Rahul Varne

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Summary
Cloud DevOps Intern with expertise in designing and automating scalable cloud solutions using AWS, Terraform, and containerization technologies like Docker and Kubernetes. Proven track record of implementing CI/CD pipelines, optimizing cloud resources, and deploying cost-effective, fault-tolerant architectures. Strong knowledge of Linux systems and networking concepts, with hands-on experience in delivering high-availability solutions.

Skills

- **Operating Systems:** Linux (Ubuntu), Windows
- **Version Control Tools:** Git
- **SCM Tools:** GitHub
- **Scripting Languages:** Bash/Shell
- **Databases:** MySQL
- **Web Servers:** NGINX, Apache2
- **Cloud Platforms:** AWS
- **Infrastructure as Code:** Terraform, CloudFormation (basics)
- **CI/CD Tools:** Jenkins
- **Containerization:** Docker
- **Orchestration:** Kubernetes (basics)

Experience

Cloud DevOps Engineer
Hisan Labs Pvt Ltd *May 2024 – Present*

- Designed and maintained **CI/CD** pipelines using **Jenkins**, accelerating software delivery cycles and ensuring consistent deployment.
- Designed and implemented **master-slave architecture** for scalable, fault-tolerant systems, ensuring high availability and load distribution.
- Managed and deployed containerized applications using **Docker** and **orchestrated** them with **Kubernetes** for scalability, fault tolerance, and efficient resource utilization.
- Automated infrastructure provisioning and management using tools like **Terraform**, creating reusable and modular code for cloud resources.
- Built and optimized **AWS cloud solutions**, including compute, storage, networking, security, and virtualization services.
- Implemented and managed **relational** (e.g., MySQL) and **non-relational** (e.g., MongoDB) databases for scalable and reliable storage solutions.
- Developed automation scripts and tools using **Bash** to streamline operational workflows and reduce manual intervention.
- Automated infrastructure deployment using **Terraform** and CloudFormation, following Infrastructure as Code (IaC) principles for consistent and efficient deployments.
- Proficient in **AWS services** such as EC2, S3, EBS, ELB, IAM, Auto Scaling, and CloudFront, with expertise in designing and deploying secure, cost-effective architectures.
- Configured and optimized **VPCs**, subnets, and established cross-region connectivity using AWS VPC Peering, ensuring seamless communication between resources.
- Implemented robust network security using security groups, internet gateways, and route tables for secure cloud environments.
- Used monitoring tools like **CloudWatch** and **Datadog** to track system performance, identify bottlenecks, and resolve issues proactively.
- Configured **S3** buckets with lifecycle policies to optimize storage costs by archiving infrequently accessed data.

- Recovered **lost key pairs** and restored access to critical AWS EC2 instances, ensuring minimal downtime.
- Applied cloud security practices such as **IAM** policy management, data encryption, and firewall configurations to safeguard systems and data.
- Strong understanding of **DNS**, **load balancers**, and multi-tier architecture designs for secure, scalable, and fault-tolerant deployments.

Projects

1.Three-Tier Architecture Design and Deployment Project

- Built a three-layer system (web, application, database) on AWS for hosting web applications.
- Set up VPCs, subnets, and security groups to keep the network secure and organized.
- Used Multi-AZ databases for reliability and to avoid downtime.
- Added Load Balancers (ELB) to evenly distribute traffic for better performance.
- Enabled Auto Scaling to handle traffic changes automatically and save costs. Used IAM roles to manage secure access for different components.
- Monitored performance and fixed issues early with AWS CloudWatch alerts.

2.Angular-Java Project with AWS and Kubernetes

- Created a web app using Angular (frontend) and Java (backend) hosted on AWS.
- Used S3 and CloudFront for fast and secure delivery of website content.
- Deployed backend on Kubernetes clusters with auto-scaling for handling traffic smoothly.
- Managed the database with AWS RDS for data safety and availability.
- Set up CI/CD pipelines for quick and automated code testing and deployment.
- Worked with teams to match the app design to business needs.

Education

Bachelor of Computer Applications (BCA)
Shivaji University, Kolhapur
2021-2024