



VIGNESH K

Lead DevOps Engineer

+91 9941478898 @ Shakhivignesh94@gmail.com www.linkedin.com/in/vignesh-k-883b86b8 Chennai - 79

+91 9840344457

CERTIFICATION

Professional Cloud DevOps Engineer Certification

Issued by Google Cloud

SUMMARY

Experienced and impact-driven **Lead DevOps Engineer** with over **8 years of hands-on expertise** architecting, automating, and optimizing large-scale cloud infrastructure across **AWS and GCP environments**. Trusted for building secure, scalable systems from the ground up – and leading critical DevOps initiatives that power high-availability applications in production.

Over a focused 3-year span, independently **designed and matured an entire DevOps stack from scratch**, reaching full operational stability with automated scaling, cost control, and zero-downtime deployments.

Mastery across a vast suite of AWS services, including:

- **Compute & Containers:** EC2, EKS (multi-arch), ECS, Lambda, ECR
- **Security & Networking:** VPC, Subnets, Security Groups, WAF (Bot Control), centralized Web ACLs, GuardDuty, ACM, IAM, fail2ban, auditd
- **Storage & Databases:** S3, EBS, EFS, RDS (Aurora MySQL), DynamoDB, Redis
- **Monitoring & Automation:** CloudWatch (Logs, Insights, Flow Logs), WAF Logging, CloudTrail, Datadog, Auto Scaling, HPA, Karpenter
- **Streaming & Analytics:** Kinesis (Streams & Firehose), Glue, Athena, SES, SNS, API Gateway
- **CI/CD & DevOps Stack:** Jenkins (Shared Libraries), Terraform, Helm, Docker, Kubernetes, SonarCloud, Python

Built scalable multi-architecture EKS clusters (x86 & ARM), utilizing **node selectors, taints, and tolerations** for optimized pod placement. Enabled **dynamic workload scaling with HPA** and **node-level scaling via Karpenter**, ensuring resource efficiency under peak and idle loads.

Hands-on in observability, vendor licensing, security hardening, and cost optimization – maintaining platform maturity while anticipating the next scaling threshold.

KEY ACHIEVEMENTS



Took the platform from scratch to fully mature in under 3 years

clean deployments, stable environments, minimal support overhead. Hit the ceiling of complexity and efficiency.



DevOps Stack Maturity and Optimization

Matured a comprehensive DevOps stack from scratch, achieved operational stability, and optimized infrastructure for resource efficiency



Established Infrastructure as Code (IaC) from day one using Terraform

ensuring every resource was codified, version-controlled, and deployed through automation, eliminating manual provisioning and configuration drift.



Lowered Cloud Expenses

Reduced cloud costs by 25% through strategic audits and tool optimizations.

KEY ACHIEVEMENTS



Migrated Jenkins server across EKS clusters with zero data loss

preserving credentials, pipeline configs, and plugins while ensuring seamless continuity for ongoing builds and deployments.



Improved Pipeline Performance

Enhanced build speed by 40% by optimizing Jenkins pipelines.

SKILLS

AWS, Jenkins, Terraform, Kubernetes, Helm, Docker, Bitbucket, EKS, ECS, Auto Scaling, Datadog, APM, Lambda, S3, API Gateway, Kinesis, CloudWatch, CloudTrail, Athena, DNS, CloudFront, WAF, Inspector, EC2, FTP, LAMP, WORDPRESS, Mysql, Python, SES, RDS, CloudFormation, ELB, Bash, Ubuntu, Billing optimization, DynamoDB, CI/CD, IAM, Multibranch Pipeline, IAAC, ECR, Route53, Container Insights, Multi-Cloud, Sonarcloud

Cloud Platforms:

AWS, GCP

Monitoring & Logs:

Datadog, CloudWatch, Container Insights, CloudTrail

Security:

IAM, WAF, GuardDuty, auditd, fail2ban, Inspector

Containers & Orchestration: Docker, Kubernetes (EKS), ECS, Fargate

Networking:

Route53, ALB, NLB, VPC, Subnets, Security Groups

CI/CD:

Jenkins (Multibranch, Shared Libs), Bitbucket, Git

Infra as Code:

Terraform, Helm

Databases & Streams:

Aurora (MySQL), DynamoDB, Redis, Kinesis, Athena, Glue

Scripting:

Python, Bash

Web & OS:

Apache2, Nginx, LAMP, Ubuntu, Amazon Linux

SKILLS

Tools & Misc:

SonarCloud, FTP, SES, API Gateway, CloudFront, Notepad++, VS Code

EXPERIENCE

12/2021 - Present

(REMOTE)Dubai, United Arab Emirates

• Lead DevOps Engineer

Datashash

Datashash is a next-gen, server-side data platform delivering privacy-first integrations across the marketing, analytics, and commerce stack

