So, I tried Kubernetes The Hard Way

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Kubernetes = K8s

κυβερνήτης, Greek for "helmsman" or
"pilot" or "governor"

```
> "K#{'ubernete'.length}s"
=> "K8s"
```

https://github.com/kelseyhightower/kubernetes-the-hard-way

About me before Kubernetes The Hard Way

About me before Kubernetes The Hard Way

- I've been working/playing around with K8s together with Seph on my spare time (OT!) for 3 weeks on and off

- I've been able to deploy and manage apps with no prior intimate knowledge on Kubernetes (although I've read some high-level overview)

About me before Kubernetes The Hard Way

- Prior experience with other DevOps tools such as Docker Swarm (and compose) really helped

- Familiarization and experience with concepts like containerization, orchestration, infrastructure-as-code, declarative programming/configuration and others also helped me a lot

- Helm and Kustomize really helped with the application management in K8s

What is Kubernetes The Hard Way?

What is K8s The Hard Way?

- A tutorial designed to be a supplementary learning material for K8s concepts by walking you through deploying a K8s cluster "manually" this means without kubeadm or any other K8s deployment/management tools.

Notes

- Kubernetes the hard way is a supplementary learning material

- You don't need to do Kubernetes the hard way to deploy an app

- You don't need to know every Kubernetes concepts to deploy apps to Kubernetes

- We're not going to be deploying or managing the K8s cluster by ourselves like we did with our Swarm cluster
  - DigitalOcean Managed Kubernetes/GKE/EKS

My Experience
with Kubernetes
The Hard Way

My Experience with Kubernetes The Hard Way

- One day isn't enough

- The hard way is tedious and easy to mess up if you're setting it up by yourself.

- It really made me appreciate K8s management platforms (DigitalOcean, EKS, GKE, etc.)

- This tutorial one of the best tools to start learning about how Kubernetes works

- Follow the instruction, then read the concepts and repeat.

Tips on Learning Kubernetes

- Know and fully realize what Kubernetes is and is suppoused to do

- Start by learning to deploy an app to Kubernetes (minikube).

- Stick to high level concepts at first to maintain your learning momentum

Tips on Learning Kubernetes

- Familiarize yourself with kubectl

- Familiarize yourself with tools such as Kustomize and more importantly Helm and always be aware of what they're doing

- Documentation is your best friend

- Knowing your way around the shell terminal and its tools will make the learning process and execution faster

Links

- https://kubernetes.io/docs/tasks/tools/ (stick to minikube or kind instead of kubeadm to be efficient at learning)

- https://kubernetes.io/docs/concepts/overview/

- https://kustomize.io/

- https://helm.sh/docs/