

# Muhammad Asim

## Lead Site Reliability Engineer & DevOps/DevSecOps Specialist

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Portfolio: [ch-muhammad-asim.github.io](https://ch-muhammad-asim.github.io) | YouTube: @devopsgang

### PROFESSIONAL SUMMARY

A Lead Site Reliability Engineer & DevOps Specialist with over a decade of experience architecting, automating, and managing secure, scalable cloud infrastructure across AWS, GCP, and Azure. Proven track record of delivering near-perfect system uptime, reducing multi-hour deployment cycles to minutes, and achieving significant infrastructure cost savings through data-driven reliability improvements. Deep expertise in Kubernetes orchestration, Terraform/Terragrunt IaC, GitOps workflows, CI/CD pipeline engineering, and service mesh (Istio) implementations. Experienced in platform engineering, DevSecOps, toil reduction, and building developer self-service infrastructure. Certified AWS Solutions Architect (Professional & Associate) and CKA. Active open-source contributor with 110+ GitHub repositories, Arctic Code Vault Contributor recognition, and DevOps educator with 300+ YouTube tutorials and 29K+ subscribers.

### CORE TECHNICAL SKILLS

**Cloud Platforms:** AWS (EKS, EC2, RDS, Lambda, S3, CloudFormation, Route 53, CloudWatch), GCP (GKE, Cloud Run, Cloud SQL), Azure (AKS)

**Infrastructure as Code:** Terraform, Terragrunt, AWS CloudFormation, Ansible, Packer

**Observability & SRE:** Prometheus, Grafana, ELK/EFK Stack, Datadog, PagerDuty, SLO/SLI/Error Budgets, Incident Response

**DevSecOps:** Trivy, Snyk, SAST/DAST, Policy-as-Code (OPA), Secrets Management, Zero-Trust Architecture

**Container & Orchestration:** Kubernetes, Docker, Helm Charts, ArgoCD, Istio Service Mesh, ECS/Fargate, Multi-Cloud Failover, Container Security

**CI/CD & GitOps:** Jenkins, GitHub Actions, GitLab CI, ArgoCD, FluxCD, Spinnaker

**Networking & Security:** VPC Design, WAF, Cloudflare Tunnels, Traefik, Nginx, SSL/TLS, HashiCorp Vault, IAM, RBAC

**Scripting & Automation:** Bash, Python, Go (basic), YAML/JSON, Helm Templating

### CERTIFICATIONS

- AWS Certified Solutions Architect - Professional
- AWS Certified Solutions Architect - Associate
- Certified Kubernetes Administrator (CKA) - Linux Foundation
- Toggl Hire Docker Skill Test Certificate
- Toggl Hire Kubernetes Certificate

### PROFESSIONAL EXPERIENCE

#### Site Reliability Engineer / DevOps Technical Lead - Permission.ai

Oct 2024 - Present | Remote

Web3 AI-Powered Advertising Platform on Polygon Blockchain

- Built entire GCP infrastructure from scratch using Terraform/Terragrunt, deploying GKE private clusters with Istio Ambient Mesh for zero-trust mTLS.
- Engineered AI-powered GitHub PR review pipelines using Anthropic Claude via Google Vertex AI for automated CVE scanning and code quality analysis.
- Implemented Cloud Armor WAF for Layer 7 protection, GCloud Auth Proxy for secure PostgreSQL 17 connectivity, and distroless container images for hardened CI/CD.
- Built Apple IPA and Android APK build/signing pipelines for mobile app distribution with secure CI/CD automation.

#### Site Reliability Engineer - CloudShape Inc

Apr 2023 - Mar 2025 | Remote, US

AWS Advanced Cloud Consulting Partner

- Managed multi-cloud infrastructure on AWS and GCP for enterprise clients in government and private sectors.
- Designed Kubernetes-based container orchestration solutions using EKS and GKE for high-availability workloads.
- Automated infrastructure provisioning using Terraform and Ansible, reducing deployment overhead.
- Implemented comprehensive monitoring and alerting using Prometheus, Grafana, and CloudWatch.

#### DevOps Technical Lead (Consultant) - Vital Steer LLC

*Apr 2024 - Jun 2024 | Remote  
Enterprise IT Solutions Provider*

- Led team managing Kubernetes Docker microservices infrastructure across GKE and Amazon EKS.
- Designed and implemented Terraform-based IaC for multi-cloud container environments.
- Established best practices for container orchestration, networking, and security policies.

