



ANDY SETIYAWAN

DEVOPS / CLOUDOPS ENGINEER

Contact

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Summary

DevOps / SRE / CloudOps Engineer / Sysadmin with 8+ years of experience building and managing production-grade infrastructure across multi-cloud environments (AWS, GCP, Huawei Cloud, DigitalOcean, Linode, Eranyacloud, and on-premise). Specializes in Infrastructure as Code (IaC), CI/CD automation, Site Reliability Engineering (SRE), and DevSecOps. Proven track record in reducing infrastructure costs, improving system observability, and leading incident response for critical production systems. Experienced in AI infrastructure including LLM inference deployment (vLLM), vector database management (Qdrant), and API layer design. Committed to zero downtime deployments, security compliance, and driving automation to reduce operational overhead.

Work Experience

Cloudops Engineer | 2025 - Present

ICube

- Spearheaded CloudOps operations across Huawei Cloud, Linode, and Eranyacloud environments, maintaining 99.9% uptime for production-grade infrastructure with proactive issue detection and performance optimization.
- Researched and developed a new tech stack for autonomous infrastructure, reducing human intervention by 40% through intelligent automation and self-healing systems.
- Researched and developed integration between core infrastructure systems and AI servers, enabling reliable LLM inference and AI workload support.
- Built autonomous operational scripts to reduce manual infrastructure intervention by 80%, improving team efficiency and system reliability.
- Led defensive security planning and patch management strategy across production infrastructure, ensuring timely remediation of vulnerabilities and security compliance.
- Developed and maintained automated scripts for security patching, reducing manual intervention and accelerating vulnerability remediation across infrastructure systems.

Cloudops Engineer | 2019 - 2025

ICube By Sirclo (PT Lingkar Niaga Solusindo)

- Managed and optimized production-grade infrastructure across multi-cloud platforms (GCP, AWS, Huawei, Linode, DigitalOcean), ensuring high-availability, performance, and proactive issue detection.
- Designed and implemented infrastructure automation and CI/CD pipelines (Git, Jenkins, Buildkite, Helm, Terraform) within Kubernetes environments, improving deployment efficiency and system reliability.
- Collaborated across the software development lifecycle with engineering and cross-functional teams to deliver scalable and maintainable systems.
- Strengthened system security through infrastructure hardening and continuous security improvements, improving system resilience, reliability, and stability across high-availability production environments.
- Acted as a primary escalation point, resolving 10+ L2 incidents weekly and reducing critical resolution time through effective root cause analysis

Network & Server Engineer | 2018 - 2019

PT Media Belajar Indonesia

- Designed and deployed on-premise server infrastructure for a Computer-Based Test (CBT) system, enabling scalable and reliable operations across multiple branches.
- Implemented an inter-regional network architecture connecting multiple cities (Yogyakarta, Surabaya, Lamongan, Bojonegoro, Tulungagung), improving system centralization and operational efficiency

Network Security Analyst | 2018 - 2019

PT Aino Indonesia

- Designed and implemented network security architecture for large-scale e-ticketing platforms (Gembiraloka Zoo, Prambanan Temple, Ratu Boko Temple, Ramayana, MRT, TransJakarta, TransJogja), improving system security and supporting reliable digital transaction services.

Network Security & Server Engineer | 2017 - 2018

PT Sydeco

- Managed and monitored network infrastructure (routers, Wi-Fi, switches, CCTV, and on-premise servers) to ensure system reliability and stable operations.
- Designed and implemented a custom first-layer firewall solution using a Single Board Computer, improving network security and system stability.
- Provided infrastructure support across hardware, software, and network systems to ensure service continuity and effective cross-team collaboration.
- Developed automation scripts for backup processes, reducing manual effort by 2 hours per week and achieving 99.9% data recovery reliability.

Freelance Work Experience

Freelancer | 2017 - Present

- Provided independent consulting and development services across network security, API development, and infrastructure for multiple clients.
- Developed and secured an API server with IPsec tunneling to Bank BJB for Hipajak, enabling reliable and secure tax payment transactions for the Samsat Mobile Jawa Barat (Sambara) application.
- Implemented CCTV systems across multiple branches (Yogyakarta, Surabaya, Bojonegoro, Lamongan, Tulungagung) to enhance operational monitoring and security.

