOPS MONITORING STACK FOR KUBERNETES WITH HELM-BASED PROMETHEUS & GRAFANA

- Deployed a microservice-based application on a Kubernetes cluster using KIND (Kubernetes IN Docker) for local testing and development.
- Containerized services using Docker and created Kubernetes manifests for deploying multiple interdependent microservices.
- Integrated Prometheus and Grafana using the kube-prometheus-stack Helm chart to set up real-time observability.
- Built custom Grafana dashboards to monitor Kubernetes nodes, pods, and application-specific metrics for enhanced visibility.
- Ensured efficient monitoring by configuring alert rules, data sources, and metric scrapes tailored to Kubernetes workloads.
- Focused on hands-on Helm usage for simplifying deployment and management of observability tools in Kubernetes.