RIYA SHRIRAME

DevOps Engineer

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Bengaluru, India

PROFESSIONAL SUMMARY

DevOps Engineer skilled in cloud infrastructure management, automation, containerization, and CI/CD pipeline implementation. Proficient in AWS, Docker, Kubernetes, Terraform, Jenkins, and Linux, with hands-on experience in infrastructure as code, deployment automation, system administration, and application orchestration. Familiar with Google Cloud Platform (GCP) and Microsoft Azure, including cloud infrastructure provisioning, networking, and container services. Strong understanding of DevOps best practices, troubleshooting, version control, and building scalable, reliable, and secure cloud environments.

EXPERIENCE

DevOps Engineer | Infosol Technosol, Bengaluru Nov 2024 – Present

Cloud & DevOps Division

- Managed source code using Git and GitHub, including repository management, branching strategies, commits, merges, and GitHub Webhooks for automated workflow triggers.
- Developed and maintained Jenkins CI/CD pipelines to automate application builds, tests, and deployments, integrating SonarQube for static code analysis and code quality checks.
- Containerized applications using Docker and Docker Compose, creating Dockerfiles and managing multi-container environments.
- Built, tagged, and pushed Docker images to Amazon ECR, configuring Docker networking and persistent volumes for application and database containers.
- Deployed and managed containerized applications on Kubernetes using YAML manifests for Deployments, Services, and ConfigMaps, along with Helm charts for application releases.
- Implemented Kubernetes readiness and liveness probes, Horizontal Pod Autoscaler (HPA), and rolling updates to support application availability, scaling, and reliable deployments.
- Automated AWS infrastructure provisioning using Terraform, working with variables, outputs, reusable modules, configuration files, and remote state management.
- Provisioned and managed AWS resources, including EC2, EBS, snapshots, VPCs, subnets, route tables, Internet Gateways, NAT Gateways, Security Groups, and Network ACLs.
- Configured Application Load Balancers, Target Groups, and Auto Scaling Groups to distribute application traffic and support scalable infrastructure.
- Managed AWS services, including S3 for storage, RDS for managed databases, Route 53 for DNS management, CloudFront for content delivery, and Lambda for serverless computing.
- Monitored AWS infrastructure using CloudWatch metrics, logs, and alarms to identify performance issues and troubleshoot resource health.
- Administered Ubuntu Linux servers, handling user and group management, SSH access, file permissions, process management, package installation, and service administration.
- Performed Linux troubleshooting involving network connectivity, disk utilization, system logs, cron jobs, and UFW firewall rules.
- Configured Prometheus and Grafana monitoring to track infrastructure and application metrics and build dashboards for system health and performance analysis.
- Used Datadog for monitoring, metrics visualization, dashboards, and observability, troubleshooting issues across Linux, Docker, Kubernetes, Jenkins, AWS, and application connectivity.

TECHNICAL SKILLS

AWS Services: EC2, S3, IAM, VPC, EBS, Elastic IP, Route 53, CloudFront, ACM, RDS, ECR, ALB, Auto Scaling, Lambda, Security Groups, NAT Gateway, Internet Gateway, Route Tables, CloudWatch

Google Cloud Platform (GCP): Compute Engine, Cloud Storage, IAM, VPC, Cloud Load Balancing, GKE, Artifact Registry, Cloud Monitoring

Microsoft Azure: Virtual Machines, Blob Storage, Virtual Network (VNet), Network Security Groups (NSGs), Azure RBAC, Azure Kubernetes Service (AKS), Azure Container Registry (ACR), Azure Load Balancer, Azure Monitor

CI/CD & Automation: Jenkins, GitHub Actions, GitHub Webhooks, CI/CD Pipelines

Containers & Orchestration: Docker, Docker Compose, Kubernetes, Amazon EKS, Google Kubernetes Engine (GKE), Azure Kubernetes Service (AKS), Helm, kubectl

