#### Section 16: Appendix B - Publishing to **Kubernetes (locally)** 0 / 20 | 2hr 50min

Ш	202. Intro to Appendix B - Kubernetes	
	10min	
	203. No 'depends on' in Kubernetes - using	

Polly to retry

203. No 'depends on' in Kubernetes - us
instead
▶ 13min

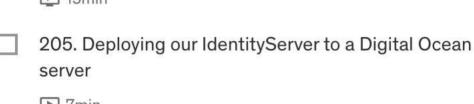


. Adding a GitHub
ge to Docker hub
5min

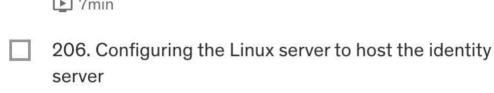


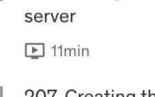






▶ 7min



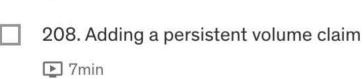


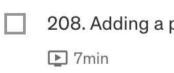




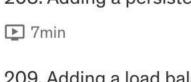


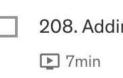
11min
208. Add

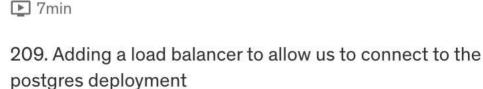












210. Adding a cluster ip our services can use

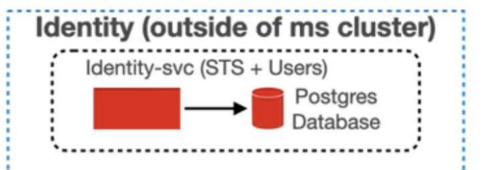


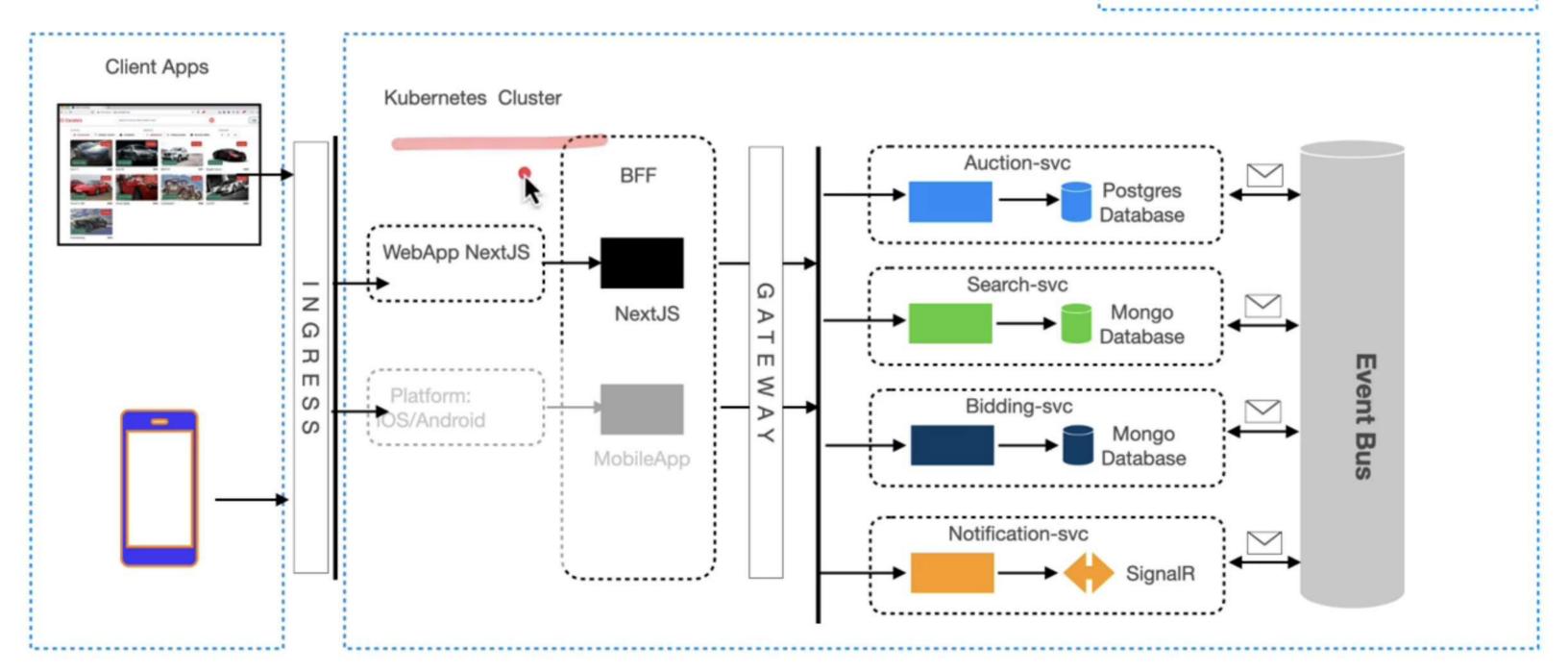
**▶** 5min

3min

211. Creating a deployment for RabbitMQ  7min
212. Creating a Mongodb deployment  5min
213. Creating the auction service deployment  11min
