



# SiThuThwin

SRE Team Lead and Solution Architect

## Address

CL1-202,  
Cityloft@Starcity  
Than Lyin Township  
Yangon, Myanmar

## Tel & Skype

+95 979 7969695  
live:sithuthwin

## Mail

sithu@  
thwin.net

## Web & Git

thwin.net  
github.com/herzcthu  
gitlab.com/herzcthu

## DevSecOps

GitLab CI/CD  
Terraform/Ansible  
SonarQube  
Maven  
Docker  
ELK/EFK  
Prometheus/Grafana  
K8S/Open-  
shift/Helm/Istio/Sin-  
gle  
Mesh  
Pinpoint/Zipkin  
PHP  
Python/Flask  
YAML  
Bash  
LaTeX  
gRPC/mTLS/PKI  
AWS/Azure/Oracle  
MySQL/MongoDB

## Skills

Mesh

**Kubernetes, ISTIO, Helm, Single Mesh, Service Discovery**

DevOps

- More than 4 year experiences working with Kubernetes and Istio
- Setup and maintain multi datacenter, multi cluster single mesh and service discovery using ISTIO
- Well experienced working with ISTIO ingress gateway, virtual services, mTLS and istio API resources
- Very well understanding about Kubernetes APIs and resources
- Very well experienced creating helm charts
- Very well experienced working with stateful apps and statefulset in Kubernetes
- Very well experienced working with Kubernetes operators

Messaging

**Kafka, ActiveMQ, Strimzi, Debezium**

DevOps

- Deploy, manage and maintain Kafka Cluster on Kubernetes and VM
- Deploy, manage and maintain Debezium for CDC
- Manage Strimzi Operator for Kafka Cluster
- Deploy and manage ActiveMQ on Kubernetes and VM

GitOps

**GitOps, GitFlow, Gitlab**

DevOps

- Well experienced on git operation
- Well established knowledge on git and gitflow
- Organize repositories for easier management (Current organization follow the SOP created by myself)

Pipeline

**Gitlab Pipeline, Jira Integration, MS Team Integration**

DevOps

- Creating pipeline on gitlab. I can work on any other pipeline tools.
- Integrate with any agile tools or communication channels

Database

**Oracle, MySQL, MongoDB, SQL**

DBA

- Very proficient with SQL queries
- Basic understanding about Oracle RAC cluster, RMAN, Dataguard
- Well understanding about MongoDB cluster and can manage the cluster
- Well understanding about MySQL server, clusters and replication

APM

**Grafana, Prometheus, Jaeger, Zabbix, Pinpoint, Graylog**

DevOps

- proficient with setting up various monitoring tools
- Pinpoint is one of the great tracing and application performance monitoring tools that can replace various commercial solutions such as appdynamic, dynatrace. I have very good experiences with pinpoint.
- Graylog can replace ELK stack and it is great for application logging. I can setup automatic alert to various communication channels such as slack or team channels. I can create dashboards in graylog for monitoring and early error detection.

