

SAI KRISHNA VEMPATI

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Professional Summary

Results-driven **Hybrid Cloud, Azure & DevOps Engineer** with **2.5+ years** of experience designing, automating, and managing enterprise cloud and hybrid infrastructure supporting **500+ Windows servers** while maintaining **99% infrastructure SLA**. Experienced in Microsoft Azure, AWS, VMware, Hyper-V, Terraform Infrastructure as Code (IaC), GitHub Actions CI/CD, Azure DevOps, Docker, Kubernetes (AKS), Azure Networking, Identity Management, Monitoring, Disaster Recovery, and Infrastructure Automation. Demonstrated expertise in building reusable Terraform modules, implementing enterprise Landing Zones, automating production deployments using CI/CD pipelines, and delivering secure, scalable, highly available cloud platforms aligned with enterprise DevOps best practices.

Technical Skills

Cloud Platforms	Microsoft Azure, Amazon Web Services (AWS), Azure Virtual Machines, Azure Virtual Network (VNet), Azure Storage, Azure Bastion, Azure Monitor, Azure Log Analytics
Infrastructure as Code	Terraform, Terraform Modules, Remote Backend, State Management, Infrastructure as Code (IaC)
DevOps	Git, GitHub, GitHub Actions, Azure DevOps, Docker, Azure Kubernetes Service (AKS), CI/CD Pipelines
Identity & Security	Microsoft Entra ID, Active Directory, Azure AD Connect, RBAC, Azure Policy, Azure Key Vault
Monitoring	Azure Monitor, Log Analytics Workspace, Dynatrace OneAgent
Operating Systems	Windows Server, Ubuntu Linux, Red Hat Enterprise (RHEL)
Automation	PowerShell, Azure CLI

Professional Experience

ANALYST – Hybrid & Azure Cloud Administrator

Jan 2025 – May 2026

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Hybrid, India

- Collaborate within a core infrastructure team of 4 Administrators, including 2 Senior Certified Azure Solutions Architects, to manage a comprehensive hybrid ecosystem of **500+ Windows Servers (2019/2022)**.
- Collaborated with cloud architects and infrastructure teams to implement reusable Terraform modules, enabling standardized enterprise deployments, improving infrastructure consistency, and accelerating provisioning across Azure environments.
- Spearheaded enterprise identity management by implementing Azure AD Connect for seamless on-premises to Entra ID synchronization.
- Deployed and fine-tuned Dynatrace OneAgent monitoring extensions across 50+ instances, including newly provisioned Azure Ubuntu virtual machines, to establish full-stack observability and proactive bottleneck alerting.
- Maintain an operational infrastructure uptime of **99% SLA** across on-premises hypervisors and Azure cloud environments.
- Implemented centralized infrastructure monitoring and observability using Azure Monitor, Log Analytics Workspace, and Dynatrace, improving operational visibility and reducing incident response time.
- Designed and implemented enterprise-grade **Infrastructure as Code (IaC)** using Terraform to provision Azure networking, compute, monitoring, and security resources through reusable modular architecture, improving deployment consistency and reducing manual configuration efforts.
- Developed and maintained **GitHub Actions CI/CD** pipelines to automate Terraform formatting, validation, planning, and controlled infrastructure deployments using Azure Service Principal authentication, GitHub Secrets, and production approval workflows.
- Implemented secure Azure Storage Remote Backend with Terraform state locking and centralized state management, enabling collaborative deployments while ensuring infrastructure consistency across Azure environments.
- Manage Azure Windows activities including configuring, scaling, and maintaining Azure Virtual Machines integrated with local Active Directory domain controllers.
- Formulated and managed **Disaster Recovery (DRP) testing**, successfully orchestrating automated cloud failovers for **20+ critical workload servers** from on-premises clusters to secondary cloud targets.
- Orchestrated OS lifecycle management, executing automated security patches, critical hotfixes, and software updates across the entire corporate hybrid server fleet.
- Recognized for high-level technical execution and enterprise compliance, achieving a top-tier Annual Evaluation rating of 8.90 for the Annual-26 cycle.