214. Creating the search service deployment  6min
215. Creating the bid service deployment  5min
216. Creating the notification service deployment  4min
217. Creating the gateway service deployment  7min
218. Creating the client app deployment  8min
219. Adding an nginx ingress controller for docker-compose  10min
220. Adding SSL to the ingress controller  10min
221. Fixing Identity Server issues  16min

#### AuctionApp architecture





#### What is Kubernetes

"Kubernetes, or k8s, is an open source platform that automates Linux container operations. It eliminates many of the manual processes involved in deploying and scaling containerized applications,"

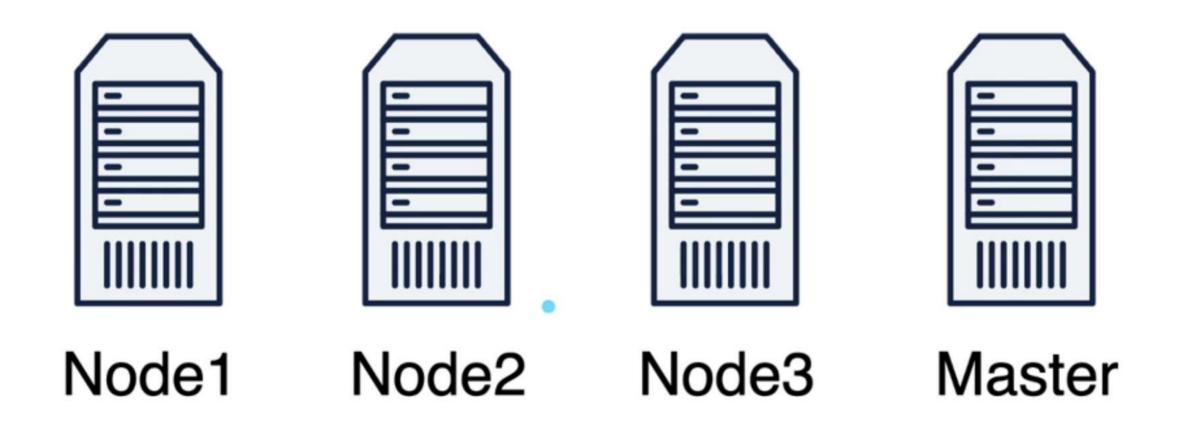
"In other words, you can cluster together groups of hosts running Linux containers, and Kubernetes helps you easily and efficiently manage those clusters."

- Gordon Haff (Red hat technology evangalist)

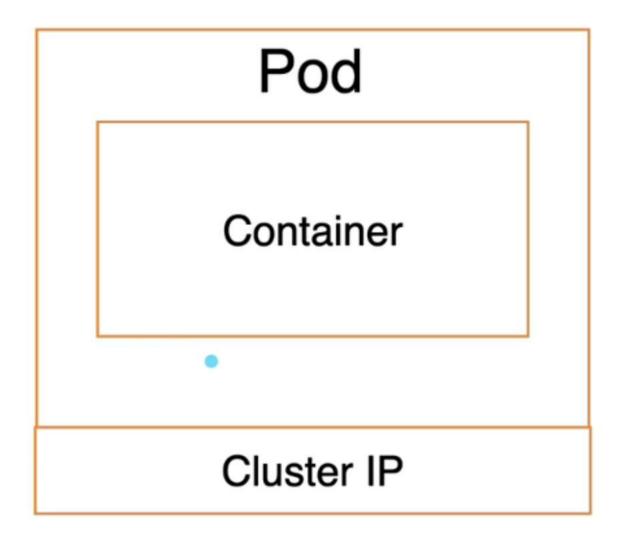
# Why Kubernetes?

