Journey to Kubernetes
Migration from Docker Swarm

About Me

- DevOps Engineer PT. Gits Indonesia

- Member of openSUSE Project

- Cloud Enthusiast

- Linux User

- Contact me :

    - **didiet@gits.id**

    - **pambudiono@opensuse.org**

Kubernetes

- Kubernetes is an open-source system for automating deployment, scaling, and management of containerized applications.

- Kubernetes comes from the Greek word κυβερνήτης:, which means helmsman or ship pilot.

- People pronounce Kubernetes in a few different ways. Many pronounce it as Koo-ber-nay-tace, while others pronounce it more like Koo-ber-netties.

- Kubernetes is also referred to as k8s, as there are 8 characters between k and s.

- Kubernetes was started by Google and, with its v1.0 release in July 2015, Google donated it to the Cloud Native Computing Foundation (CNCF).
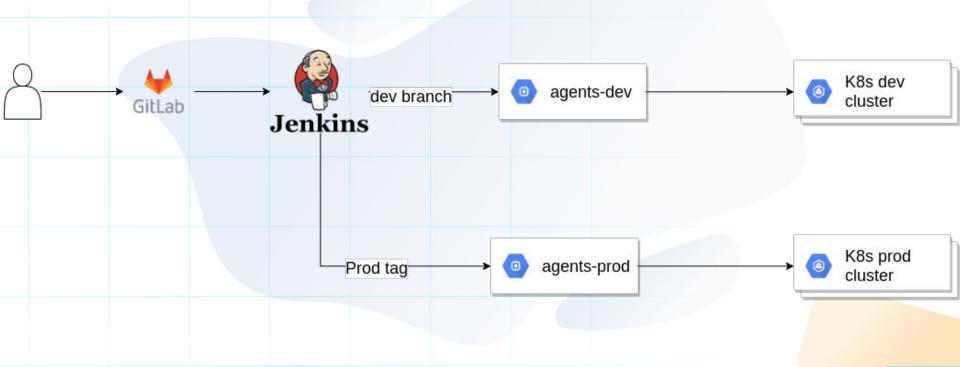
Kubernetes Features

- Automatic bin packing

- Self-healing

- Horizontal scaling

- Service discovery and Load balancing

- Automated rollouts and rollbacks

- Secrets and configuration management

- Storage orchestration

- Batch execution

Our Migration Procedures :

- We use GKE for running our project

- New Project must use Kubernetes Cluster

- Any stable and existing projects will be migrated to Kubernetes

- For pipeline we use Jenkins

Our Dev and Production Pipeline

Migration Challenge :

- Statefull Applications are the most difficult to migrate

- Much easier than using Docker Swarm

- Easy to horizontal scaling

- etc

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