SHUBHAM TYAGI
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Profile Summary

Over 3.8 years of hands-on experience automating DevOps practices and managing continuous integration and delivery workflows in the technology industry. Working as a DevOps Engineer at Cognizant, contributing to innovative solutions and driving operational efficiencies. Showcased expertise in managing AWS infrastructure, utilizing Terraform, Docker, and Kubernetes to facilitate efficient and reliable deployment processes. Displayed a proven track record in automating deployment workflows, improving system reliability and operational performance. Possess an understanding of monitoring solutions such as Prometheus and Grafana, enhancing visibility and observability across various system components. Cultivated a robust foundation in containerization techniques, configuration management practices, and version control methodologies to support collaborative development efforts. Dedicated efforts to achieving high availability and operational excellence by implementing automation strategies across various processes.

Core Skills

AWS, Terraform, Docker, Kubernetes, Jenkins, Git, GitLab, Ansible, Prometheus, Grafana, Python, Bash, Agile

Core Competencies

Cloud Infrastructure Management - Managing cloud resources for high availability and scalability.
CI/CD Pipeline Automation - Automating software delivery pipelines for faster and more reliable releases.
Infrastructure as Code (IaC) - Managing and provisioning infrastructure through code.
Containerization and Orchestration - Deploying and managing applications in containers using orchestration tools.
Cloud Security & Compliance - Implementing security measures to protect cloud resources and meet compliance requirements.
Change Management - Managing changes to systems and processes to minimize disruption.
Risk Assessment - Identifying and mitigating potential risks to systems and applications.
PostgreSQL - Relational database management system for structured data.
MongoDB - NoSQL database for flexible and scalable data storage.
Redis - In-memory data structure store, used as a database, cache, and message broker.
DynamoDB - NoSQL database service for high-performance applications.
Nginx - High-performance web server and reverse proxy.
Apache - Open-source web server software.
Load Balancers - Distributing network traffic across multiple servers.
Firewalls - Network security systems that control incoming and outgoing network traffic.

Technical Skills

Cloud Computing: AWS (EC2, IAM, S3, RDS, ALB, NLB, Lambda, VPC, Route 53, Security Groups, CloudWatch, ECS, EKS)
Databases: MySQL, PostgreSQL, MongoDB, Redis, DynamoDB
Containerization: Docker, Kubernetes(k8s)
DevOps Tools: Jenkins, GitLab CI, Git, GitHub Actions, CI/CD
Infrastructure as Code: Terraform
Configuration Management: Ansible

Programming Languages: Python, Bash
Operating Systems: Windows, Linux/Ubuntu

Work Experience

Cognizant, Noida (Senior Infra Developer) Dec'24 – Present
- Contributed to multi-region migration and infrastructure expansion across multiple AWS regions.
- Upgraded Helm versions for new regions, ensuring compatibility with application deployment pipelines.
- Updated Jenkinsfiles to support multi-region builds using dynamic parameters, streamlining deployment.
- Managed and updated secrets for newly added regions to maintain secure access and compliance.
- Created and managed Kubernetes clusters in new regions using Terraform, ensuring scalability.
- Implemented and maintained monitoring solutions using AWS CloudWatch and Datadog.
- Created feature branches in GitHub and collaborated on code reviews using standard Git practices.
- Refactored Terraform configurations to support multi-region deployments and automate provisioning.

Motherson Technology Services Ltd., Noida
Cloud Engineer (Nov'2021 to Nov'2023)
- Provisioned and managed AWS services (EC2, IAM, S3, RDS, Lambda, VPC, Route 53, EKS).
- Optimized storage solutions using EBS volumes and AWS LVM.
- Spearheaded containerization using Docker and orchestrated microservices with Kubernetes.
- Developed and maintained Docker images and containers for consistent deployment practices.
- Designed and maintained CI/CD pipelines with Jenkins, enhancing software delivery lifecycle efficiency.
- Set up secure communication channels through Site-to-Site and Point-to-Site VPN connections.
- Implemented IAM roles and policies, enhancing data protection and compliance.
- Developed AWS infrastructure using Terraform, streamlining deployment and enhancing scalability.
- Utilized Git, GitLab, and GitHub for continuous development workflow.
- Created file systems with LVM, developing PVs and VGs tailored to project specifications.
- Implemented AWS Systems Manager for automated patch management and used AWS CloudWatch for monitoring.
- Established and managed backup protocols using AWS Backup and snapshots.
- Analyzed AWS resource usage, leading cost-reduction efforts through automation and best practices.
- Engaged with development and operations teams to align on project objectives and delivery timelines.

DevOps Engineer (Nov'2023 to Present)

- Built robust AWS infrastructure from scratch using Terraform, improving deployment efficiency and scalability.
- Automated provisioning of VPC, EC2, ALB, EBS, NLB, IAM, and S3 resources.
- Implemented Docker-based containerization and orchestrated services with Kubernetes.
- Created and managed Docker images and containers for consistent deployment.
- Utilized Ansible for consistent setup across environments.
- Developed and maintained Docker files, aiding in creating base images for QA and Performance teams.
- Set up monitoring with Prometheus and Grafana, enhancing visibility into system health.
- Created scripts for proactive issue resolution across build machines, CI/CD applications, and Kubernetes clusters.
- Prepared end-to-end pipelines with Jenkins, automating software releases and minimizing downtime.
- Managed Jenkins pipelines for integration, nightly, and release builds, reducing manual effort.
- Managed GitLab repositories, merge requests, and branches according to project requirements.
- Utilized GitHub for collaboration and version control.
- Integrated SonarQube for code analysis, ensuring code quality and security.
- Conducted Trivy scans for Docker images to identify vulnerabilities.
- Worked with Kubernetes resources including deployments, namespaces, persistent volumes, services, and configmaps.
- Developed YAML configurations for infrastructure as code management.

Progressive Info Vision Pvt Ltd. (Desktop Support Engineer) Oct 2019 to Nov 2020

Education

2019: B.Tech. in Mechanical Engineering from Dr. A.P.J. Abdul Kalam Technical University, Lucknow

Certification

AWS Certified Solutions Architect from AWS

Personal Details

Date of Birth: 26th Jan 1998
Languages Known: English & Hindi