## **GO2 TEAM MEETING #4**

**JAN 30, 2020** 

## A Brief Intro to Kubernetes

- A platform that takes applications and package it into *containers*, and deploy them at scale
- Declarative Imperative APIs -> System components work in parallel to drive to desired state -> automatic recovery
- The control plane is transparent with no hidden internal APIs -> all components interact with the API server -> level edge triggered -> system is more reliable and more extensible

## **KubeAPIs**

mounted as files within a container, or environment variables

- Secret -> sensitive info, passwords, certificates
- ConfigMap -> startup parameters
- DownwardAPI -> pod information

## **Conclusion:**

- The ecosystem is rapidly evolving
- Maintain best practice
- Informed with latest tooling

```
command line interface -> kubectl
build cluster in single host -> minikube
bootstrap min. best-practice cluster -> kubeadm
package manager -> helm
in-cluster component of helm -> tiller
cluster management -> kops oc
```