

Kyaw Sithu

System | Platform Engineer - K8s

✉ kyawsithu1996@outlook.com

☎ +971561268346

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in kyawsithu

🔗 Github Link

🔗 Kubestronaut Profile



👤 PROFILE SUMMARY

Certified Kubernetes professional (Kubestronaut, ICA, RHCSA) with 9+ years of experience in systems and platform engineering across Telecoms, FinTech, Healthcare, and ISP industries. Proven track record of delivering and supporting production Kubernetes platforms, preparing deployment packages, and building automation that turns architectural standards into repeatable, well-documented solutions. Skilled in Linux fundamentals, Infrastructure as Code, observability stacks, and performance engineering for distributed and cloud-native environments.

🧩 CORE COMPETENCIES

Kubernetes & Orchestration: K8s (CKA), Rancher, Helm, Kustomize, EKS
Service Mesh & Networking: Istio (ICA), NGINX, CNI plugins, Ingress/Egress
Containerization: Docker, Container registry mgmt, Vulnerability scanning
Infrastructure as Code: Terraform, Ansible, Deployment templates & manifests
CI/CD & GitOps: Jenkins, GitHub Actions, GitOps, Automated testing
Cloud Platforms: AWS, Huawei Cloud, Hybrid-cloud provisioning
Observability & Monitoring: Prometheus, Grafana, ELK Stack, Logging pipelines
Performance Engineering: Cluster tuning, Benchmarking, Resource optimization
Linux & OS Engineering: RHCSA, Security hardening, OS imaging
Programming & Scripting: Python, Bash
Data & Messaging: Kafka, Kafka Connect
Documentation: Deployment guides, SOPs

📜 PROFESSIONAL CERTIFICATIONS

- **Kubestronaut Status** [🔗](#)
 - **KCSA: Kubernetes and Cloud Native Security Associate** [🔗](#)
 - **KCNA: Kubernetes and Cloud Native Associate** [🔗](#)
 - **CKS: Certified Kubernetes Security Specialist** [🔗](#)
 - **CKAD: Certified Kubernetes Application Developer** [🔗](#)
 - **CKA: Certified Kubernetes Administrator** [🔗](#)
- **ICA: Istio Certified Associate** [🔗](#)
- **Red Hat Certified System Administrator** [🔗](#)

🧰 CAREER EXPERIENCE

04/2022 – Present
Dubai

Devops Engineer, Peg B Technology | Dubai [🔗](#)

Kubernetes Platform & Deployment Engineering

- Deployed and managed production Kubernetes clusters using Rancher v2 for multi-cluster orchestration, supporting wallet and payment platform microservices across UAE and South America regions

- Implemented Istio service mesh for traffic management, mTLS enforcement, and ingress/egress control across microservice architectures
- Built and maintained deployment templates, Helm charts, and automation playbooks for consistent cluster rollouts and upgrades across environments
- Configured node-level settings including resource limits, scheduling policies, and container runtime tuning for workload performance optimization
- Configured and troubleshooted Kafka message queues ensuring reliable message delivery and fault tolerance for distributed services

CI/CD Pipeline Development & Automation

- Architected Jenkins CI/CD pipelines for 20+ microservices, implementing automated unit, integration, and security testing to reduce deployment time
- Managed artifact versioning with retention policies; created Prometheus/Grafana dashboards for build metrics and pipeline monitoring

Cloud Infrastructure & Observability

- Architected hybrid-cloud environments using Huawei Cloud and on-premises infrastructure for global deployments, provisioning compute, storage, networking, and databases
- Developed Infrastructure as Code templates (Terraform, Ansible) for repeatable and consistent cloud resource provisioning
- Optimized container registries and implemented vulnerability scanning for Docker images to ensure supply chain security
- Defined monitoring baselines and maintained Prometheus/Grafana observability dashboards and ELK logging pipelines for workload performance validation
- Produced deployment guides, runbooks, and operational documentation for delivery and operations teams

07/2020 – 04/2022
Myanmar

System Engineer, GTMH Telecom | Myanmar [🔗](#)

