



MOHD IRWAN MOHI @ MOHYI

Server Manager | Linux Infrastructure Engineer

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PROFESSIONAL SUMMARY

Server and Linux infrastructure specialist, 19+ years in enterprise IT operations. Currently responsible for around 32 production servers behind 16 public-sector and enterprise web portals: multi-node clusters running Ubuntu and RHEL under Virtualmin, load balanced with HAProxy, serving Apache and Nginx over PHP-FPM against MariaDB and Redis. The work covers security hardening (ModSecurity with the OWASP Core Rule Set, host firewalls, SSH and TLS), DNS and Cloudflare, migrations, backup and disaster recovery, and incident response. Clients call me when a portal is down. Whatever I change, the next engineer gets it in writing.

SELECTED ACHIEVEMENTS

- Rotated database and cache credentials across a five-node production cluster with no downtime. Old and new credentials both stayed valid through the changeover, so nothing needed restarting.
- Traced a duplicate-content bug that had been blamed on the application for months. The real cause was sessions written to local disk during backend failover; moving session storage to Redis ended it.
- Took a live government portal from detection-only to full web application firewall enforcement. The editorial team never noticed, because the administrative path stayed in detection mode while the rules were tuned.
- Found a backup job that had been compressing every archive twice. Fixed the job, then wrote the recovery steps for the archives already sitting on disk.
- Corrected intrusion-detection log sources that looked active but were watching empty files.
- Wrote and published an open-source Webmin module for managing ModSecurity across multi-domain hosting servers.

TECHNICAL SKILLS

Operating Systems: Ubuntu Server (20.04 / 22.04 / 24.04), RHEL, AlmaLinux, CentOS, Debian, Arch Linux; Windows Server 2008 / 2012 / 2016

Web & Hosting Platforms: Virtualmin / Webmin, cPanel / WHM, Plesk, DirectAdmin, Apache HTTP Server, Nginx, PHP-FPM

High Availability: HAProxy load balancing and health checks, Galera Cluster, ProxySQL, NFS shared storage, Redis shared session state

Databases: MariaDB, MySQL, Redis, phpMyAdmin, MSSQL; backup and restore, retention policy, query and connection tuning, access lockdown

Security: ModSecurity with OWASP Core Rule Set, CSF / LFD, ufw, SSH hardening, SSL / TLS, security headers, CVE remediation, malware detection, incident response and forensics

Networking & DNS: BIND and DNS zone management, Cloudflare, reverse proxy, WireGuard VPN, client-IP forwarding (X-Forwarded-For), iptables/nftables, Active Directory, DHCP, Group Policy

Cloud & Virtualisation: AWS (EC2, S3, RDS, VPC), DigitalOcean, VPS provisioning, VMware, server migration and cutover planning

Automation & Scripting: Bash, Python, Perl, cron, systemd timers, Git

Languages: Bahasa Malaysia (native) · English (professional working proficiency)

PROFESSIONAL EXPERIENCE

Server Administration Manager | Aidan Technologies Sdn Bhd

Jun 2021 – Present

Owns the production Linux estate for public-sector and enterprise web portals: build, secure, monitor, migrate, recover. Single point of escalation when production breaks.

- Administer multi-node Linux clusters (load balancer, dual web nodes, dedicated database host and shared NFS storage) running Ubuntu Server under Virtualmin.
- Configure and tune Apache, Nginx, PHP-FPM and HAProxy, including health checks, rate limiting and shared session state so either web node can serve any visitor.
- Administer MariaDB and Redis: backups and verified restores, retention, query and connection tuning, and reducing network exposure to application nodes only.
- Manage DNS zones, Cloudflare configuration and SSL/TLS certificate issuance and renewal across all hosted domains.

