Amarnath M

AWS DevOps Engineer

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Summary

Results-oriented and detail-driven **AWS DevOps Engineer** with 3.5 years of experience in automating deployments, managing cloud infrastructure, and implementing CI/CD pipelines. Skilled in containerization, orchestration, and infrastructure as code using Docker, Kubernetes, and Terraform. Experienced in configuring and optimizing CI/CD workflows with Jenkins, GitHub, and Nexus, ensuring rapid and reliable software delivery. Adept at monitoring and observability with Prometheus, Grafana, and the EFK stack, enabling proactive issue detection and resolution. Proven ability to collaborate with cross-functional teams to streamline development processes, reduce downtime, and enhance scalability in cloud-native environments. Committed to delivering secure, resilient, and high-performing systems by applying industry best practices in DevOps and AWS cloud engineering.

Technical Skills

Version Control: Git, GitHub
Build Tools: Maven
Cloud: AWS
Scripting: Shell Scripting, Python
CI/CD: Jenkins
Infrastructure as Code: Terraform
GitOps: ArgoCD
Containerization Orchestration: Docker, Kubernetes
Docker Registry: AWS ECR, Docker Hub
Monitoring Alerting: Prometheus, Grafana, CloudWatch
Artifact Repository: Nexus Artifactory
Code Quality: SonarQube
Logging: EFK Stack (Elasticsearch, Fluentd, Kibana)

Experience

AWS DevOps Engineer
Capgemini Technology Services India Limited

Oct 2024 – Present
Bengaluru, India

- Automated CI/CD pipelines integrating Git, Nexus, SonarQube, Maven, Jenkins, and Docker, enabling rapid deployments to AWS EKS.
- Managed source code repositories using Git and GitHub, performing branching, merging, and tagging as required.
- Performed continuous build and deployments across multiple DEV, QA, PRE-Prod, and PROD environments.
- Integrated SonarQube with Jenkins for continuous code quality inspection and analysis using the SonarQube scanner for Maven.
- Integrated Nexus Repository with Jenkins for storing artifacts and managing dependencies.
- Managed container-based deployments using Docker, storing Docker images securely in AWS ECR and Docker Hub.
- Identified troubleshooting and resolved build and deployment issues, reducing downtime.
- Deployed containerized applications on Kubernetes using Helm charts and managed rolling updates with GitOps via Argo CD.

- Set up and managed Prometheus and Grafana, delivering real-time monitoring and alerts with custom dashboards for faster issue detection.
- Implemented centralized logging with the EFK stack, enabling faster root cause analysis and improved system observability.
- Implemented infrastructure using Terraform, reducing manual effort and improving consistency across environments.
- Developed shell scripts for automating node health checks, resource monitoring, and scheduled maintenance tasks.
- Managed and configured infrastructure on AWS, including AWS IAM, VPC, EC2, EKS, EBS, S3, ELB, Auto Scaling, Route 53, CloudFront, CloudWatch, CloudTrail, AWS RDS, AWS DynamoDB, AWS Lambda, and SNS.

AWS DevOps Engineer   Aug 2022 – Sep 2024
Wissen Infotech   *Bengaluru, India*

- Developed and maintained end-to-end CI/CD pipelines using Jenkins, GitHub, Maven, and Docker, ensuring automated multi-environment deployments.
- Implemented Infrastructure as Code (IaC) using Terraform for consistent environment provisioning across DEV, QA, and PROD.
- Managed containerized deployments on Docker and Kubernetes, creating Helm charts for efficient application releases.
- Configured monitoring and alerting using Prometheus, Grafana, and CloudWatch for application performance and system health.
- Integrated SonarQube in the CI/CD pipelines to enforce code quality and maintain DevOps best practices.
- Collaborated with cross-functional teams to troubleshoot and resolve build/deployment issues, reducing downtime.

- Provisioned and managed AWS resources (EC2, S3, RDS, IAM, CloudWatch) for scalable and secure application hosting.
- Configured VPCs, subnets, and security groups to ensure secure network architecture across environments.
- Created complex IAM policies, roles, and user management for delegated access within AWS, adhering to the principle of least privilege.
- Created and managed S3 buckets and implemented lifecycle policies and versioning, ensuring data durability and cost optimization.
- Created CloudWatch dashboards, metrics, alarms, and notifications, proactively monitoring system performance and health.
- Utilized AWS CloudTrail for auditing and compliance, tracking API calls and configuration changes.

EDUCATION

Sri Venkateswara University   Tirupati, India
Bachelor of Science in Computer Science   *2018 – 2021*

CERTIFICATIONS

AWS Certified Cloud Practitioner