ANDY SETIYAWAN

CLOUDOPS ENGINEER

Contact

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About Me

I'm a CloudOps Engineer with over 5 years of experience designing, managing, and optimizing highly scalable server infrastructure. I have expertise in both cloud environments (GCP, AWS, Huawei Cloud, DigitalOcean, Linode) and on-premise systems.

I'm proficient in operational automation, implementing CI/CD pipelines (Jenkins, Buildkite), system monitoring, and cross-functional collaboration throughout the entire software development lifecycle. I am committed to continuous learning and implementing new technologies, with a special interest in AI infrastructure engineering. In this area, I apply DevSecOps principles to build efficient and secure environments for AI model deployment, all while ensuring data privacy is maintained.

Work Experience

Cloudops Engineer | 2019 - 2025
ICube By Sirclo (PT Lingkar Niaga Solusindo)

- To maintain and manage cloud server infrastructure on various platforms (GCP, AWS, Huawei, Linode, Digitalocean) for proactive problem detection, conduct in-depth post-incident reviews, and plan system capacity to ensure optimal availability and performance.Designing and developing automation tools and systems for routine operations, including CI/CD management (using Git, Jenkins, Buildkite, and Helm) and Infrastructure as Code (IaC) in a Kubernetes environment, thereby significantly improving the efficiency of the software development process.
- Actively participating in the entire software development lifecycle, from design and development to deployment, monitoring, and continuous improvement, while collaborating closely with software engineers and cross-divisional teams.
- Building and operating a secure service environment (through security hardening) and ensuring it is highly scalable. I also perform continuous improvements for highly-available systems.
- Resolving an average of 10+ L2 escalation tickets per week and reducing critical incident resolution time through efficient root cause analysis.

Network & Server Engineer | 2018 - 2019
PT Media Belajar Indonesia

- Designing and building an on-premise server infrastructure for a CBT (Computer-Based Test) system to advance computer-based testing at all branches.
- Designing and building an inter-regional network system covering Yogyakarta, Surabaya, Lamongan, Bojonegoro, and Tulungagung to centralize systems across all branches.

Network Security Analyst | 2018 - 2019
PT Aino Indonesia

- Designing and building network system security for the e-ticketing platforms of Gembiraloka Zoo, Prambanan Temple, Ratu Boko Temple, Ramayana, MRT, Transjakarta, and Transjogja to support the team and company in realizing a digital-based e-ticketing system.

Network Security & Server Engineer | 2017 - 2018
PT Sydeco

- Maintaining and monitoring the network on devices like routers, Wi-Fi, switches, CCTV, and on-premise servers to ensure all systems and the network function properly.
- Designing and building a secure system with optimal and stable customization on a dedicated device used as a first-layer firewall (Using custom Single Board Computer).
- Provide maintenance and support for hardware, software, and network quality for all teams to enhance cross-divisional collaboration and strengthen teamwork.
- Developed automation scripts for daily and monthly backup processes, successfully reducing manual task time by 2 hours per week and ensuring a 99.9% data recovery availability.

Freelance Work Experience

Freelancer | 2017 - Present

- Designed and built a local server with an intranet for content creators, specifically for AI image editing and generation using ComfyUI.
- Designing and building a local server with an intranet network for a small community, supporting their needs for AI chat, code generation, and image generation using open-source tools like Llama.cpp and LibreChat.
- For Hipajak as a freelancer, I designed and built a secure API server with IPsec tunneling to Bank BJB. This system facilitated secure and reliable tax payment transactions for the Samsat Mobile Jawa Barat (Sambara) application.
- Designed and built a profile website for Sajira Logistik to provide online-accessible information.
- Installation of CCTV at the Airlangga Education Center branches in Yogyakarta, Surabaya, Bojonegoro, Lamongan, and Tulungagung to ensure that tutoring activities are monitored and secure.

Education

University Bina Sarana Informatika | Graduation Year 2016
D3 in Information Management | IPK 3,25

SMK 45 Wonosari Gunungkidul | Graduation Year 2009
Automotive Mechanical Engineering

Personal Projects

- Terraform Digitalocean for automation provisioning Laravel. The project's source code on GitHub: https://github.com/andycungkrinx91/terraform-digitalocean-laravel
- AI CV Optimizer is an AI-powered web application that helps job seekers enhance their resumes. By simply uploading a CV and pasting a job description, users get personalized feedback on how to improve their application. The project's source code on GitHub: https://github.com/andycungkrinx91/AI-CV-Optimizer
- An AI-powered tool designed to enhance web server security. It analyzes Nginx logs and audits website security headers. The project uses a Retrieval-Augmented Generation (RAG) pipeline with Google's Gemini model to provide intelligent, context-aware security recommendations. The GitHub source code for this project can be found at: https://github.com/andycungkrinx91/Nginx-AI-Security-Suite
- Engineered a local GenAI image generation environment by containerizing the ComfyUI application with Docker. This setup provides a portable and efficient way to create AI-generated images. The source code is available on GitHub: https://github.com/andycungkrinx91/comfyui-dockerize

Skills

Cloud Platforms & Hosting
GCP, AWS, Huawei Cloud, Linode, DigitalOcean, Vultr, Azure, Rumahweb, Hostinger, Vercel, On Premise

Containerization & Orchestration
Docker, Docker Compose, Kubernetes, Buildah, Podman, LXC

CI/CD & Automation(IaC)
Jenkins, Terraform, Packer, Ansible, Buildkite, Helm

Monitoring & Observability
Grafana, Loki, New Relic, Datadog, Prometheus, Sonarqube, Skywalking, UptimeKuma, UptimeRobot, Sentry, Splunk, Nagios, Zabbix

AI / ML Tools:
ComfyUI, Ollama, Llama.cpp, Hugingface, Openrouter, Google GenAI, OpenAI, Langflow, LocalAI, LocalAGI, OpenwebUI, Stable diffusion, LibreChat, N8N

Database & Messaging
PostgreSQL, MySQL, MongoDB, SQLite, Elasticsearch, RabbitMQ, FAISS, Qdrant

Programming Language & Script
Shell Script, Python, PHP, JavaScript, Visual Basic, C++

Frameworks
NextJS, React Native, Laravel, CodeIgniter, NuxtJS, FastApi, Streamlit

CDN & Proxy
Cloudflare, Cloudfront Sucuri, Edgenext, Haproxy, Nginx, Varnish, Thumbor, Traefik

Cloud Storage
AWS S3, Digitalocean Space, GCP Storages, Linode Object Storages, Huawei Cloud OBS, Minio, NFS Server

Network & Security
Cloudflare WAF, Fail2Ban, Honeynet, IPsec, IPtables, Metasploit, Mikrotik, Modsecurity, Nmap, OpenVPN, OWASP Zap, PFSense, Snort, Suricata, Scrapy, Wireguard

Operation System & Distro
Alpine Linux, Arch Linux, Back Track, BlackArch, Centos, Ubuntu, Debian, Fedora, FreeBSD, OpenBSD, Kali Linux, Linux Mint, Manjaro, OpenSUSE, Red Hat, RouterOS, Windows, Armbian

Certification

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

Language

- **Indonesian (Proficient)**
- **English (Basic)**