Infrastructure as Code: Terraform, Terraform Modules, Variables, Outputs

Version Control: Git, GitHub

Scripting Languages: Bash, Shell Scripting

Operating Systems: Linux (Ubuntu, CentOS, Amazon Linux), Windows Server

Databases: MySQL, MongoDB

Monitoring & Observability: Prometheus, Grafana, Datadog, AWS CloudWatch, Google Cloud Monitoring, Azure Monitor
Container Registries: Docker Hub, Amazon ECR, Google Artifact Registry, Azure Container Registry (ACR)
Secrets Management: AWS Secrets Manager, Google Cloud Secret Manager, Azure Key Vault

DEVOPS PROJECTS

Project 1: AWS EKS Microservices Deployment

Technologies: Amazon EKS | Kubernetes | Docker | Amazon ECR | AWS ALB | Route 53 | CloudFront | Amazon S3 | MongoDB Atlas | AWS VPC | IAM

- Provisioned AWS cloud infrastructure using Terraform, including VPC networking, Amazon EKS, S3, CloudFront, and Route 53 resources.
- Built Docker images for frontend and backend services and pushed application images to Amazon ECR for deployment.
- Created Jenkins CI/CD pipelines to automate application build and deployment workflows across frontend and backend components.
- Deployed a React frontend and Spring Boot microservices on Amazon EKS using Kubernetes manifests and ALB Ingress for application traffic routing.
- Configured Amazon S3 and CloudFront for frontend hosting and content delivery, with Route 53 for custom domain routing.
- Integrated backend services with MongoDB Atlas and managed application configuration and environment-specific deployment values.
- Used Git and GitHub for source code management and integrated Terraform, Jenkins, Docker, and Kubernetes throughout the deployment lifecycle.

Project 2: VProfile Application Deployment on Google Cloud

Technologies: Google Cloud Platform (GCP) | Compute Engine | VPC | Cloud Load Balancing | Cloud SQL | Memorystore | Cloud NAT | Cloud Router | Terraform | GitHub Actions | Docker | Git

- Designed and deployed a multi-tier VProfile application on GCP using Compute Engine, VPC networking, and managed cloud services.
- Configured Managed Instance Groups, instance templates, health checks, and autoscaling to provide high availability and scalable application infrastructure.
- Implemented HTTPS Load Balancing with SSL/TLS termination, URL mapping, static IP address, and HTTP-to-HTTPS redirection for secure application access.
- Configured VPC subnets, VPC firewall rules, Cloud NAT, Cloud Router, and a bastion host for controlled network connectivity and secure access to private resources.
- Integrated Cloud SQL for MySQL and Memorystore for Memcached using private connectivity with Private Service Access and VPC networking.
- Automated GCP infrastructure provisioning using Terraform and GitHub Actions, including terraform init, terraform validate, terraform plan, and terraform apply.

Project 3: Azure Kubernetes Deployment

Technologies: Microsoft Azure | AKS | ACR | VNet | NSG | Azure RBAC | Kubernetes | Docker | Terraform | GitHub Actions

- Provisioned Azure infrastructure using Terraform, including Azure resource group, AKS, ACR, VNet, and NSGs.
- Containerized the application using Docker and built, tagged, and pushed versioned container images to Azure Container Registry (ACR).
- Deployed and managed the application on Azure Kubernetes Service (AKS) using Kubernetes Deployments, Services, ConfigMaps, and Secrets.
- Implemented GitHub Actions CI/CD to automatically build Docker images, publish them to ACR, and deploy application updates to AKS.
- Integrated Azure Container Registry (ACR) with Azure Kubernetes Service (AKS) and configured Azure RBAC and managed identity to securely pull private container images.
- Used Terraform to maintain repeatable and version-controlled Azure infrastructure provisioning and Kubernetes manifests for application deployment.

EDUCATION

Bachelor of Technology – Electronics and Telecommunication Engineering

Government College of Engineering, Nagpur | Graduated: 2024