

VENKATESH KESARBANDI

SENIOR AWS CLOUD ENGINEER

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SUMMARY

Senior AWS Cloud Engineer / Architect & 4x AWS Certified, Terraform Certified with over 19 years of IT experience specializing in **Infrastructure as Code (Terraform)**, **AWS architecture implementation**, and **cost optimization**, following the **AWS Well-Architected Framework**. Proven ability to translate **High-Level Designs (HLD)** and **Low-Level Designs (LLD)** into secure, scalable AWS environments. Adept in **infrastructure validation**, permissions management, and **knowledge transfer (KT)** to InfraOps teams. Strong collaborator with architects, application teams, and stakeholders to deliver high-performing cloud solutions.

CERTIFICATIONS

- AWS Certified Solutions Architect - Professional
- AWS Certified DevOps Engineer - Professional
- AWS Certified Solutions Architect - Associate
- AWS Certified Developer - Associate
- HashiCorp Certified: Terraform Associate

SKILLS

- **Cloud Platforms & AWS Services:** Amazon EC2, Amazon S3, Amazon RDS, Amazon VPC, AWS IAM, AWS Lambda, AWS CloudFormation, AWS CloudWatch, AWS CloudTrail, AWS Route 53, AWS Load Balancers (ALB, NLB), Auto Scaling, AWS SQS, AWS SNS, AWS Backup, AWS KMS, AWS EFS, AWS Secret Manager
- **Infrastructure as Code (IaC):** Terraform Modules, Terraform State Management, Automated Provisioning, Immutable Infrastructure
- **Automation & DevOps:** Git, GitLab, Terraform, Ansible, CI/CD Pipelines, Jenkins, Camunda, AWS Systems Manager, Cloud-Native Automation
- **Architecture & Governance:** AWS Well-Architected Framework, High-Level Design (HLD), Low-Level Design (LLD), Cloud Solution Design, Multi-Account AWS Setup, Landing Zone Implementation
- **Resilience & Operations:** Disaster Recovery (DR) Strategy, RTO/RPO Compliance, Monitoring and Observability, Incident Response Readiness, Cost Optimization Strategy, Infrastructure Validation
- **Leadership & Collaboration:** Technical Mentoring, Knowledge Transfer, Cross-Functional Team Leadership

PROFESSIONAL EXPERIENCE

Kyndryl (Prev. IBM) – AWS Cloud Architect

Dec 2016 - Present

- Developed an **AWS Infrastructure Build Billing Report** using **Python** and **Boto3** to automate monthly reporting of AWS resources provisioned across **100+ AWS accounts**, enabling accurate customer chargeback and reducing report preparation time by 95%.
- Created a **Move-to-Run automation script** in **Python** and **Boto3** to generate detailed reports of AWS resources (EC2, RDS, S3, etc.) by specified tag key and value pair, reducing compliance validation and handover prep time by **98%** (8-10 days to <10 minutes).
- Designed, built, and automated AWS infrastructure from High-Level and Low-Level Designs (HLD/LLD) using **Terraform Modules** and remote state management, enabling reusable multi-account deployments that reduced deployment time by 65% and minimized configuration drift by 90%.
- Provisioned and managed AWS services including EC2, S3, RDS, ElastiCache, VPC, IAM, Route 53, SQS, SNS, and Load Balancers (ALB/NLB), EFS, KMS, and Secret Manager for mission-critical workloads.
- Applied **AWS Well-Architected Framework** principles to improve reliability, security, performance efficiency, and cost optimization across multiple projects.
- Established observability and governance baselines with CloudWatch metrics/alerts, centralized logging, and CloudTrail auditing to enhance compliance and traceability.

- Implemented automated provisioning, onboarding, patching, and configuration management at scale using Ansible and AWS Systems Manager (SSM), reducing onboarding time by 75% and patching cycles by 40%.
- Delivered cost optimization strategies that reduced monthly cloud spend by **38% (\$220K annual savings)** through:
 - Performed EC2 rightsizing and scheduled shutdowns for non-production environments
 - Optimized Enhanced EC2 CloudWatch monitoring by restricting 1-minute intervals to production workloads, cutting monitoring costs for non-production environments
 - Leveraged AWS Compute Optimizer to identify underutilized resources and adjust instance types for optimal performance-to-cost ratio
 - Implemented S3 lifecycle policies and storage class optimization
- Collaborated with solution architects to validate infrastructure against design specifications, increasing deployment success rates by 25%.
- Mentored **15+ engineers** in Terraform and AWS best practices, achieving **100% AWS Associate-level certification** across the team within 8 months
- Conducted KT sessions with InfraOps teams to ensure smooth handover and operational readiness.

Hewlett Packard - Delivery Lead

Jan 2009 - Nov 2016

- Led infrastructure delivery and transition activities for multiple enterprise accounts, ensuring smooth onboarding and operational stability.
- Configured IAM roles and users, provisioned EC2 instances, and managed S3 storage as part of supporting client infrastructure in cloud environments.
- Automated daily reporting processes, saving **60+ manual hours monthly (\$18K annual savings)**.
- **Reduced incident resolution time by 30%** through problem management frameworks and root cause analysis.
- Successfully completed major account transitions, including **Bristol-Myers Squibb** (Mphasis Malaysia to HP India) and **Canadian Imperial Bank of Commerce**, achieving account stability and improved customer satisfaction.
- Recognized with multiple awards for leadership and account stabilization, including the **Outstanding Leadership Skill Award** for the Deutsche Bank account

Unisys Global Services India - Systems Engineer

Sep 2006 - Jan 2009

- Administered enterprise systems and managed **backup and disaster recovery (DR)** operations, ensuring compliance with **RTO/RPO objectives**.
- Diagnosed and resolved complex backup, recovery, and system performance issues, **reducing downtime incidents** and improving service availability.
- Automated routine system administration tasks using **shell scripting**, increasing operational efficiency by 30%

EDUCATION

Bachelor of Engineering (Computer Science)
M S Ramaiah Institute of Technology, Bangalore

2002 - 2006

PROJECTS & TEACHING

- **Udemy Instructor** (30,200+ students) - <https://www.udemy.com/user/venkatesh-k-13/>
 - *AWS Cloud Migration for Absolute Beginners with Demo* (4.6 ★)
 - *AWS VPC and VPC Peering Demo* (4.2 ★)
- **Open-Source Author** - *Terraform Beginners Guide* on GitHub (50+ stars, 40+ forks) - <https://github.com/venkateshk111/terraform-beginners-guide>
- **GitHub Portfolio:** venkateshk111.github.io