

Kubernetes from Scratch



Advanced Training - 1 day

About:

Kubernetes from Scratch is a Jetstack workshop based on the fantastic 'Kubernetes the Hard Way' by Kelsey Hightower.

Participants will be taken step-by-step through how to provision a highly-available and secure cluster from the ground-up with detailed explanations of the available configuration parameters for each cluster component and how they affect cluster behaviour.

- ★ Provision compute resources
- ★ Provision a CA and generate TLS certificates
- ★ Generate configuration files
- ★ Bootstrap etcd
- ★ Bootstrap masters
- ★ Bootstrap workers
- ★ Configure kubelet, DNS and Pod network routes
- ★ Smoke test
- ★ Clean

up

The day will finish with an overview of how some of the more common cluster provisioners spin up clusters and how they compare to the method chosen for the workshop.

Participant level:

This course is for those with some working experience of operating Kubernetes in production. You should have an understanding of the Kubernetes components and cloud provider virtual machines & networking. Some knowledge of Public Key Infrastructure is also helpful, and ideally you come from a distributed systems background.

