

# AMARESH MOHAPATRA

Azure Solutions Architect Expert, GCP Cloud Architect Professional, GCP Cloud DevOps Engineer Professional

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Senior Platform Engineer with 8+ years of experience designing and operating cloud-native platforms across Azure, GCP, and AWS. Proven track record in building secure, scalable Kubernetes platforms, enabling GitOps, DevSecOps, and SRE practices for multi-tenant environments. Experienced in platform modernization, observability, cloud security governance, and cost optimization, with strong ownership of reliability, automation, and architectural standards. Certified Azure & GCP Architect, known for translating business needs into resilient platform solutions.

## Core Skills

### Cloud Architecture & Multi-Cloud Platforms

Design and operation of large-scale cloud platforms across **Azure, Google Cloud, and AWS**, including hybrid and multi-cloud connectivity, secure landing zones, global traffic management, high availability, disaster recovery, and performance optimization.

### Platform Engineering & Kubernetes

Platform-as-a-Product on **AKS, GKE, and EKS**, multi-tenant cluster design, namespace isolation, internal developer platforms (IDP), golden paths, GitOps workflows (Argo CD), Helm-based application delivery, and standardized platform onboarding.

### Infrastructure as Code & Automation

Infrastructure automation using **Terraform** (reusable modules, environment standardization, drift control), GitOps-driven workflows, CI/CD automation, policy-as-code, and cloud-native automation for platform operations and remediation.

### DevSecOps & Cloud Security Engineering

End-to-end DevSecOps practices including cloud security governance, secure landing zones, policy enforcement (**OPA/Gatekeeper, Azure Policy**), container and IaC security scanning (**Trivy, Checkov**), secrets management, workload identity, IAM/RBAC, and alignment with enterprise security standards.

### Reliability Engineering & SRE Practices

Design and implementation of reliability frameworks including **SLI/SLO**, alerting strategies, incident response, runbooks, post-incident analysis, capacity planning, and operational excellence for production platforms.

## Observability & Telemetry

End-to-end observability using **OpenTelemetry**, metrics, logs, and traces with **Prometheus, Grafana, Datadog, New Relic**, synthetic monitoring, SLO dashboards, alert routing, and MTTR optimization.

## Networking, Edge & Service Mesh

Cloud and container networking including ingress/egress control, WAF, CDN, global edge routing, service mesh architectures (**Istio, mTLS, traffic management**), and zero-trust networking principles.

## Identity, Access & Governance

Enterprise identity and access management across cloud and SaaS platforms, including **Microsoft Entra ID, cloud IAM**, federation (OIDC/SAML), conditional access, entitlement governance, and access reviews.

## Systems, Virtualization & Scripting

Linux and Windows systems administration, **VMware ESXi**, container-optimized workloads, and automation using **Python, Bash, and PowerShell** for platform tooling and remediation workflows.

# Experience

## Senior Cloud DevOps Engineer

Carl Zeiss | May 2024 - Present

- Led the design and implementation of a **multi-tenant Azure platform** supporting multiple business units, enabling standardized onboarding and secure workload isolation.
- Defined and enforced **platform architecture standards** covering networking, security, observability, and CI/CD integrations.
- Implemented **GitOps-driven infrastructure and application delivery** using Terraform and Argo CD, improving deployment reliability and auditability.
- Established **end-to-end observability** with Azure Managed Prometheus, OpenTelemetry, Grafana, and Container Insights, significantly improving operational visibility and MTTR.
- Strengthened edge and application security through **Azure Front Door, Application Gateway, WAF, CDN, and DDoS protection**, aligning with enterprise security policies.
- Acted as **technical decision owner**, collaborating with architects, security teams, and application stakeholders to balance reliability, cost, and performance.

## Engineering Lead

Persistent Systems Limited | July 2022 - May 2024

- Designed and delivered **cloud-native platforms** on AKS and GKE for multiple enterprise clients, supporting production-grade workloads.
- Led **application and data migrations** from on-premises and between cloud providers, ensuring minimal downtime and secure cutovers.

- Established **DevSecOps practices** including IaC scanning, container security, CI/CD hardening, and cloud governance controls.
- Implemented **observability platforms** using Prometheus, Grafana, Datadog, New Relic, uptime monitoring, alerting, tracing, and profiling.
- Introduced **service mesh (Istio)** for traffic management, security (mTLS), and enhanced service-level observability.
- Built and maintained **CI/CD pipelines** using GitHub Actions, Jenkins, Spinnaker, and GitLab CI.
- Provided technical leadership to teams, performing architecture reviews, mentoring engineers, and acting as an escalation point for platform issues.

## Cloud Engineer

Betsol LLC | June 2021 - July 2022

- Owned and operated **multi-cloud infrastructure (Azure, AWS, GCP)** along with an on-premises lab environment (~200 VMs across ESXi hosts).
- Managed production **AKS and GKE clusters**, including upgrades, scaling, backup, and disaster recovery.
- Implemented organization-wide **DevSecOps practices**, improving security posture and deployment consistency.
- Conducted **IAM, cost, and resource audits**, introducing tagging standards and cost-optimization recommendations.
- Managed observability platforms (Datadog) and production server lifecycle, including vulnerability management and access controls.
- Supported compliance and AWS Marketplace readiness through **AWS FTR reviews and QuickStart documentation**.

## Cloud Engineer

Crayon India | Jan 2020 - June 2021

- Delivered **cloud modernization projects** for enterprise customers involving Microsoft Azure and Microsoft 365.
- Performed readiness assessments, migration planning, and **cost estimation** for cloud adoption programs.
- Implemented Azure and M365 solutions with a focus on **security, identity, and governance**.
- Acted as a **technical SPOC for customers**, coordinating with stakeholders, sales, and delivery teams.
- Authored **BOMs, SOPs, project plans, and sign-off documents**, ensuring structured delivery and customer satisfaction.

## Technical Specialist

Softline (Noventiq) | Aug 2017 - Jan 2020

- Executed large-scale **Office 365 and Microsoft 365 migrations** from Google Workspace, Exchange, and IMAP systems.
- Migrated applications and servers from on-premises data centers to **Microsoft Azure**.
- Designed and implemented **identity, security, and enterprise mobility solutions** for customers.

- Secured Azure and Microsoft 365 environments in alignment with customer and compliance requirements.

## Certifications

- Microsoft Certified: Azure Solutions Architect Expert
- Google Cloud Certified: Professional Cloud Architect
- Google Cloud Certified: Professional DevOps Engineer
- Microsoft Certified: Microsoft 365 Enterprise Administrator Expert

## Education

Bachelor of Technology (B.Tech) – Computer Science & Engineering  
Biju Patnaik University of Technology (BPUT), Rourkela | 2012 – 2016  
CGPA: 7.5 / 10

## Languages

- English (Fluent)
  - Hindi (Fluent)
  - Odia (Native)
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