Skills

Cloud & Infrastructure:

GCP, AWS, Huawei Cloud, Linode, DigitalOcean, Eranyacloud, Byteplus, On-Premise.

Containerization & Orchestration:

Docker, Docker Compose, Kubernetes, LXC/LXD.

CI/CD & Infrastructure as Code:

Terraform, Jenkins, Buildkite, Helm, Ansible, Packer, Git, YAML.

Monitoring & Observability

Prometheus, Grafana, Loki, Datadog, New Relic, SonarQube.

AI Infrastructure & Tools:

vLLM, FAISS, Qdrant, LibreChat, N8N, Flowise, Langflow, OpenWebUI, ComfyUI, Ollama, Llama.cpp, Hugging Face.

Database & Messaging

PostgreSQL, MySQL, MongoDB, Elasticsearch, RabbitMQ, PGVector.

Programming Language & Script

Python, Bash, Shell Script, JavaScript, PHP.

Frameworks

FastAPI, Next.js, Laravel, CodeIgniter

CDN & Proxy

Cloudflare, CloudFront, Nginx, HAProxy, Varnish, Traefik

Cloud Storage

AWS S3, DigitalOcean Spaces, GCP Storage, Linode Object Storage, Huawei Cloud OBS.

DevSecOps & Security:

Cloudflare WAF, ModSecurity, Fail2Ban, pfSense, OpenVPN, WireGuard, OWASP ZAP, Skudonet, Zero-Trust Security.

Certification

- **Udemy DevOps MasterClass: Terraform Kubernetes Ansible Docker - 2025.**
<https://www.udemy.com/certificate/UC-a8e03d87-2936-4b68-ab3e-2f62803b8aa1/>
- **Udemy Kubernetes with HELM: Kubernetes for Absolute Beginners - 2025.**
<https://www.udemy.com/certificate/UC-5c6e43b5-4b11-4060-a68b-76a21715e200/>
- **Udemy Ultimate DevOps to MLOps Bootcamp - Build ML CI/CD Pipelines -2025.**
<https://www.udemy.com/certificate/UC-437d386a-1bd1-4772-ae67-df5284387604/>
- **Udemy AI Bible: From Beginner to Builder in 100 Projects - 2025.**
<https://www.udemy.com/certificate/UC-e8193950-f3ae-4c1c-bff2-69fd3027346b/>
- **Udemy AI Agents Bootcamp: Cost-Free LLMs to Production Systems - 2025.**
<https://www.udemy.com/certificate/UC-7173d7e6-4ffd-4130-9047-d0f22a814fec/>

Personal Projects

- **Konoha** - MCP Tools Orchestrator agentic workflow for Antigravity IDE/Cli, Claude, Opencode, Codex, Commandcode, Cursor. Used by Vibecoder Community. (<https://github.com/andycungkrinx91/konoha>)
- **K6 AI Powered** - Full-stack performance testing platform combining k6 load testing, AI analysis (Gemini, OpenAI, local LLM), and a modern analytics dashboard into a production-ready system (GitHub: <https://github.com/andycungkrinx91/k6-AI-Powered>)
- **Smart RT** - Developed a community management platform (RT/RW) with a public-facing frontend and admin dashboard using Next.js and FastAPI (GitHub: <https://github.com/andycungkrinx91/Smart-RT>)
- **Terraform DigitalOcean Laravel Provisioning** - Automated infrastructure provisioning for Laravel applications using Terraform on DigitalOcean, improving deployment efficiency and scalability (GitHub: <https://github.com/andycungkrinx91/terraform-DigitalOcean-laravel>)

Education

University Bina Sarana Informatika | Graduation Year 2016

D3 in Information Management | IPK 3,25

Note: *Equivalent practical experience: 8+ years in enterprise-grade production infrastructure across multi-cloud and on-premise environments.*

Language

- **Indonesian - Proficient (Native)**
- **English - Intermediate (Technical documentation & written communication)**