Leonard Ferdinand Rianto Suwanta

COMPUTER SCIENCE STUDENT | INFRASTRUCTURE · CLOUD · NETWORKING · DEVOPS

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PROFILE

Computer Science undergraduate at BINUS University with hands-on experience in Linux administration, network configuration, and cloud application deployment through academic projects and homelab work. Built a Linux network gateway, maintained a containerized Nextcloud environment, and automated application deployments using GitHub Actions on Debian and AWS ECS/Fargate. Interested in infrastructure, cloud operations, networking, and DevOps, with a practical focus on troubleshooting, secure service exposure, and repeatable deployments.

EDUCATION

BINUS University — Jakarta, Indonesia | Bachelor of Computer Science | 2024–Present

Relevant coursework: Data Structures & Algorithms, Object-Oriented Programming, Database Systems / SQL, Computer Systems, Computer Networks, and Programming in C.

SELECTED PROJECTS

Point of Sale (POS) System | Software Engineering Final Project · Team

AWS ECS/Fargate, Application Load Balancer, Docker, GitHub Actions, Git

- Contributed to backend reporting for monthly sales, revenue, profit, and member profitability in a team-built POS application supporting transaction and inventory workflows.
- Deployed the multi-container application to AWS ECS/Fargate behind an Application Load Balancer and automated deployments with GitHub Actions and Docker; completed 17 deployment runs averaging approximately 90 seconds per pipeline.

Bare-Metal CI/CD & Secure Application Ingress | Independent Project

Debian, GitHub Actions, Docker, Cloudflare Tunnel

- Configured a Debian self-hosted GitHub Actions runner to build and deploy a Dockerized application to a local host, completing 5 successful deployment cycles.
- Exposed the application through Cloudflare Tunnel without inbound router port forwarding, restricted the MySQL container to an internal Docker bridge network, and kept runtime environment configuration outside the source repository.
- Applied PHP security updates through the automated deployment workflow.

Linux Gateway, DNS & Firewall Homelab | Independent Project

Ubuntu Server, NAT, UFW/iptables, DHCP, AdGuard Home, Tailscale

- Built an Ubuntu Server gateway to provide NAT masquerading, DHCP, routing, and centralized DNS filtering for a home network.
- Configured UFW/iptables forwarding rules to restrict administrative access and isolate the guest subnet (192.168.20.0/24) from trusted network resources.
- Integrated Tailscale into gateway forwarding rules and troubleshot ISP ONT/VLAN connectivity; applied TCP MSS clamping to address stalled requests.

Self-Hosted Nextcloud & Scheduled Backups | Independent Project

Debian, Docker Compose, PHP-FPM, MariaDB, Redis, Caddy, WebDAV

- Deployed and maintained a multi-container Nextcloud environment using Docker Compose, persistent external storage, internal bridge networks, and Cloudflare Tunnel for remote access.
- Configured daily 03:00 Cron jobs for file-state verification and Round Sync/WebDAV transfers across storage tiers, including microSD backups; managed 1 TB primary and 1 TB backup drives with approximately 240 GB active data and 550+ GB replicated data.
- Investigated recurring host freezes previously occurring every 4–7 days; blacklisted unstable GPU drivers, disabled USB autosuspend, and tuned MariaDB/Doctrine indexing. Subsequent observed runtime reached nearly two weeks continuously.

FastAPI Application Deployment — COMPFEST | Competition Team Project · Deployment

Linux VPS, PM2, Nginx, Let's Encrypt, Fail2Ban, UFW

- Deployed a team-developed FastAPI backend to an OVHcloud Linux VPS, configuring PM2 process management, Nginx reverse proxy, domain routing, and Let's Encrypt TLS.
- Hardened server access with SSH key-only authentication, Fail2Ban, and UFW; the service remained available during live judging.

TECHNICAL SKILLS

Linux & Systems: Fedora, Debian, Ubuntu Server, shell/CLI, systemd, SSH, UFW, iptables, log and service troubleshooting

Networking: TCP/IP, routing, NAT/masquerading, DNS, DHCP, VLAN 802.1Q, reverse proxy, TLS, Cloudflare, Tailscale

Cloud & Containers: AWS (VPC fundamentals, IAM, ECS/Fargate, ALB, CloudWatch), Docker, Docker Compose

Automation & Development: Git, GitHub Actions (self-hosted runners, AWS OIDC federation), Bash, Python, C, SQL, JSON/YAML, REST APIs

Infrastructure Tools: Caddy, Nginx, Cloudflare Tunnel, Nextcloud, Redis, MariaDB, AdGuard Home

CERTIFICATION

AWS Certified Cloud Practitioner — Amazon Web Services (2026)