**Lesson 4 Demo 4**

**Understanding the Pod Lifecycle**

**Objective:** To understand the lifecycle of a Pod

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

**Prerequisites:** A Kubernetes cluster must be set up (follow steps of Lesson 2 Demo 1)

Step to be followed:

1. Describing the pod to understand its lifecycle

**Step 1: Describing the pod to understand its lifecycle**

1. Create a namespace named **test**.

**kubectl create namespace test**

**Text

Description automatically generated**

1. Write the following code in the **pod-lifecycle.yaml** file:

**apiVersion: v1**

**kind: Pod**

**metadata:**

**name: webserver**

**namespace: test**

**labels:**

**app: nginx**

**tier: front**

**version: v1**

**env: production**

**spec:**

**containers:**

**- name: nginx**

**image: nginx**

**ports:**

**- containerPort: 80**

**Text

Description automatically generated**

1. Create **Ngnix** pod by using the following command:

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

Text

Description automatically generated

1. Enter the following command to describe the specifics of a Pod:

**kubectl describe pod webserver -n test**

**Text

Description automatically generated**

**A screenshot of a computer

Description automatically generated with medium confidence**

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| --- |
| Note:This command helps in understanding the life cycle of the Pod **webserver** created in step 1.3. Examine the events section in the screenshot above. |