## **Managing Container Resources**

## **Relevant Documentation**

· Resource Requests and Limits

## **Lesson Reference**

Create a pod with resource requests that exceed aviable node resources.

```
vi big-request-pod.yml
```

```
apiVersion: v1
kind: Pod
metadata:
    name: big-request-pod
spec:
    containers:
    - name: busybox
    image: busybox
    command: ['sh', '-c', 'while true; do sleep 3600; done']
    resources:
        requests:
        cpu: "10000m"
        memory: "128Mi"
```

```
kubectl create -f big-request-pod.yml
```

Check the pod status. It should never leave the Pending state since no worker nodes have enough resources to meet the request.

```
kubectl get pod big-request-pod
```

Create a pod with resource requests and limits.

```
vi resource-pod.yml
```

```
apiVersion: v1
kind: Pod
metadata:
 name: resource-pod
spec:
 containers:
 - name: busybox
   image: busybox
   command: ['sh', '-c', 'while true; do sleep 3600; done']
   resources:
     requests:
       cpu: "250m"
       memory: "128Mi"
     limits:
       cpu: "500m"
       memory: "256Mi"
```

kubectl create -f resource-pod.yml

Check the pod status.

kubectl get pods