**Demo 4**

**Creating and Configuring the Deployment**

**Objective:** To create and configure a deployment for an application

**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. Creating the Deployment
2. Accessing the Pod

**Step 1: Creating the Deployment**

1. Run the following commands to create the Deployment:

**kubectl create deployment myapp1 --image=docker.io/openshift/hello-openshift** 

1. Verify the Deployment and Pods’ states by using the following commands:

**kubectl get deployment**

**kubectl get pods**

A screenshot of a computer

Description automatically generated with medium confidence

**Step 2: Accessing the Pod**

1. Expose deployment to create service by using the following commands:

**kubectl expose deployment myapp1 --port=8080**

**kubectl get svc**

1. Copy the **ClusterIP** and save it

Graphical user interface, text

Description automatically generated

1. Replace **ClusterIP** with the saved IP and execute the following command to access the Pod:

**curl <ClusterIP>:8080**

Text

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