- Deploy and tune ModSecurity with the OWASP Core Rule Set; manage host firewall policy (CSF, ufw), SSH hardening, security headers and CVE remediation.
- Plan and execute server migrations and cutovers, rehearsed on staging, with a documented rollback path that stays valid until the old host is retired.
- Design and test backup and disaster recovery: physical and per-database logical backups, integrity verification, enforced retention, and recovery procedures stored with the backups.
- Lead incident response from containment through to the written post-incident report, including log forensics, file-integrity checks against vendor release hashes, remediation and credential rotation.
- Install and manage Galera database clusters, high-availability servers and ProxySQL configurations.
- Support AWS workloads (EC2, S3, RDS, VPC) and third-party data feeds; perform code releases and manage application deployment.
- Produce technical documentation and handover runbooks, and work directly with developers, vendors and client IT teams through delivery and escalation.

VPN Service Operator (WireGuard) | Self-Employed / Freelance

Jan 2020 – May 2021

Ran a self-hosted VPN service through the COVID-19 pandemic and movement control period.

- Built and ran self-hosted WireGuard VPN servers on three DigitalOcean droplets across three continents, covering install, key generation and exchange, per-client tunnel configuration, and IP routing and NAT.
- Administered the servers end to end, including firewall rules (iptables/nftables), system updates and keeping tunnels stable for paying customers.
- Grew the service to a peak of around 70 new customers a month, handling client setup, configuration and connectivity troubleshooting on desktop and mobile.
- Ran the business side alone: subscriptions, order processing, payment reconciliation and customer records.

Level Two Support Engineer | Datakl Solutions

Jul 2019 – Jan 2020

Second-line escalation for managed server and hosting environments.

- Managed Microsoft and Unix server environments, resolving issues escalated from first-line support.
- Supported Active Directory, DNS and Group Policy implementations across Windows Server estates.
- Provided technical support for network infrastructure and managed hosting environments.
- Performed risk assessment and troubleshooting for AWS services, database clusters and network infrastructure.

Customer Care Associate | Acme Commerce Sdn Bhd

Jun 2018 – Jul 2019

Customer-facing technical support for a web hosting provider.

- Supported dedicated servers, shared hosting, VPS and domain registration services for business customers.
- Installed and maintained hosting control panels (cPanel, WHM, Plesk and provider power panels) for customer and internal systems.
- Investigated and mitigated service-affecting risks across the company's hosting products.

Customer Support Supervisor | SKSA Technology

Nov 2006 – Jun 2018

Supervised the customer support function of a web hosting and IT services provider.

- Led day-to-day support for dedicated servers, shared hosting, VPS and domain registration, setting response priorities and handling escalations.
- Installed and maintained hosting application servers using cPanel, WHM, Plesk and control panels.
- Diagnosed and mitigated service-affecting problems, reducing repeat incidents across the hosting platform.
- Prepared tender submissions, course paperwork and reporting for the 1NITA workshop programme (2012), and provided on-site support to participants.

Early Career

- Short contract and temporary roles in 2002 before moving into IT: Ahead Marine Engineering (M) Sdn Bhd (vessel repair and maintenance) and Malaysian Issuing House Sdn Bhd (share application processing).

OPEN-SOURCE PROJECT

Virtualmin ModSecurity Manager github.com/irwanmohi/modsecurity

A Webmin module in Perl that makes WAF management practical for hosting operators: blocked requests grouped by rule and domain, one-click per-domain exclusions, OWASP Core Rule Set installation and tuning, IP allow and block lists that stay correct behind a reverse proxy, and config backup with rollback on error. Runs on both Debian/Ubuntu and RHEL-family systems.

EDUCATION

Bachelor of Computer Science | Malaysia University of Science & Technology

Expected Dec 2028

Diploma in Business Studies & Administration | Victoria International College

Completed 2015

Professional Certificate in IT & Networking | Institut Pengajian Ilmu Islam

Completed 2001

Licence: Malaysian Driving Licence Class B2 (JPJ, 2024). Professional IT certifications in progress.