## Referee **Experience**

- 08/20 - Now **SRE team Lead and Solution Architect** [YOMA Bank](#)  
 Lead and Manage DevOps team and SRE team, VMWare, System Team, DBA Team and ApplicationRelease team combined as future SRE team which include more than 20 engineers.  
 Design CI/CD pipeline architecture that include centralized configuration management to use in the whole organization.  
 Create gitflow principles to be followed by all developers and DevOps.  
 Solution Architect for personal banking, next generation mobile banking, business credit card portal and bancassurance.  
 Create microservices architecture principles for the whole organization.  
 Create API GW integration architecture principles  
 Design and build essential microservices to use in various integration.  
 Lead CBMNet-II integration development  
 Conducted various training of technologies related with DevSecOps for engineers in the organization
- 03/19 - 08/20 **Lead DevOps Engineer** [YOMA Bank](#)  
 Lead DevOps in Digital Transformation. Designed CI/CD pipeline and Gitflow for new mobile/online banking app based on Backbase.  
 Deploy Kubernetes Cluster on Azure and on-premise Datacenter.  
 Integrate ISTIO and Netflix Eureka based microservices.  
 Develop k8s helm charts for backbase deployment.  
 Maintain maven files for JAVA package and docker image building.  
 Training DevOps team.  
 Work closely with Backbase Solution Team for deployment and infrastructure architecture.  
 Build scalable deployment for Backbase framework and related system such as ActiveMQ.  
 Successfully integrate ISTIO with Backbase to use all essential features in ISTIO such as mTLS. Probably I'm the first person in the world to do this in production system.
- 11/17 - 03/19 **Assistant Team Lead (System and Database)** [YOMA Bank](#)  
 Oracle and MySql management. Maintain Digital Channel (Mobile Banking) and Finastra's Fusion Middleware
- 08/17 - 11/17 **Database Specialist** [YOMA Bank](#)  
 Oracle and MySql management. Developed Cash Management Portal (YOMA and McKinsey project)
- 04/16 - 08/17 **Senior System Administrator** [Blue Ocean Call Center](#)  
 Manage SIP Gateway, Asterisk, VMware, UCS server, SIP routing.  
 Lead and completed to setup call center for Grab Taxi Myanmar.  
 Developed CRM for CocaCola Myanmar

## Personal Skills



## Other Experiences and Professions

Trainer	<b>Trainer for DevSecOps Engineering</b> Teach and train for DevSecOps Engineering classes	<a href="#">BIM Training</a>
Mentorship	<b>Mentor for CS50</b> Personal mentor for CS50 - Introduction to computer science	<a href="#">Personal</a>
Consultant	<b>ICT Consultant for Election Monitoring</b> Develop data collection software (Web based and SMS). Data synchronization between cloud and local server. This software is used in <ul style="list-style-type: none"><li>• 2015 General Election Myanmar</li><li>• 2017 By-Election Myanmar</li><li>• 2017 General Election Cambodia</li><li>• 2020 General Election Myanmar</li></ul>	<a href="#">NDI, Washinton DC</a>
Cloud	<b>DataCenter Migration</b> Move on-prem datacenter to AWS cloud. Auto scaling EC2 instances using spot instance. Data replication between on-prem and cloud. Asterisk SIP routing from cloud to on-prem servers.	<a href="#">blueplanet.com.mm</a>

## Education

2001 - 2004	<b>Bachelor's Degree in German Language</b> Specialized in German Language	<a href="#">UFL, Mandalay</a>
-------------	---	-------------------------------

## Certifications

08/2022	<b>CKS</b> <i>Certified Kubernetes Security Specialist</i>	<a href="#">cncf.io</a>
07/2022	<b>CKA</b> <i>Certified Kubernetes Administrator</i>	<a href="#">cncf.io</a>
04/2019	<b>LinuxFoundationX - LFS158x</b> <i>Introduction to Kubernetes</i>	<a href="#">edx.org</a>
09/2014	<b>CCNA Cisco Certified Network Associate</b> <i>Routing and Switching</i>	<a href="#">PearsonVUE</a>

## Training

Self-Paced	<b>LFS258 Kubernetes Fundamentals</b> Certified Kubernetes Administrator Program	<a href="#">linuxfoundation.org</a>
09/2018	<b>RedHat Openshift Workshop</b> <i>Openshift setup on-prem with Ansible. Openshift Architecture</i>	<a href="#">RedHat</a>
07/2018	<b>VMware Certified Professional 6.5</b> <i>Datacenter Virtualization</i>	<a href="#">BIM Training, VMware Official</a>
09/2014	<b>Advanced Network Engineering</b> <i>Advanced networking. Routing and switching</i>	<a href="#">RHC Technologies</a>

July 16th, 2022

Sithu Thwin