Kaung Htet San

Cloud Engineer | Kubernetes | AWS | Terraform | Devops
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in LinkedIn | ◯ GitHub | 🌐 Portfolio | 📝 Blog

Career Profile

Experienced Cloud & Infrastructure Engineer with 7+ years delivering scalable, secure, and highly available systems serving 18M+ users, across cloud-native and hybrid environments. Skilled in AWS, Kubernetes, Terraform, Linux, and OpenStack, with deep understanding Infrastructure as Code (IaC), and Operations. Experienced in designing and managing resilient cloud infrastructure, leading infrastructure migrations, and streamlining deployment pipelines to ensure 24/7 service reliability. Passionate about leveraging modern cloud technologies to solve complex problems, reduce costs and drive continuous improvement in fast-paced, agile teams.

Technical Skills

- Cloud Platforms: AWS (EC2, S3, RDS, VPC, IAM, EKS, ECS, Lambda), OpenStack
- Infrastructure as Code (IaC) & Automation: Terraform, CloudFormation
- Container & Orchestration: Kubernetes, Docker, Helm
- DevOps & CI/CD: Jenkins, GitHub Actions, GitLab CI
- System Administration: Linux (RHEL, CentOS, Ubuntu), Windows Server, VMware (ESXi, vCenter), Shell scripting, performance tuning
- Monitoring & Security: Prometheus, Grafana, Zabbix, CloudWatch, Rsyslog, Vault
- Networking: VPC Design, VPN, SSL/TLS, IAM, Security Groups, NACLs, DNS, AD, DHCP, TCP/IP, OSI Layers, NGINX

Certifications

- AWS Certified Solutions Architect - Associate (2024)
- Certified Kubernetes Administrator (CKA) (2024)
- Certified Kubernetes Application Developer (CKAD) (2025)
- Red Hat Certified System Administrator (RHCSA) (2023)
- VMware Certified Professional - Network Virtualization & Data Center Virtualization (2018)
- Microsoft Azure Administrator (2019) | Palo Alto Accredited Configuration Engineer (2019)
- Cisco Certified Network Associate (CCNA) (2018)

PROFESSIONAL EXPERIENCE

Senior Cloud Infrastructure Engineer
SunIVY Solutions Myanmar Co., Ltd   **May 2023 - Jul 2025**
Project : ATOM Myanmar Project Nokia CBIS 18 and CBIS 20

Responsibilities

- Lead cloud core infrastructure operations for telecom projects supporting 18M+ users.
- Built internal AWS environments (EC2, S3, IAM, VPC) for testing high-availability and disaster recovery scenarios.
- Deployed Terraform and Bash scripting for automated routine tasks and deployments.
- Implemented cloud security hardening with Linux, deploying a centralized rsyslog server.
- Deployed Prometheus & Grafana stack to monitor Docker and VM workloads, with custom metrics, alert rules, and performance dashboards.
- Designed and maintained highly available OpenStack-based private cloud, ensuring 99.99% uptime.
- Worked together with application and network teams to ensure secure and compliant deployments across regions.

- Performed VM provisioning, patching, maintenance and managing Ceph storage clusters.

Achievements
- Led dual-zone VM failure recovery minimizing SLA breach.
- Cut troubleshooting time by 30% with proactive monitoring.
- Created SOPs and docs to support ops, improve incident response, and mentor juniors for better system stability.

SunIVY Solutions Myanmar Co., Ltd
L2/L3 Cloud Operation Engineer   **December 2019 - May 2023**
Project : Telenor Myanmar Project Contracted by Nokia - Nokia CBIS 17.5 and CBIS 18
Responsibilities
- Introduced Terraform in internal test environments to prototype Infrastructure as IaC adoption.
- Used Docker and Linux shell scripting to prepare portable deployment environments to containerize and test apps in isolated environments before rollout.
- Managed OpenStack-based telecom infrastructure (CBIS), ensuring 24/7 uptime with proactive patching and VM lifecycle ops across prod/staging.
- Applied system patching and security hardening for cloud servers and optimized backup and restore procedures.
- Worked closely with security teams to configure firewalls, VPNs, and access controls.
- Managed cloud infrastructure and network operations for enterprise-grade workloads, including VM lifecycle, TCP/IP, VPN, NAT, and routing protocols.

Achievements
- Maintained 99.9% uptime for core telecom workloads, meeting strict SLAs.
- Improved deployment turnaround by 40% by automating patching and provisioning steps.
- Implemented Zabbix-based alerts to improve SLA response.
- Provisioned and managed AWS EC2, S3, and IAM for live environments and internal deployments.

SunIVY Solutions Myanmar Co., Ltd
System Engineer   **October 2018 - December 2019**
SunIVY Solutions Myanmar

- Migrated DNS and AD (LDAP/RBAC) services during data center upgrades.
- Configured Palo Alto firewalls for hybrid secure connectivity.
- Managed Windows and VMware infrastructure during a major migration project.

ICT STAR GROUP MYANMAR Company Limited (ISGM)
Junior System/Network Engineer   **January 2018 - October 2018**
- Managed Windows systems, deployed VMware servers, and configured networks (LAN, WAN, WiFi, Access Points).
- Provided technical support and troubleshooting.

Cloud & DevOps Project Highlights

- **Cloud Resume Portfolio – CI/CD & Monitoring Enabled – Serverless**
  - Hosted static resume website on AWS (S3, CloudFront, Route 53) with CI/CD via GitHub Actions.
  - Managed infrastructure using Terraform; integrated custom metrics and alerting using CloudWatch and use Lambda with Python. (https://github.com/KHS-cpu/portfolio)

- **EKS 2048 Game Deployment**
  - Containerized and deployed the 2048 web game on EKS using a LoadBalancer service.
  - Managed infrastructure using Terraform; Automated deployment using Helm and use EKS Fargate for serverless architecture. (https://github.com/KHS-cpu/eks-2048)
- **BookInfo Microservices with ECS + Harbor + TLS**
  - Deployed the Istio-based BookInfo microservices application in a hybrid environment, utilizing private container images from Harbor for secure image management and leveraging both VM-based and Amazon ECS deployments for architectural flexibility.
  - Configured namespace separation, RBAC, and integrated with Kubernetes. (https://github.com/KHS-cpu/bookinfo)

Educational Background

B.E (Mechanical Precision & Automation)

University of Technology Yatanarpon Cyber City (UT-YCC)   **Dec 2010 - Oct 2016**

Executive Diploma in Network and Server Infrastructure

Lincoln University   **2019**

Languages & Soft Skills

- Languages: English (Fluent), Burmese (Native), Mandarin Chinese (HSK 2)
- Soft Skills: Problem Solving, Team Collaboration, Incident Handling, Knowledge Sharing, Mentoring

ADDITIONAL DETAILS

- Currently based in Bangkok, Thailand
- References: Available upon request.