

SUMMARY

I am a Cloud & DevOps Engineer who enjoys building reliable, secure, and automated infrastructure that just works at scale. With hands on experience in GCP and AWS, I specialize in using Terraform and Ansible to simplify complex deployments and ensure infrastructure stays consistent across environments. I take pride in crafting efficient CI/CD pipelines and integrating monitoring systems like Prometheus, Grafana, and Stackdriver to maintain visibility and prevent downtime. Whether it's managing 300+ edge devices, optimizing cloud cost, or hardening systems for security audits, I approach each challenge with a problem solving mindset and a passion for continuous improvement. I thrive in environments where collaboration, automation, and clarity matter. My goal is always to bridge development and operations with well designed systems that empower teams to move faster without compromising stability or security.

SKILLS & TECH STACK

- **Languages** : Python, Shell Script, C
- **Cloud** : AWS Cloud, GCP Cloud, Alibaba Cloud, Huawei Cloud
- **Cloud Services** : VPC, Cloud SQL, Cloud Build, Cloud Run, Cloud Function, Load Balancer, IAM, Cloud Armor, Cloud Networking, Workflows, Billing, Pub/Sub, Lambda, Cloud Build, S3, GCS, etc
- **Tools** : Ansible, Terraform, Packer, Docker, Kubernetes, Git, Helm, Sonarqube, Airflow
- **CI / CD Tools** : Gitlab CI/CD, Cloud Build, Github Action, Nexus
- **OS** : Ubuntu, Debian, CentOS (CLI, Cronjob, IPTables, Hardening)
- **Virtualization** : Proxmox, KVM, LXC
- **Infrastructure** : Mikrotik, Routing, Firewall, VPN, Proxy, User & Bandwidth Management
- **Database** : MongoDB, PostgreSQL, MySQL
- **Monitoring** : GCP Stackdriver, Prometheus, Grafana, Portainer, Syslog, Rsyslog
- **Security** : IAM Best Practices, Secrets Management (Vault, AWS / GCP Secrets)
- **Documentation** : Draw.IO, Markdown
- **Project Tools** : Jira, Confluence, GitLab, Redmine
- **Soft Skills** : Incident Response, RCA, Agile

WORK EXPERIENCE

Cloud & Devops Engineer

PT Sinarmas Mining | Jul 2023 - Present

- Implemented Infrastructure as Code (IaC) using Terraform and Ansible to automate and manage cloud infrastructure across Google Cloud Platform (GCP) and Amazon Web Services (AWS).
- Designed and maintained infrastructure and application level monitoring and alerting using GCP Stackdriver, ensuring high availability, service visibility, and rapid incident response.
- Led security hardening efforts, including IAM policy audits and enforcement of least privilege access, significantly improving the cloud security posture and reducing vulnerabilities.
- Performed 24/7 infrastructure monitoring, on call incident response, and root cause analysis, with findings documented in structured Post Mortem Reports for continuous improvement.
- Designed and implemented CI/CD pipelines using GCP Cloud Build, enabling automated deployment workflows and reducing manual errors across environments.
- Supported ISO 27001 compliance initiatives using Scrut.io, ensuring all systems and configurations aligned with industry security standards.
- Authored and maintained comprehensive Documentation (DRD) for cloud architecture, tooling, and service integrations.
- Conducted thorough cost analysis and optimization on GCP billing, achieving up to 40% savings through resource rightsizing, auto scaling, and decommissioning unused assets.
- Managed migration and restructuring of staging and production workloads on GCP to improve performance, scalability, and maintainability.
- Maintained and updated container images, system packages, and infrastructure tools, implementing automated version control, cleanup, and rotation based on retention policies.
- Enforced consistent resource tagging and labeling strategies across environments to support automation, ownership tracking, and cost management.
- Collaborated cross functionally to provision secure access credentials, rotate API keys and service accounts, and manage container registries for versioned image delivery.
- Participated in architecture reviews and provided recommendations for scalable, secure, and cost efficient infrastructure design.

Sr. System Engineer

PT ImmoBi Solusi Prima | Jan 2021 - Jul 2023

- Developed Python based monitoring tools to collect Speedtest, Pingtest, Traceroute, API Test, and Videostream Test data across multiple networks.
- Deployed and configured Edge Raspberry Pi devices to gather field data and integrate with centralized cloud servers.
- Architected and implemented cloud edge infrastructure using AWS and GCP, enabling seamless data flow between edge devices and cloud instances.
- Built automation workflows using Ansible for managing and updating configuration across Edge and EC2 instances.
- Provisioned and managed cloud resources with Terraform, including EC2, VPCs, and security configurations.
- Created EBS images using Packer HashiCorp to support consistent deployment across environments.
- Containerized services using Docker and deployed monitoring solutions on Kubernetes (EKS) with Kibana dashboards to observe resource health and system status.
- Designed and implemented a monitoring system for Docker containers on Edge Probes, ensuring realtime visibility and operational continuity.
- Integrated CI/CD pipelines with GitLab for deploying and updating configurations across distributed environments.
- Implemented secure cloud and edge configurations by applying system hardening, firewall rules, and identity access controls.
- Addressed and resolved vulnerability assessment (VA) and penetration test (pentest) findings to enhance infrastructure security.
- Designed data pipelines for periodic ingestion from edge to cloud and automated database insertion workflows.

