# VIGNESH SAMPATH

## GOOGLE CLOUD ENGINEER

**9790182304**          vikichan1014@gmail.com          **Gummidipoondi, Thiruvallur district**

## PROFESSIONAL SUMMARY

Google Cloud Certified professional with 2+ years of experience in Google Cloud Platform (GCP) operations, specializing in setting up Landing Zones, managing GCP infrastructure, and implementing security solutions. Proven expertise in leveraging GCP tools like Google Kubernetes Engine (GKE), Cloud Run, and VPC networks to drive efficiency in cloud environments. Strong background in infrastructure provisioning, security, and automation. Adept at designing and managing cloud architectures with a focus on scalability, security, and compliance. Certified as a Google Cloud Architect, Associate Cloud Engineer, and Cloud Security Specialist.

## SKILLS & EXPERTISE

- **Cloud Platforms:** Google Cloud Platform (GCP)
- **Infrastructure:** Terraform, Google Kubernetes Engine (GKE), Compute Engine, Cloud Run, Cloud Functions, VPC, Cloud Storage, IAM, Cloud Load Balancing
- **Security:** Identity and Access Management (IAM), Security Command Center, Firewall Management, VPC Security, Service Accounts, Encryption with KMS, Private Service Connect
- **Automation & DevOps:** Infrastructure as Code (IaC), Terraform, GitHub Actions, CI/CD Pipelines, Docker, Kubernetes
- **Networking:** VPC Design, Subnets, NAT Gateway, Cloud Routers, Shared VPC, Private Service Connect
- **Monitoring & Logging:** Stackdriver Monitoring, Cloud Logging, Cloud Trace, Cloud Audit Logs
- **Compliance:** Organizational Policy Implementation, Security Best Practices

## PROFESSIONAL EXPERIENCE

### Cloud Operations Engineer
**[Rappit.io]** | [**Coimbatore**] | [**18'Jan 2022**] – **Present**

- **Landing Zone Setup:** Spearheaded the design and implementation of GCP Landing Zones, enabling secure, scalable, and compliant multi-project environments for various business units.
- **Infrastructure Automation:** Created and managed Infrastructure-as-Code (IaC) using Terraform to provision GCP resources, including VPCs, subnets, GKE clusters, and Cloud Run instances.

- **GCP Operations**: Monitored and optimized performance of GCP services such as Compute Engine, Cloud SQL, AlloyDB, and VPC networking. Managed autoscaling clusters on GKE for high-availability workloads.
- **Project & Environment Management:** Provisioned and managed multiple environments (dev, test, prod) using shared VPC architecture and automated workflows in a multi-project GCP structure.
- **Networking Configuration:** Designed and implemented networking solutions including VPCs, subnets, and NAT gateways. Configured Private Service Connect for secure internal traffic routing.
- **DevOps Practices:** Developed CI/CD pipelines using GitHub Actions to automate deployment workflows, integrate secret management, and manage service accounts using Workload Identity Federation (WIF).
- **Security & Compliance**: Implemented advanced security features such as IAM roles, firewall rules, service accounts, and KMS for encryption, ensuring adherence to organizational security policies.

## SECURITY ENGINEER (GCP FOCUS)

- **Security Setup:** Led efforts in hardening GCP environments by configuring IAM policies, Cloud Audit Logs, and Security Command Center to provide real-time monitoring of security events.
- **Firewall & Access Controls:** Managed network firewall policies, designed VPC segmentation, and configured ingress and egress rules to secure GCP projects.
- **Key Management:** Deployed and managed centralized Key Management Service (KMS) for securing secrets, managing keys, and enforcing encryption policies across multiple GCP projects.

## PROJECTS & ACCOMPLISHMENTS

- **Multi-Environment Landing Zone:** Designed and implemented a highly scalable Landing Zone in GCP that hosts multiple projects with shared VPC architecture, improving operational efficiency and security.
- **Secure Key Management System:** Established a centralized KMS solution for managing encryption keys across multiple GCP projects, enhancing data security for sensitive applications.

## TECHNICAL TOOLS

- **Cloud Technologies:** GCP (Cloud Run, Compute Engine, GKE, VPC)
- **Automation:** Terraform, GitHub Actions, Docker, Kubernetes
- **Security:** IAM, KMS, VPC Security, Cloud Security Command Center
- **Networking:** VPC, Subnets, Firewalls, NAT Gateways, Private Service Connect

## CERTIFICATIONS

- **GOOGLE CLOUD ASSOCIATE CLOUD ENGINEER [02-05-2023]**

- **GOOGLE CLOUD PROFESSIONAL CLOUD SECURITY ENGINEER [30-10-2023]**

- **GOOGLE CLOUD PROFESSIONAL CLOUD ARCHITECT [25-01-2023]**

## PERSONAL PROJECTS

- **FortiGate in GCP:** Deployed and configured FortiGate VM in GCP to manage traffic, monitor network activity, and implement advanced firewall rules.

## EDUCATION

### BACHELOR OF ENGINEERING

*TJS ENGINEERING COLLEGE*
*[AUG 2016 - APR 2020]*

### LANGUAGES KNOWN

- **TAMIL**
- **ENGLISH**
- **HINDI (READ & WRITE)**