Azure Windows Administrator – Wintel, Azure & Virtualization Engineer

Dec 2023 – Dec 2024

HCLTech

Hybrid, India

Integrated GitHub Actions CI/CD workflows with Azure authentication using Service Principal credentials, GitHub Secrets, remote backend state management, and production approval gates for secure Infrastructure as Code deployments.

- Managed daily lifecycle operations for core on-premises virtualization infrastructure using **VMware ESXi and Hyper-V** hypervisors, handling provisioning, storage expansion, Cluster Configuration, Cluster Health Checks, Troubleshoot the failure through iDRAC, iLO and VM cloning.
- Spearheaded the end-to-end migration of 50+ on-premises legacy servers to Microsoft Azure utilizing the Azure Migrate appliance, managing initial replication, test failovers, and final production cutovers.
- Configured and managed enterprise Disaster Recovery solutions utilizing Azure Backup and Azure Site Recovery (ASR) to orchestrate replication, delta-syncing, and automated failover in alignment with strict RTO/RPO objectives.
- Resolved over **15+ critical high-priority technical incidents** involving storage disconnects, OS crashes, and host networking faults, successfully lowering overall infrastructure downtime by **85%**.
- Leveraged **ServiceNow (SNOW)** for robust ITIL standard change management compliance; wrote automated inventory gathering scripts across **200+ servers** for real-time asset alignment.

Projects & Independent Technical Initiatives

Enterprise Azure Landing Zone Automation using Terraform & GitHub Actions CI/CD

- Architected and implemented an enterprise Azure Landing Zone using reusable Terraform modules to provision Virtual Networks (VNETs), Subnets, Network Security Groups (NSGs), Azure Bastion, Virtual Machines, Log Analytics Workspace, and supporting Azure resources.
- Designed modular Infrastructure as Code (IaC) architecture by separating Root and Child modules, improving scalability, maintainability, code reuse, and deployment consistency.
- Configured Azure Blob Storage Remote Backend with Terraform state locking, enabling secure centralized infrastructure state management and collaborative deployments.
- Developed enterprise GitHub Actions CI/CD pipelines implementing Terraform fmt, validate, plan, manual approval, and apply stages using GitHub Secrets and Azure Service Principal authentication.
- Implemented enterprise DevOps practices including Git version control, Infrastructure as Code (IaC), GitHub Actions automation, secure secret management, deployment governance, and production approval workflows.

Containerized Web Application Deployment using Docker

- Containerized a Node.js web application using Docker, defining custom Dockerfiles and Docker Compose configurations to streamline image creation and deployment.
- Managed container lifecycle, port mapping, persistent storage, and image optimization to demonstrate practical containerization and infrastructure automation concepts.

Secure WireGuard VPN Implementation on Ubuntu

- Architected and deployed a high-speed WireGuard VPN server on an Ubuntu Linux environment to establish secure, encrypted remote access capabilities.
- Configured cryptographic public/private key pairs, enabled IP forwarding, and implemented strict Uncomplicated Firewall (UFW) rules to route and protect tunnel traffic from unauthorized access.

Certifications

Microsoft Certified Azure DevOps Expert AZ-400

Microsoft Certified Azure Administration AZ-104

Microsoft Certified Azure Fundamentals AZ-900

AWS Cloud Practitioner Certified

Microsoft Certified AI-900

ITIL V4 Certified

Education

DVR and Dr. HS MIC College of Technology

Bachelor of Technology (B.Tech) in Electronics and Communication Engineering (CGPA: 8.90/10)

Sri Chaitanya Junior College

Intermediate (12th Grade) (CGPA: 9.10/10)

June 2019 – May 2023

May 2017 – May 2019