Hafiz Nor

DevOps Engineer | Certified AWS Solution Architect

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SUMMARY

I spent 7 years sharpening my skills in multiple disciplines to increase velocity, reliability, and quality with a high focus on security. Deep experience with Amazon Web Services, Docker, Clustering Containers, Ci/CD, as well as helping organizations instill DevOps for the modern age.

RESPONSIBILITIES

- Planning, developing, and maintaining CI/CD pipelines.
- Building and Deploying Docker images for implementing microservice from the monolithic architecture.
- Orchestrating Docker container using ECS Fargate Clusters.
- Documenting, provisioning, and maintaining infrastructure in IAC.
- Improving service's TTR (Time To Release).
- Maintaining infrastructure security parameters.
- Maintaining Git workflows for version control (Source Code Management).

EXPERIENCES

Easystore Commerce Sdn Bhd, Selangor - *DevOps Engineer*

January 2022 - PRESENT

- Managed AWS ECS Fargate environment with 3 Clusters, with 40+ Services.
- Managed Serverless environment hosted on AWS Lambda Service with more than 50 Functions running.
- Managed Bitbucket & GitHub repositories with more than 30 repositories.
- Managed AWS ECR (Elastic Container Registries) with more than 100 docker images.
- Managed more than 50 Ci/CD Pipelines for service deployment on Buddy.Works.
- Developing Serverless Microservice with Serverless Framework to offload some infra-related services.
- Deploying infrastructure to multiple regions for added redundancy and latency improvement (China & Taiwan).

- Managed the Database service (SQL & NoSQL) running on AWS RDS (Relational Database Service) and AWS DynamoDB (AWS alternative for MongoDB).
- Documenting, templating, and managing AWS infrastructure in Terraform IAC (Infra-As-Code).
- Managed to reduce CDN (Content-Delivery-Network) service cost from $60,000 to $40,000 after migrating Fastly CDN from Cloudflare.
- Developed TLS management pipeline using Serverless Architecture benefiting more than 10,000 merchants using the applications with free SSL.

Trinity Wizards Sdn Bhd, Selangor - *Sr. Web Developer | Solution Architect*

July 2021 - November 2021
- Developed a Shipping Coordinator Plugin for the Malaysia Airlines Journify Project using PHP.
- Maintaining Github repository for the Jounify Project.
- Reviewing and suggesting code to the Pull Request from Jr. Developer.
- Building Ci/CD pipelines for the source code from Github to be deployed in Adobe Commerce Cloud.
- Consulting and executing POC (Proof-Of-Concept) for the Adobe Cloud deployment flow.

Gemas Lestari Sdn Bhd, Putrajaya - *DevOps Engineer | Sr. Solution Architect*

May 2020 - Jun 2021
- Maintaining 20 over Git repositories for internal projects as well as government projects.
- Developing and maintaining 10 over Ci/CD pipelines using Jenkins.
- Developing data cleaning pipelines using Python and Google Bigquery.
- Analyzing data from the data lake and visualizing the data using Google Data Studio and Datadog.
- Involving in Blockchain Development and Deployment projects using Solidity, AWS CloudFormation, and AWS Hyperledger.
- Mentoring Developers to become DevOps/SysOps engineers in their next career.

Bandoru Holdings Sdn Bhd, Selangor - *Solution Architect | IT Operations Manager*

August 2019 - April 2020

- Developed an online presence of the company by using an E-Commerce Website.
- Engaged with the operation team to improve production process flow.
- Leveraged AI by training the model to recognize the brand, color, and quality of the product to decide the possible selling price.
- Worked with multiple vendors to smoothen the IT operation with a shortage of manpower.
- Assisting the Marketing and Creative department to improve the Quality-Of-Work by upgrading the hardware.
- Leading In-Store customer tracking project to provide analytic data on the conversion.