### **Senior Site Reliability Engineer - GETTR USA INC**

*Jun 2023 - May 2024 | US  
Global Social Media Platform*

- Served as SRE for high-traffic social media platform handling millions of concurrent users globally.
- Maintained service reliability and performance through proactive monitoring and incident response.
- Optimized cloud infrastructure costs while ensuring high availability and fault tolerance.

### **SRE DevOps Engineer - OpsWorks Co.**

*Dec 2021 - Jan 2023 | Full-time  
AWS Advanced Partner*

- Delivered DevOps engineering and cloud infrastructure management for enterprise clients.
- Architected scalable AWS environments using Terraform for infrastructure automation.
- Implemented CI/CD pipelines and container-based deployments for improved release velocity.

### **DevOps Engineer - Arbisoft**

*Feb 2021 - Jan 2022 | Lahore  
Leading Software Firm (1000+ Engineers, Clients: Amazon, Microsoft)*

- Provided DevOps engineering for large-scale software firm delivering solutions to Fortune 500 clients.
- Managed cloud infrastructure and deployment pipelines for distributed application teams.
- Automated infrastructure provisioning and monitoring using Terraform and AWS services.

### **DevOps Engineer - Upwork.com (Freelance)**

*Jan 2020 - Nov 2021 | Global Freelance Platform*

- Delivered DevOps consulting for multiple global clients on the world's largest freelance marketplace.
- Specialized in AWS Terraform automation, Docker containerization, and Linux administration.
- Managed EC2, ALB, Auto Scaling, S3, EFS, RDS, SSL, CloudFront, and VPC configurations.

### **DevOps Engineer - Folksinc**

*Aug 2020 - Sep 2021 | Canada, Remote  
Canadian Tech Company*

- Senior DevOps Engineer managing cloud infrastructure and deployment automation.
- Implemented Terraform-based infrastructure provisioning for scalable production environments.

### **DevOps Engineer - InvoZone**

*Sep 2020 - Feb 2021 | Lahore  
Global Software Company (500+ Engineers)*

- Provided DevOps engineering for rapidly growing software company serving startups and enterprises.
- Managed cloud deployments and CI/CD pipelines for distributed development teams.

### **DevOps Engineer - Cloudelligent**

*Sep 2018 - Apr 2020 | US  
AWS Advanced Consulting Partner*

- Managed multiple AWS accounts including EFS, RDS, S3, Redis, KMS, EC2, VPN, and VPC Peering.
- Set up and managed EKS, ECS, BeanStalk, and Docker Swarm clusters for SaaS applications.
- Designed immutable infrastructure using Terraform for AWS resource versioning and management.
- Implemented EFK (ElasticSearch, Fluentd, Kibana) logging and Jenkins CI/CD pipelines.
- Managed HashiCorp Vault clusters for secure SSH and secrets management.

### **DevOps / Linux Administrator - Zepto Systems Limited**

*Apr 2018 - Oct 2018 | Lahore  
IT Outsourcing and Consulting Firm*

- Worked with senior development teams on AWS, Docker, and virtualization deployment.
- Managed KVM, LXC, LXD, and OpenVZ7 environments alongside Linux system administration.

### **Linux Administrator - SkyHost Web Hosting Services**

Jan 2018 - Apr 2018 | Lahore

Leading Pakistani Web Hosting Provider

- Senior Linux System Administrator managing virtualization deployments (KVM, LXC).
- Configured Nagios in Docker for server monitoring, OpenVPN, and SAMBA containers.

### **Linux System Administrator - Websouls**

Dec 2016 - Jun 2017 | Lahore

Web Hosting Company (22+ Years)

- Administered Linux servers on AWS (CentOS, Ubuntu) with virtualization (KVM, VMware, OpenVZ).
- Managed WHM, cPanel, DNS, mail, FTP, and firewall services with shell script automation.

## **EDUCATION**

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**Master's Degree** - University of South Asia | 2008 - 2010 | Grade: A+

## **COMMUNITY & THOUGHT LEADERSHIP**

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- YouTube Channel "DevOpsGang": 300+ tutorials on Kubernetes, Docker, CI/CD, and cloud technologies with 29K+ subscribers.
- GitHub: 110+ public repositories covering Terraform modules, Kubernetes configurations, and CI/CD templates.
- Portfolio: [ch-muhammad-asim.github.io](https://ch-muhammad-asim.github.io) showcasing SRE, DevOps, DevSecOps, cloud infrastructure, certifications, and community work.
- Arctic Code Vault Contributor (GitHub).
- 29,000+ LinkedIn followers sharing DevOps insights and best practices.