

VARKALA VIVEK VARDHAN

DevOps Engineer



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Professional Summary

DevOps Engineer with **2.3 years** of experience architecting and automating cloud-native, scalable infrastructure across **Azure** and **on-premises** environments. Specialized in **Kubernetes**, **Terraform**, and **Databricks** for delivering high-availability, cost-optimized, and secure deployments. Passionate about building self-service infrastructure, CI/CD automation, and observability frameworks.

Highlights

- Architected and managed **50+ Databricks workspaces** across multiple business units and environments, implementing a **DAB-based CI/CD pipeline** with strong parameterization and minimal developer overhead.
- Skilled in end-to-end infrastructure automation, deploying **Azure Data Factory**, **Event Hubs**, **Databricks**, and **CI/CD agents** via **Terraform**, standardizing delivery across **10+** business units. Passionate about cloud automation, observability, and enabling high-velocity DevOps at scale.

Core Competencies

Cloud & Infrastructure: Azure, Kubernetes, Docker, Terraform, Ansible, Helm

CI/CD & Automation: Azure DevOps, GitOps, Airflow, JFrog Artifactory, SonarQube, Blackduck

Monitoring & Observability: Prometheus, Grafana, Checkmk, ELK Stack, Loki

Data & Analytics: Databricks, Hadoop ecosystem, Superset

Security & Governance: HashiCorp Vault, Azure Key Vault, RBAC, Policy Enforcement

Work Experience

Devops Engineer | Jio Platforms Ltd, Mumbai

Aug 2023 - Present

Responsibilities:

- Orchestrating the **full-cycle development and deployment** of intricate systems within Azure and Hadoop ecosystems
- Clearly defining infrastructure requirements and objectives. Considering **scalability, security, and compliance**.
- Managed and optimized **multiple Kubernetes clusters** hosting diverse application and **ML workloads**, achieving **99.99%** uptime and enhanced resource utilization.
- Integrated **JFrog**, **SonarQube**, in CI/CD pipelines to enforce artifact governance, code quality, and security compliance.
- Configured and maintained **Prometheus**, **Grafana**, and **Checkmk** for real-time monitoring and telemetry visualization, enabling proactive system health analysis across environments.

Key Achievements

- Reduced **Databricks compute cost by 25%** by enforcing cluster policies, optimizing job scheduling, and leveraging **Databricks Asset Bundles** for structured and reusable deployments
- Executed and scaled **CI/CD pipelines** for Hadoop, Kubernetes, and Databricks environments, achieving a **60% boost in deployment efficiency** and **30% reduction in release-related errors** through automation and code quality integration
- Reduced idle compute by **30% through autoscaling** with **KEDA** and **Kafka** metrics ensuring 100% uptime.
- Scaled secret management throughput **beyond 20K RPS** by architecting high-availability **HashiCorp Vault** infrastructure.

Projects

- **Jio New Energy Platform | Jan'25 - Ongoing**
Designed and deployed a **cost-optimized, secure Databricks architecture** by provisioning shared clusters with Unity Catalog across multiple workspaces. Integrated Azure Key Vault for secret management and implemented Databricks Asset Bundles (DAB) for CI/CD automation.
- **Real-Time High-Scale Data Migration | Aug'25 - Ongoing**
Automated scalable Azure infrastructure using Infrastructure as Code (Terraform) to enable ingestion and processing of petabytes of data. Provisioned **ADF, Event Hubs, ADLS, and CI/CD agent VMs** across 10+ business units, ensuring version-controlled deployments.
- **Scalable Orchestration Service Architecture | May'25 - August'25**
Developed a **high-availability Airflow architecture** (API servers, schedulers, executors) with PCS-based auto-failover and remote logging, eliminating single points of failure and improving reliability.
- **Reliance Foundation Hospital | May'24 - Aug'24**
Built a secure Kubernetes infrastructure alongside a Hadoop cluster to support **ML-driven healthcare predictions** for patient illness likelihood. Developed and maintained the image build pipeline with integrated security scanning, ensuring compliance and hardened container deployments.

Education

- **National Institute of Technology, Tiruchchirapalli** **2019 - 2023**
B.Tech in Electronics and Communication Engineering | GPA: 8.6

Certifications

- Microsoft Certified: Azure Administrator Associate (AZ-104)
- Microsoft Certified: Azure Fundamentals (AZ-900)
- Databricks Platform Administrator
- Airflow Administrator