Niko Mireta Milala

DevOps Engineer | Cloud Infrastructure & Automation

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PROFESSIONAL SUMMARY

DevOps engineer with 10+ years of infrastructure experience, progressing from network operations to server administration and cloud engineering. Work spans CI/CD pipelines, Terraform provisioning, and operational automation across AWS and Alibaba Cloud, supporting production systems with 15,000+ users.

PROFESSIONAL EXPERIENCE

BPK PENABUR Jakarta | Jakarta, Indonesia

Cloud Engineer / DevOps | Feb 2020 - Present

- Manage AWS and Alibaba Cloud infrastructure, including VPC, RDS, and load balancers, supporting 15,000+ users and peak exam-period demand of 7,000 concurrent users.
- Built the organization's first CI/CD pipeline using GitLab, Git, and Docker, reducing deployment time from 4 hours to under 15 minutes.
- Introduced Terraform to replace manual provisioning and standardize production, staging, and development environments.
- Reduced monthly cloud spending by approximately 30% through right-sizing, autoscaling, and reserved instance planning across AWS and Alibaba Cloud.
- Automated attendance data collection from 64 biometric devices using Python, eliminating a full day of manual data entry per collection cycle.
- Manage approximately 50 servers, including a Kubernetes cluster on Alibaba Cloud ACK, with Cloudflare WAF/DNS and production server hardening.

Web & Application Administrator | Apr 2018 - Jan 2020

- Migrated the web stack from Apache to LiteSpeed with LSCache, reducing page load time by more than 60%.
- Introduced Cloudflare edge security across the organization.

Network & Infrastructure Technician | Sep 2015 - Mar 2018

- Operated centralized SNMP monitoring with Centreon across 79 school sites, supporting 3,000+ staff and tens of thousands of students.
- Standardized incident runbooks, reducing mean time to recovery for common outages to under one hour.
- Performed on-premises data center work, including structured cabling and VLAN segmentation across campus sites.
- Deployed UniFi and MikroTik networks with Google Workspace authentication for access control.

SELECTED PROJECTS

Moodle on Alibaba Cloud ACK | Mar 2026

- Built an open-source Terraform and Kubernetes blueprint for Moodle using ACK, RDS PostgreSQL, PgBouncer, Redis, NAS, and OSS.
- Separated web and background workloads and documented bootstrap access, deployment procedures, and checks before production traffic.
- Project: https://github.com/nikomireta/moodle-alibaba-ack-ha-blueprint

SPH Website Infrastructure Reengineering | Sep 2024

- Migrated the main and Summer WordPress websites to an Azure environment using AlmaLinux, WHM/cPanel, and LiteSpeed.
- Configured LSCache, LSMCD, Cloudflare WAF/DNS, and TLS, and documented backups, service administration, and operational handover.
- Case study: https://niko.my.id/posts/reengineering-website-sph-azure

StealthNotes | Oct 2026

- Built a local Windows notes application in C# and .NET 10 with WinForms, Win32 interop, and SQLite.
- Implemented ghost mode with click-through behavior and capture-exclusion requests for reading tutorial scripts during screen recording.
- Project: https://github.com/nikomireta/stealthnotes

TECHNICAL SKILLS

Cloud & Infrastructure: AWS, Alibaba Cloud, Azure, GCP, Terraform, Docker, Kubernetes (Alibaba Cloud ACK).

CI/CD & Observability: Git, GitLab CI/CD, Grafana, Centreon, SNMP, SonarQube, Trivy.

Systems & Automation: Linux (Ubuntu, AlmaLinux), Python, Bash, AI-assisted infrastructure workflows using MCP.

Web Platforms & Security: Nginx, Traefik, LiteSpeed, LSCache, LSMCD, cPanel/WHM, Plesk, Cloudflare WAF/DNS, SSL/TLS, Moodle, WordPress.

Data & Development: MySQL, PostgreSQL, Redis, FastAPI, Laravel, Django, PHP, JavaScript, C#.

Networking: MikroTik, UniFi, VLAN segmentation, network monitoring, NOC operations.

EDUCATION

BINUS University | Jakarta, Indonesia

Bachelor's Degree in Computer Science | 2019 - 2024