G-AsiaPacific Sdn Bhd, Selangor - *Sr. Solution Architect*

December 2017 - August 2019

- Consulting over 20 Clients from various sectors on their journey to the Cloud.
- Completed over 10 migrations from on-premise infrastructure to the Cloud. (AWS, GCP).
- Consulting over 5 clients that require Serverless Computing capability.
- Assisting Sales/Pre-Sales department on client queries or technical hands-on.
- Assisting Cost-Reduction Project for multiple clients that require cost optimization on their cloud usage.
- Assisting more than 5 clients onboarding their apps to the cloud from a traditional web hosting panel.

IPServerOne Sdn Bhd, Selangor - *Datacenter Engineer*

July 2017 - December 2017

- Maintaining/Deploying 500 over Bare-Metal Servers in 42-U Racks Datacenter Configuration. (1U-8U)
- Maintaining over 100 Hypervisor nodes. (Proxmox/Hyper-V/V-Sphere)
- Maintaining over 300 network appliances. (Routers/Switches/Firewalls)
- Maintaining/Deploying over 10 NAS/SAN Storage, each unit supports up to 10TB to 40TB (Terra Bytes) of storage space.
- Managing health check routines for all Datacenter Appliances including electrical units. (PDU, Dual Source power supply, Batteries, Backup Generators).
- Responsible to gather all network/server monitoring metrics into a single monitoring tool. (MRTG, PRTG).

IPServerOne Sdn Bhd, Selangor - *System Administrator*

July 2015 - December 2017

- Maintaining more than 500 Virtual Machines and Bare-Metal Servers.
- Troubleshooting Linux/Windows Server environment.
- Maintaining and deploying Hypervisor for Shared Hosting system.
- Maintaining more than 200 email servers and over 10 Anti-Spam/Malware proxy scanners.
- Assisting client with the initial setup of any required Virtual Machines, Operating Systems, Database systems, VPN, as well as Firewalls.

PROJECTS ACCOMPLISHED

TLS Management System

- Client: Easystore Commerce Sdn Bhd
- Duration: 2.5 Months
- My Role: Project Consultant + Development + DevOps Engineer
- Team Size: 5
- Tech/Stack Used: Serverless Framework + Typescript + Turborepo
- Project Summary:
  In search of an alternative CDN for the SaaS platform, we came across Fastly CDN which is quite reputable for availability at a lower cost. The major disadvantage that we face with Fastly is that SSL certificate renewal automation is not available. So we develop a Let's Encrypt SSL creation and renewal automation pipeline using Serverless Framework.

External Webhook Calling System Development

- Client: Easystore Commerce Sdn Bhd
- Duration: 2 Months
- My Role: Project Consultant + Development + DevOps Engineer
- Team Size: 5
- Tech/Stack Used: Serverless Framework + Nodejs + Turborepo

Project Summary:
Easystore provides a SaaS Service where multiple vendors communicate with multiple Marketplaces. When the Marketplace service is down or vice versa, there is no ability to rescue/replay the webhook calls. Hence, we developed a queue system with a failure/retry mechanism to handle external failures and the webhook calls can automatically resume operations once the external failures are resolved.

Implement MySQL Database Read/Write Split

- Client: Easystore Commerce Sdn Bhd
- Duration: 3 Months
- My Role: Project Consultant + DevOps Engineer
- Team Size: 2
- Tech/Stack Used: MySQL RDS + SQL Proxy
- Project Summary:
  Currently, the Core API which lives in Ruby on Rails Framework uses an active record gem package called Makara. Seems like Makara is quite buggy and the maintainers are on hiatus, the last release was in June 2021. In search of a replacement, we came across with database proxy that can handle read/write sharding such as RDSProxy and ProxySQL to be a potential replacement for the Makara.