- Produced architecture diagrams and documentation for data flow, infrastructure design, and integration strategies across Telkomsel, Telkom Indonesia, and KOMINFO.

IoT & System Engineer

PT Vascomm Solusi Teknologi | Sep 2019 - Okt 2020

- Conducted research and prototyping of IoT based smart home solutions, focusing on energy monitoring and device control systems.
- Designed and developed the Nalaj Smartplug product using ESP12e, integrating MQTT, SocketIO, and REST APIs for energy usage monitoring and remote control, accessible via mobile and web (Sitamoto platform).
- Engineered Hedeg Smartplug, a multi channel energy control system using Raspberry Pi, capable of managing and monitoring 10 devices simultaneously via MQTT, SocketIO, and APIs.
- Developed a smoke detection system using ESP12e, with realtime alarm notifications and full integration into Sitamoto mobile/web applications.
- Implemented security measures for Hedeg Smartplug including firewall configuration and OS hardening to ensure safe IoT operation within local networks.
- Collaborated with firmware, mobile, and backend teams to ensure seamless integration between embedded hardware, cloud services, and frontend interfaces.

PROJECT EXPERIENCE

NetEye Monitoring

Self Project | 2024 - 2025

- Designed and developed NetEye, a custom network monitoring system for ISP to track end user internet speed, latency, and stability.
- Deployed over 300 Raspberry Pi devices as edge probes at client sites to run periodic tests and collect realtime network performance metrics.
- Build script to process and visualize metrics using Prometheus and Grafana, with alerting for anomalies and degraded performance.
- Implemented CI/CD via GitHub to streamline deployment, configuration, and updates across hundreds of distributed devices.
- Enabled network monitoring and improved visibility for ISP operations through centralized observability and automation.

Build Infrastructure Services

PT Nindya Karya | 2024

- Designed and provisioned a production site GCP infrastructure with Terraform, using modular code to spin up Cloud SQL, Compute Engine, Cloud Run, Load Balancer, and Cloud Armor resources.
- Automated post deployment VM tasks with Ansible (package installs, OS hardening, environment setup, firewall rules).
- Implemented a hybrid architecture Cloud Run for stateless containers and Compute Engine for stateful / legacy services fronted by a global HTTPs Load Balancer with Cloud Armor DDoS protection, IP filtering, and geo restrictions.
- Build a CI/CD pipeline in Cloud Build to deploy from Git repos directly to Cloud Run, enabling zero touch releases.
- Enforced least-privilege IAM roles and service accounts to secure inter service communication and maintain compliance.

Rebuild & Managing Infrastructure Services

PT Orbitech Solutions | 2025

- Managed and optimized existing GCP infrastructure to enhance security, clarity, and maintainability.
- Defined infrastructure as code by importing existing resources into Terraform, improving version control and scalability.
- Audited and adjusted IAM roles and permissions to enforce least privilege and reduce security exposure.
- Identified cost inefficiencies, proposed optimizations, and reduced billing through resource cleanup and rightsizing.
- Provided support and troubleshooting for production workloads on Compute Engine and Cloud Run, ensuring system reliability.

TRAINING & CERTIFICATIONS

Basic Penetration Testing and Ethical Hacking (Talenta Indonesia)	February 2022
Google Cloud basics (Dicoding Indonesia) Certificate	June 2022
Cloud Practitioner Essentials AWS (Dicoding Indonesia) Certificate	July 2022
Become a Google Cloud Engineer (Dicoding Indonesia) Certificate	July 2022
RedHat Systems Administrator (IDN.ID Indonesia)	August 2022
AWS Re/Start Graduate Certificate	July 2023
Huawei Developer Associate Certified - HCCDA Tech Essentials (Huawei Cloud) Certificate	December 2023
AWS Educate Getting Started with Cloud Ops Certificate	March 2025
Google IT Support (Coursera) Certificate	June 2025
AWS Cloud Solution Architect (Coursera) Certificate	June 2025
Cloud-Native Development with OpenShift and Kubernetes (Coursera) Certificate	June 2025

EDUCATIONS

State Polytechnic of Jember	June 2015 - September 2018
Diploma III Computer Engineering - GPA 3.43	

LANGUAGES

Bahasa Indonesia	Native
English	Professional Working

AWARDS & PUBLICATIONS

Netsight Benchmark Monitoring Details	2022
Teleoperation System for v-Based Sterilization Robot Details	2020
2nd Place ABU Indonesian Robot Contest	2016
3th Place ABU Indonesian Robot Contest	2018
Participant and Team Lead ABU Indonesian Robot Contest	2016 - 2018