Lesson 2 Demo 1: Manual Scheduling of a Pod

This section will guide you to:

* Schedule a pod manually

This lab has one sub-section, namely:

1. Scheduling a pod manually

**Note:** If you don’t have an existing Kubernetes cluster, refer to the Demo 1.1 of Lesson 1.

**Step 1:** Scheduling a pod manually

* Create a scheduler config yaml file

*vi my-scheduler.yaml*

* Add the following code in the *my-scheduler.yaml* file and save it:

*apiVersion: v1*

*kind: ServiceAccount*

*metadata:*

*name: my-scheduler*

*namespace: kube-system*

*---*

*apiVersion: rbac.authorization.k8s.io/v1*

*kind: ClusterRoleBinding*

*metadata:*

*name: my-scheduler-as-kube-scheduler*

*subjects:*

*- kind: ServiceAccount*

*name: my-scheduler*

*namespace: kube-system*

*roleRef:*

*kind: ClusterRole*

*name: system:kube-scheduler*

*apiGroup: rbac.authorization.k8s.io*

*---*

*apiVersion: apps/v1*

*kind: Deployment*

*metadata:*

*labels:*

*component: scheduler*

*tier: control-plane*

*name: my-scheduler*

*namespace: kube-system*

*spec:*

*selector:*

*matchLabels:*

*component: scheduler*

*tier: control-plane*

*replicas: 1*

*template:*

*metadata:*

*labels:*

*component: scheduler*

*tier: control-plane*

*version: second*

*spec:*

*serviceAccountName: my-scheduler*

*containers:*

*- command:*

*- /usr/local/bin/kube-scheduler*

*- --address=0.0.0.0*

*- --leader-elect=false*

*- --scheduler-name=my-scheduler*

*image: gcr.io/my-gcp-project/my-kube-scheduler:1.0*

*livenessProbe:*

*httpGet:*

*path: /healthz*

*port: 10251*

*initialDelaySeconds: 15*

*name: kube-second-scheduler*

*readinessProbe:*

*httpGet:*

*path: /healthz*

*port: 10251*

*resources:*

*requests:*

*cpu: '0.1'*

*securityContext:*

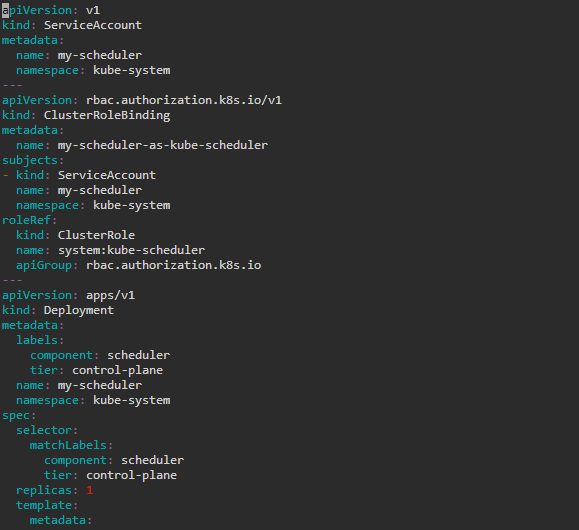
*privileged: false*

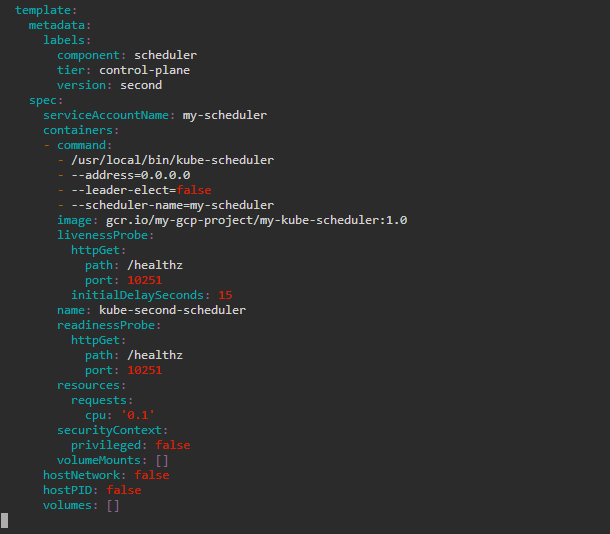
*volumeMounts: []*

*hostNetwork: false*

*hostPID: false*

*volumes: []*

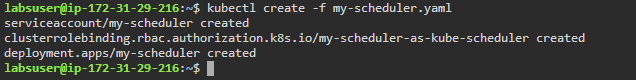




**Note:** Press **Esc** button and enter **:wq** to save and exit the text editor

* Run the scheduler config file to create a custom scheduler

*kubectl create -f my-scheduler.yaml*



* List the running pods of *kube-system* namespace to check whether the custom scheduler pod is running

*kubectl get pods --namespace=kube-system*

