

# SAI KRISHNA VEMPATI

## Azure Cloud & DevOps Engineer

Terraform | GitHub Actions | Docker & AKS | CI/CD Pipelines | Azure Administration | Hybrid Cloud

Hyderabad, Telangana, India | +91 9390715287 | vemsaikrishna@gmail.com

[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

### Professional Summary

Azure Cloud & DevOps Engineer with **2.5+ years of IT experience** supporting enterprise hybrid infrastructure across Microsoft Azure, Windows Server, VMware, and Hyper-V. Experienced in managing **100+ Windows servers**, maintaining a **99% infrastructure SLA**, Azure cloud migrations, Terraform Infrastructure as Code (IaC), GitHub Actions CI/CD pipelines, containerization (**Docker, AKS, Helm**), identity management, monitoring, and disaster recovery. Hands-on experience building reusable Terraform modules, Azure Landing Zones, secure CI/CD workflows, OIDC authentication, and automated cloud governance solutions.

### Technical Skills

**Cloud Platforms:** Microsoft Azure, Amazon Web Services (AWS), Azure Virtual Machines, Virtual Network (VNet), Azure Storage, Azure Bastion, Azure Web Apps, Azure Container Registry (ACR)

**Infrastructure as Code:** Terraform, Terraform Modules, Root & Child Modules, Remote Backend, State Management, Infrastructure as Code (IaC)

**DevOps & CI/CD:** Git, GitHub, GitHub Actions, Azure DevOps, Jenkins, CI/CD Pipelines, SonarQube, GitOps

**Containers & Orchestration:** Docker, Kubernetes, Azure Kubernetes Service (AKS), Helm Charts, Containerization

**Identity & Security:** Microsoft Entra ID, Active Directory, Azure AD Connect, RBAC, Azure Policy, Azure Key Vault, OIDC Authentication

**Monitoring & Observability:** Azure Monitor, Log Analytics Workspace, Dynatrace OneAgent

**Virtualization & Operating Systems:** VMware ESXi, Hyper-V, Windows Server 2019/2022, Ubuntu Linux, Red Hat Enterprise Linux (RHEL)

**Automation & ITSM:** PowerShell, Azure CLI, ServiceNow, ITIL v4

### Professional Experience

#### HCLTech

Dec 2023 – May 2026

##### Analyst – Hybrid & Azure Cloud Administrator

Jan 2025 – May 2026

- Managed enterprise hybrid infrastructure supporting **500+ Windows Servers** across Microsoft Azure, VMware, and Hyper-V while maintaining a **99% infrastructure SLA**.
- Implemented reusable **Terraform modules** for Azure networking, compute, AKS, monitoring, and security resources, improving deployment consistency and reducing manual provisioning time.
- Implemented **Azure AD Connect** for synchronization between on-premises Active Directory and Microsoft Entra ID to support enterprise identity and access management.
- Implemented centralized monitoring using **Azure Monitor, Log Analytics, and Dynatrace OneAgent** across **50+ infrastructure instances**.
- Developed **GitHub Actions CI/CD pipelines** for automated Terraform formatting, validation, planning, security checks, and controlled production deployments.
- Implemented Azure Storage Remote Backend with state locking to enable centralized, secure, and collaborative Infrastructure as Code workflows.
- Coordinated disaster recovery testing and cloud failover activities for **20+ critical workloads** and resolved high-priority Windows application, authentication, and SQL connectivity incidents.

##### Azure Windows Administrator – Wintel, Azure & Virtualization Engineer

Dec 2023 – Dec 2024

- Managed VMware ESXi and Hyper-V virtualization environments including VM provisioning, storage expansion, cluster health checks, troubleshooting, and lifecycle operations.
- Migrated **50+ on-premises servers to Microsoft Azure** using Azure Migrate, executing replication, test failovers, and production cutover activities.
- Configured Azure Backup and **Azure Site Recovery (ASR)** for workload replication and disaster recovery aligned with strict business RTO/RPO requirements.
- Resolved **15+ high-priority infrastructure incidents** involving operating systems, storage, networking, and hypervisor issues.
- Automated infrastructure inventory collection across **200+ servers** using PowerShell scripts and supported ITIL change management processes through ServiceNow.

### Selected Cloud & DevOps Projects

#### Azure Terraform FinOps Platform

Terraform | Azure | GitHub Actions | Infracost | OIDC

- Built a Terraform-based Azure FinOps workflow featuring **Infracost pre-deployment cost estimation, OIDC authentication, and mandatory tagging governance**.
- Configured a \$250/month budget guardrail in CI/CD, automatically blocking non-compliant infrastructure changes.

(saving an estimated +\$287/month) via automated GitHub Actions checks.

### Enterprise Azure Landing Zone Automation

*Terraform / GitHub Actions / Azure / AKS*

- Built modular Azure Landing Zone infrastructure using reusable Terraform modules for VNets, Subnets, NSGs, Bastion, Virtual Machines, AKS, and Log Analytics.
- Implemented Terraform remote state and GitHub Actions workflows for **formatting, validation, planning, approval gates, and controlled deployment**.

### Terraform Multi-Tenant Azure Platform

*Terraform / OIDC / Checkov / GitHub Actions*

- Built a multi-tenant Azure infrastructure platform using reusable Terraform modules, remote state, and environment-specific configuration files.
- Implemented OIDC authentication, **Checkov security scanning**, Terraform plan review, approval gates, and automated drift detection.

### Automated Azure Terraform Drift Detection

*Terraform / GitHub Actions / OIDC*

- Automated scheduled Terraform drift detection for Azure infrastructure using GitHub Actions scheduled workflows and Terraform Plan.
- Used OIDC-based Azure authentication to detect infrastructure drift dynamically without storing long-lived credentials.

## Certifications

|                                                             |                     |
|-------------------------------------------------------------|---------------------|
| Microsoft Certified: Azure DevOps Engineer Expert (AZ-400)  | Microsoft           |
| Microsoft Certified: Azure Administrator Associate (AZ-104) | Microsoft           |
| Microsoft Certified: Azure Fundamentals (AZ-900)            | Microsoft           |
| Microsoft Certified: Azure AI Fundamentals (AI-900)         | Microsoft           |
| AWS Certified Cloud Practitioner                            | Amazon Web Services |
| ITIL 4 Foundation Certificate in IT Service Management      | AXELOS              |

## Education

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|---------------------------------------------------------------------------|---------------|
| Bachelor of Technology (B.Tech) – Electronics & Communication Engineering | 2019 – 2023   |
| DVR & Dr. HS MIC College of Technology                                    | CGPA: 8.90/10 |