- Service discovery and load balancing
- Storage orchestration
- Automated rollouts and rollbacks
- Self healing
- Secret and config management

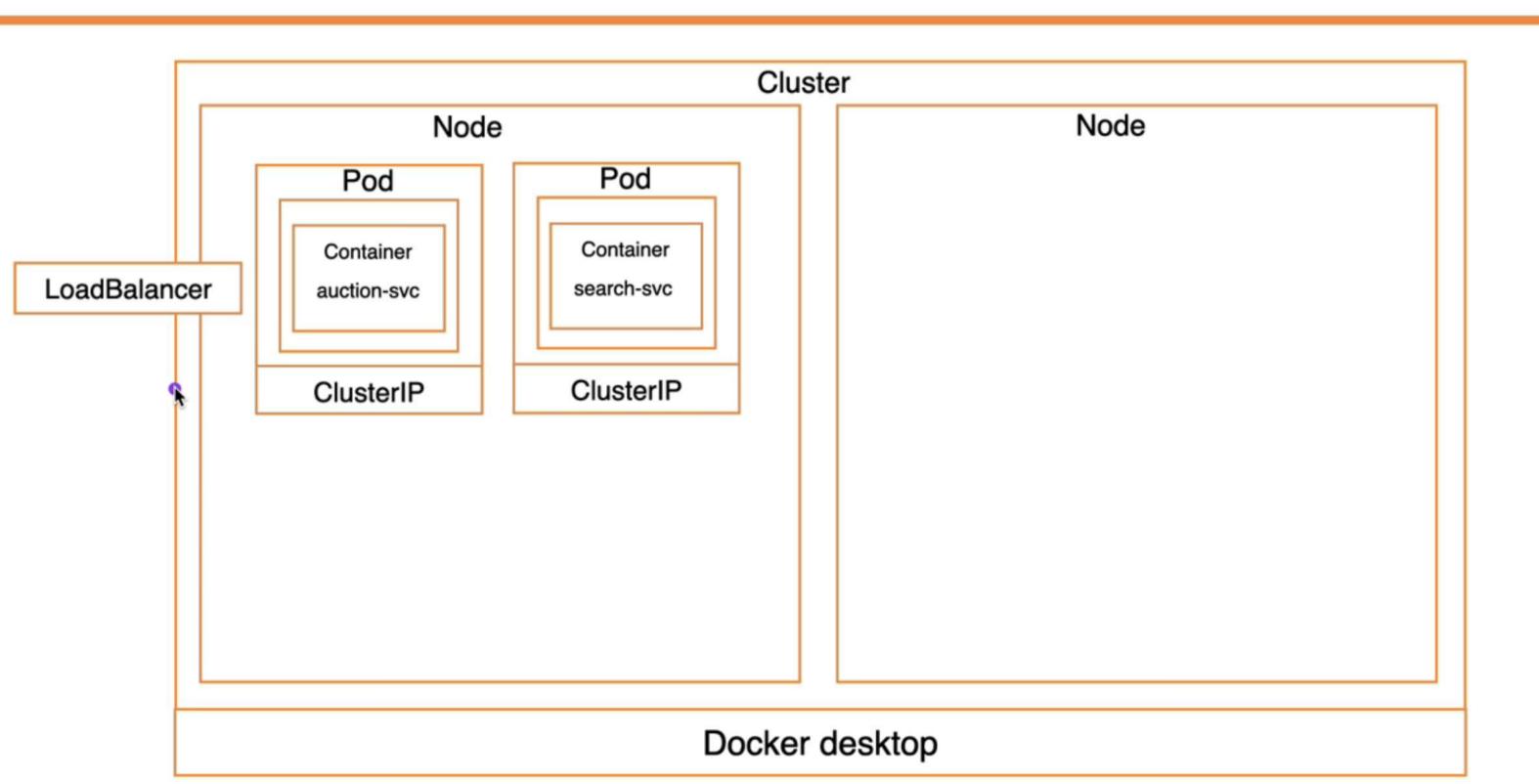
### Kubernetes Cluster



## Service



#### Kubernetes Architecture



#### Manifest

```
apiVersion: v1
kind: Pod
metadata:
  name: my-pod
  labels:
    app: my-app
spec:
  containers:
  - name: my-container
    image: my-image:1.0
```

