



# The Kubernetes Book by Nigel Poulton

Austin OWASP Kubernetes Reading  
Group

# Chapter 1

Kubernetes is a *application orchestrator*. It *deploys and manages* applications.

- What is a cloud-native app
- What is a microservices app

# Chapter 1: History of K8s

- Introduced in 2014 and donated to the Cloud Native Computing Foundation
- K8s abstracts underlying infrastructure
- Makes it easy to move applications on and off clouds
- 2016/17 orchestrator wars between Docker Swarm, Mesosphere DCOS, and k8s

# Chapter 1: Kubernetes & Docker

Docker has tools that build and package applications as container images (and runs containers).

It's common practice to use docker for build-time tasks, then use K8s and docker to run them.

K8s container Runtime Interface (CRI) - standardizes the way container runtimes (like Docker) work with k8s

Runtime classes - gVisor or Kata Containers runtimes might be better suited for workload isolation.