- Designed and deployed the entire AWS infrastructure from scratch using Terraform – covering networking (VPCs, subnets, security groups), compute (ECS, EKS, Lambda), storage (S3, EBS, EFS), and databases (RDS Aurora, DynamoDB, Redis), all fully automated and version-controlled.
- **Deployed & Managed 45+ Lambda connectors per environment** – containerized, integrated with 3rd-party tools (Oracle, BigQuery, ZohoCRM, TikTok, Meta CAPI, Google CAPI, Snap, Twitter), deployed and monitored with zero margin for runtime failures.
- **Built a centralized Jenkins Shared Library** to reuse pipeline logic and environment variables – saving time, reducing duplication, and maintaining consistency across all projects.
- **Optimized multibranch Jenkins pipelines** by simplifying branching logic, introducing caching, and eliminating redundant steps – significantly improving build performance and reducing execution time.
- **Migrated Jenkins server across EKS clusters** with zero data loss – preserving credentials, pipeline configs, and plugins while ensuring seamless continuity for ongoing builds and deployments.
- **Implemented IAM switch-role access across AWS accounts**, enabling seamless cross-account operations for all users using a single credential – simplifying access control and improving audit visibility.
- **Secured web servers with firewall rules, conditional IP allowlists, and audit-based logging**, along with fail2ban to block brute-force login attempts and ensure tight access to admin panels.
- **Enabled AWS WAF (ACLs and Bot Control)** for all internet-facing ALBs and web servers – protecting endpoints from malicious traffic, bots, and OWASP Top 10 threats.
- **Configured web servers behind CloudFront CDN with WAF applied at the edge**, ensuring low-latency content delivery and proactive request filtering before traffic reaches the origin server.
- **Applied a centralized Web ACL to multiple internet-facing ALBs and Application Gateways** under the same application domain – streamlining rule management and ensuring consistent security policies across entry points.
- **Established Infrastructure as Code (IaC) from day one** using Terraform – ensuring every resource was codified, version-controlled, and deployed through automation, eliminating manual provisioning and configuration drift.
- **Integrated Datadog and AWS CloudWatch** for full-stack monitoring and logging – visualizing ECS, Lambda, EC2, and network traffic in real time, with actionable alerting and dashboards
- **Conducted regular DevOps R&D and PoC efforts**, evaluating new tools, patterns, and cloud-native services to optimize workflows, reduce cost, and improve system design.
- **Integrated SonarCloud into Jenkins pipelines** to enforce static code analysis, automatically detecting vulnerabilities, bugs, and code smells – improving code quality and release confidence.
- **Conducted regular billing audits across environments**, identifying unused or underutilized resources and cleaning them up – reducing unnecessary spend and keeping infrastructure lean.
- **Worked closely with sales and procurement teams to negotiate licenses** for **Datadog and SonarCloud**, analyzing usage trends and securing cost-effective plans that aligned with team and environment needs.

EXPERIENCE

12/2020 - 12/2021

Chennai, India

Senior Cloud Engineer

Contus

Cloud service provider offering various development services

- Worked on AWS EC2, IAM, S3, LoadBalancers, Opensearch, EKS, ECR, VPC, RDS, Route53.
- Worked On Azure Services like Virtual Machine, Active Directory ,VPN, AKS, LoadBalancer, Database For Mysql, DNS .
- Worked On LAMP created Virtual host on Apache2 and PhpMyadmin
- Analyse the Client Requirement and Provide them Solution and Estimation for the Setup on Cloud.
- Ensure Backup of data by periodic snapshot the volume using lifecycle management.
- Handled a Team of 5 Cloud Engineers Assinged them Task Based on the Priority and evaluate the task after Completion
- Implemented DevOps in our Project with Jenkins,Bitbucket,Docker,SonarQuebe and Kubernetes .
Automated infrastructure setup with Terraform For our Production Setup .
Reviewing Clients Billing On Monthly bases and provide them insights to maintain the Bill on Average
Deployed Our Project as Micro-services in Cloud Environments using EKS,AKS,OKE and KOPS
- Worked On LAMP created Virtual host on Apache2 and worked on Phpmyadmin
Configured Letsencrypt ssl for staging setup
- Configured HPA for effective autoscaling of Pods based on the cpu utilization and Cluster autoscaler on EKS Cluster

05/2019 - 10/2020

Chennai, India

AWS Cloud & DevOps Engineer

Sundirect TV Pvt Ltd

Company providing television services with cloud infrastructure

- Worked on AWS EC2, IAM, S3, Elastic Load Balancer, and Auto Scaling
- Implemented continuous integration practices using Jenkins
- Created IAM policies for delegated administration
- Built and deployed various Ansible playbooks
- Managed build results in Jenkins and deployed using workflows

01/2017 - 05/2019

Chennai, India

Software Engineer

Proloon Infotech

Software company specializing in application development

- Built Customized Amazon Machine Images (AMIs) and deployed them
- Used Jenkins for automating pipelines
- Established a streamlined release process for the development team
- Automated deployment to Apache Tomcat Application Servers

EDUCATION

06/2012 - 03/2016

Gummidipoondi

B.E. Mechanical Engineering

RMK Engineering College

LANGUAGES

English
Proficient



Tamil
Native

