

Task 7.1

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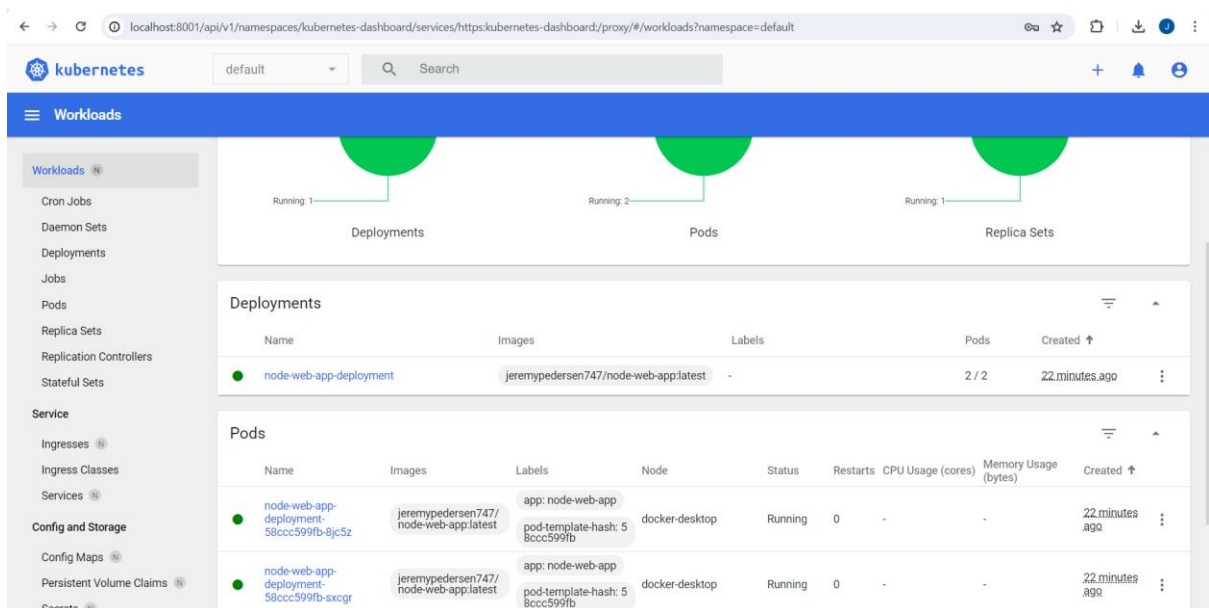
Creating a Kubernetes Cluster


```
C:\temp>kubectl apply -f deployment.yaml
deployment.apps/node-web-app-deployment created

C:\temp>kubectl apply -f service.yaml
service/node-web-app-service created


C:\temp>kubectl get deployments
NAME                    READY   UP-TO-DATE   AVAILABLE   AGE
node-web-app-deployment 2/2      2             2           116s




C:\temp>kubectl get services
NAME            TYPE        CLUSTER-IP   EXTERNAL-IP   PORT(S)    AGE
kubernetes     ClusterIP   10.96.0.1    <none>        443/TCP    125m
node-web-app-service  LoadBalancer 10.96.45.23  localhost     80:30918/TCP 24s
```



 **kubernetes**

default

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Cron Jobs

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Replica Sets

Replication Controllers

Stateful Sets

Service


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Ingress Classes

Services

Config and Storage

Deployments

Name	Images	Labels	Pods	Created
 node-web-app-deployment	jeremypedersen747/node-web-app:latest	-	2 / 2	53 minutes ago

```
C:\temp>kubect1 get nodes -o wide
NAME          STATUS    ROLES    AGE   VERSION   INTERNAL-IP   EXTERNAL-IP   OS-IMAGE             KERNEL-VERSION   CONTAINER-RUNTIME
docker-desktop Ready    control-plane  143m  v1.29.1   192.168.65.3  <none>        Docker Desktop       5.15.146.1-microsoft-standard-WSL2  docker://25.0.3

C:\temp>
```