Monolithic to Microservice Migrations

- Client: Easystore Commerce Sdn Bhd
- Duration: 7 Months
- My Role: Project Consultant + DevOps Engineer
- Team Size: 3
- Tech/Stack Used: AWS ECS Fargate Cluster, Buddy.Works, AWS ECR, Docker, AWS ALB/ELB, Datadog, Terraform.
- Project Summary:
  The whole system is running on an EC2 server which is a VM-based environment and every service is in one place (monolithic). To scale faster and more cost-effective, we pivot our infrastructure into the microservices methodology. With the help of AWS Fargate, we can scale faster and split our services into multiple pipelines so that we could implement Ci/CD or scale the services individually.

Delivery Plugin Development

- Client: Trinity Wizards Sdn Bhd

- Duration: 4 Months

- My Role: Sr. Software Developer, Cloud Consultant

- Team Size: 4

- Tech/Stack Used: Magento2, Adobe Cloud Commerce, PHP.

- Project Summary:
  There are a few plugins needed to be developed from scratch and one of them is the DHL E-Commerce Delivery plugin. With the help of the team, we were able to accomplish a multi-vendor compatible plugin for delivery, label creation, as well as tracking management.

Stable Crypto Currency and DAPP (Decentralized Application) Development

- Client: Gemas Lestari Sdn Bhd

- Duration: 1 Year

- My Role: Solution Architect, Blockchain Developer

- Team Size: 4

- Tech/Stack Used: AWS Hyperledger, Solidity, Hardhat, Truffle.

- Project Summary:
  For the sake of experimenting on how we could help Banking Industries reduce the carbon footprint, especially on the Physical Server Commissioning and Decommissioning. Blockchain Technology with a "Proof-Of-Authority" consensus mechanism could reduce overall carbon footprint as well as reduce power consumption. The chain was built with "Test-Driven Development" or TDD methodology in mind hence, we prepared 2 Testnet, "Called Melaka Testnet and Perak Testnet" for future DAPP development purposes. On top of the Blockchain, we have built a DAPP for buying stocks, paying taxes, EPF contribution as well as a Bridge Contract for Ethereum Chain and BSC Chain.

OTHER SKILLS

- DevOps: Jenkins, Buddy, Terraform, Cloudformation, Docker (Almost Expert)
- Cloud: AWS, GCP, Ali Cloud, DO, Linode, Vultr (Almost Expert)
- Frontend: Nuxt/Next Stack, React, Vue, HTML, Svelte (Moderate)
- Backend: Serverless Framework, FastAPI, LAMP/LEMP Stack, Firebase/Supabase (Almost Expert)
- Blockchain: Solidity, Hardhat, AWS Hyperledger BESU (Moderate)
- Database: MySQL, DynamoDB, MongoDB, OracleDB, Postgres, Redis, (Almost Expert)
- Programming: Nodejs, Typescript, Python, C++, Ruby (Moderate)
- Hypervisors: VMware V-Sphere, Proxmox, OpenStack, MS Hyper-V (Almost Expert).
- Networking: Cisco Systems, HP Systems, Huawei Systems (Moderate).

EDUCATION

Ungku Omar Premier Polytechnic, Perak - *Diploma in Information Technology (Networking Systems)*

2013 - 2015

Focusing on Networking Technology (Cisco Systems) and Programming (OOP)

CERTIFICATIONS

- CCNA - Certified Cisco Network Associate
- ENSA - Certified EC-Council Network Security Administrator
- AWS SA - Certified AWS Solution Architect Associate
- MBOT QT - Certified MBOT Qualified Technician
- AWS TP - Certified AWS Techincal Professional (Digital)
- AWS SysOps - Certified AWS SysOps (In-Progress)
- AWS DevOps - Certified AWS DevOps (In-Progress)
- CKA - Certified Kubernetes Administrator (In-Progress)

AWARDS

- Cisco Netriders - 1st Place (2014)
- WorldSkills Belia Malaysia - 2nd Place (2014)
- Pertandingan Kemahiran Malaysia (PKM) - 2nd Place (2015)
- WorldSkills ASEAN, Hanoi Vietnam - 2nd Place (2015)