

<DEVOPS CLASS>

Belajar DevOps dengan Kubernetes
<k8s> & Amazon Web Services <AWS>

INTRO CLASS COURSE OUTLINE



ONLINE / OFFLINE CLASS
FARIZ IZWAN - 0194292975

Butiran Kelas

Target Durasi: 120 Minit / 2 Jam

Class Room Link:

Apa yang anda akan belajar?

- Kubernetes Orchestration di AWS.
- Membina *Production Ready* PHP,MySQL,nginx on Kubernetes.
- Membina Laravel CI/CD Pipeline dengan Docker & Github Action untuk Kubernetes.
- Cluster Monitoring dengan Kubernetes Dashboard.
- Membina Single-Instance MySQL Stateful Application.

Course Outline

DevOps & AWS:-

- Pengenalan kepada DevOps.
- Dapatkan langganan AWS percuma selama 12 Bulan.
- Pengenalan kepada AWS VPC & EC2.
- Gambaran luas DevOps (*Source code Management, CI/CD, Configuration Management, Containerization, Monitoring*).

Git & Github:-

- Pengenalan Git,Github & Github Action CI/CD.
- Git Branch *strategy*.
- Git Tags & Release.

Docker:-

- Pengenalan ringkas Docker
- Pemasangan Docker Desktop pada *local machine* .
- Asas Docker Image build,tags,dan push.
- *Automate* Docker image build,tags, and push to Docker Hub private/public repo.
- *Automate* Development & Production Build & Release process dengan Github Action.

Kubernetes

- Pengenalan ringkas Kubernetes & Microk8s.
- Pemasangan Microk8s pada Ubuntu 18.04.
- *Deploy* Laravel, PHP-FPM & MySQL containers.
- PHP-FPM Single-Instance containers deployment.
- MySQL Single-Instance Stateful containers deployment.
- Kubernetes Dashboard setup.

Cloudflare:-

- Setup Domain, DNS & SSL.

Security:-

- AWS Security Group configuration.
- Proxy configuration with Nginx.