**Lesson 3 Demo 11**

**Managing Kubernetes Objects**

**Objective:** Learn to manage Kubernetes objects

**Tools required:** kubeadm, kubectl, kubelet, and etcd

**Prerequisites:** kubeadm, kubectl, kubelet, and etcd should be installed

Steps to be followed:

1. Creating a Deployment
2. Verifying the Pod object
3. Verifying the Deployment object
4. Exposing the Deployment
5. Viewing the Service object
6. Fetching and storing the Deployment admin in a text file

**Step 1: Creating a Deployment**

1. Create a Deployment and expose it to view objects using the following command:

**kubectl create deployment** **admin --image=docker.io/ngnix -o yaml > ngin111x.yaml**

A screenshot of a computer

Description automatically generated

**Step 2: Verifying the Pod object**

1. Verify the output of a Pod object using the following command:

**kubectl get pods -o yaml**

Text

Description automatically generated

**Step 3: Verifying the Deployment object**

1. Verify the output of a Deployment object using the following command:

**kubectl get deployments -o yaml**

Text

Description automatically generated

**Step 4: Exposing the Deployment**

1. Expose the Deployment and create a Service for it using the following command:

**kubectl expose deployment admin --port=80**

A screenshot of a computer

Description automatically generated

**Step 5: Viewing the Service object**

1. View the output of a Service object using the following command:

**kubectl get svc -o yaml**

Text

Description automatically generated

**Step 6: Fetching and storing the Deployment admin in a text file**

1. Fetch the **deployment admin** and store it in a text file using the following command:

**kubectl get deployment admin > some.txt**

To view the contents of the **some.txt** file, run the following command:

**cat some.txt**

**A screenshot of a computer

Description automatically generated**