Systems Infrastructure & Automation

- Deployed and administered critical enterprise systems including Zimbra email, OSTICKET, and Zabbix monitoring platforms
- Automated system configurations using Ansible playbooks, reducing infrastructure provisioning timelines from days to hours
- Managed Linux infrastructure with security hardening, patching, kernel tuning, and performance optimization ensuring 99.9% uptime
- Troubleshooted complex network services (NFS, DNS, LDAP, SMTP, SNMP) and coordinated with vendors for escalations and compatibility updates

Kubernetes & Container Platform

- Deployed Kubernetes clusters for microservices with auto-scaling capabilities and resource optimization
- Built Jenkins CI/CD pipelines from scratch, automating build, test, and deployment processes end-to-end
- Developed Ansible scripts and deployment playbooks enabling consistent, repeatable cluster rollouts

Private Cloud & Vendor Support

- Supported nationwide FinTech platform serving 10K+ users, managing VMware ESXi virtualization for private cloud customers
- Developed Bash scripts for automation, backup, and system maintenance; produced SOPs and technical documentation for knowledge sharing

07/2019 – 07/2020
Myanmar

System Engineer, Fortune Broadband | Myanmar [🔗](#)

- Launched LTE/Fiber broadband system for 10K+ customers with integrated billing and service management
- Deployed LibreNMS monitoring with custom dashboards for service visibility and performance tracking

- Implemented PowerDNS authoritative server, migrated DNS zones, and configured Exim SMTP with billing integration
- Managed ESXi virtualization and storage systems (SAN/NAS) for high availability

01/2018 – 01/2019
Myanmar

System Support Engineer, *Sysnet System PTE Ltd | Myanmar* [↗](#)

- Deployed infrastructure solutions for global healthcare industry clients and automated system configurations with Ansible
- Managed storage systems for data and VM backups; created SOPs, runbooks, and technical documentation
- Configured monitoring systems and developed automated reporting tools for operational visibility

12/2016 – 01/2018
Myanmar

Junior System Administrator, *RITZ Public Company Limited* [↗](#)

- Administered Linux systems including DNS, Apache, SSH, and file services with router and switch configuration management
- Wrote shell scripts for automation, backups, and log collection; performed system troubleshooting and performance tuning

EDUCATION

2014 – 2019
Yangon

BA (English), *University Of Dagon, Yangon*

Projects

 **Projects (General)** <https://marred-network-70a.notion.site/2687346d5fdc808bb0e7e954497fa87d?v=2687346d5fdc8191b4f8000ca13d7e0f> [↗](#)

 **Cloud Repositories** <https://gitlab.com/users/kyawsithu96/projects> [↗](#)

 **GitOps Detailed Implementation** <https://link.excalidraw.com/l/9hD7S5FgGWN/8jzN9LHMCE7> [↗](#)

Architecture Diagrams & Troubleshooting

- EKS Detailed Diagram → <https://link.excalidraw.com/l/9hD7S5FgGWN/2J5dC4WV8hn> [↗](#)
- AWS SSM Solution → <https://app.excalidraw.com/s/9hD7S5FgGWN/20EHmCmwG79> [↗](#)
- Vault AWS HCP Peering → <https://link.excalidraw.com/l/9hD7S5FgGWN/SGFnwKLqta> [↗](#)
- CLI-Driven Workflow (Terraform) → <https://link.excalidraw.com/l/9hD7S5FgGWN/8mPALVeTysY> [↗](#)
- WebRTC Troubleshooting (Cloudflare) → <https://app.excalidraw.com/s/9hD7S5FgGWN/5ciC5HxRvTd> [↗](#)
- Keycloak PKCE Flow → <https://app.excalidraw.com/s/9hD7S5FgGWN/1NT5qqBZhmG> [↗](#)
- How Terraform Providers Work → <https://link.excalidraw.com/l/9hD7S5FgGWN/4Ad7x0VzXfV> [↗](#)
- AWS Assume Roles Analysis → <https://link.excalidraw.com/l/9hD7S5FgGWN/kji9QPjfN9> [↗](#)
- K8s Service Accounts (v1.22) → <https://link.excalidraw.com/l/9hD7S5FgGWN/64KXGLHiUn> [↗](#)
- K8s Service Accounts (v1.20) → <https://app.excalidraw.com/s/9hD7S5FgGWN/1yHKf3rObOI> [↗](#)