**Demo 3**

**Creating OpenShift Pod**

**Objective:** To create OpenShift Pod

**Tools required:** kubeadm, kubectl

**Prerequisites: kubeadm** and **kubectl** should be installed

**Note 1:** This demo is based on Kubernetes version 1.23

Steps to be followed:

1. Configuring and setting up the Pod files
2. Executing the Pods

**Step 1: Configuring and setting up the Pod files**

1. Create the OpenShift Pod file by using the below command:

**vi openshift1-****pod.yaml**



1. Write the following code in the **pod.yaml** file to create the Pod:

**apiVersion: v1**

**kind: Pod**

**metadata:**

**name: mypod1**

**labels:**

**mycka: round-robin**

**spec:**

**containers:**

**- name: mycontainer**

**image: openshift/hello-openshift**

**ports:**

**- containerPort: 8080**

Text

Description automatically generated

Then, press **Esc,** write **:wq**, and then press enter.

1. Create the Pod by using the following command:

**kubectl create -f openshift1-****pod.yaml**

Text

Description automatically generated

1. Create another Pod file:

**vi openshift2-****pod.yaml**



1. Add the following code to it:

**apiVersion: v1**

**kind: Pod**

**metadata:**

**name: mypod2**

**labels:**

**mycka: round-robin**

**spec:**

**containers:**

**- name: mycontainer**

**image: openshift/hello-openshift**

**ports:**

**- containerPort: 8080**

Text

Description automatically generated

1. Create the Service of **pod1** using the following code:

**kubectl create -f openshift2-****pod.yaml**

Text

Description automatically generated

**Step 2:** **Executing the Pods**

1. To verify the Pods, run the following:

**kubectl get pods -o wide**

A screenshot of a computer

Description automatically generated

**Note:** Note the Cluster IP and port number of both pods.

1. Run the following command and replace the IP of both Pods with your service IP:

**Curl <ClusterIP:8080>**

**Curl <ClusterIP:8080>**

Graphical user interface, text

Description automatically generated