**Lesson 7 Demo 3**

**Secret as Volume**

**Objective:** To create a secret to use it as secret as volume

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

**Prerequisites:** Kubernetes cluster must be set up with kubeadm, kubectl, and kubelet installed and tested. Some Pods, Containers, Services, etc. should be in place so that troubleshooting can be done on the existing cluster and its contents.

Steps to be followed:

1. Creating a secret to use it as secret as volume
2. Creating a Pod to map secret as volume in the secret-volume.yaml file
3. Creating a Pod by using the following command
4. Accessing the Pod by executing the following command
5. Accessing the Container fetch mounted data by the following command

**Step 1:** **Creating a secret to use it as secret as volume**

**kubectl create secret generic mysecret --from-literal='dbpass'='simplilearn'**

Text

Description automatically generated

**Step 2: Creating a Pod to map secret as volume in the secret-volume.yaml file**

**vi secret-volume.yaml**

apiVersion: v1

kind: Pod

metadata:

name: secret-pod

spec:

containers:

- name: security-container

image: nginx

volumeMounts:

# name must match the volume name below

- name: secret-volume

mountPath: /etc/secret-volume

# The secret data is exposed to Containers in the Pod through a Volume.

volumes:

- name: secret-volume

secret:

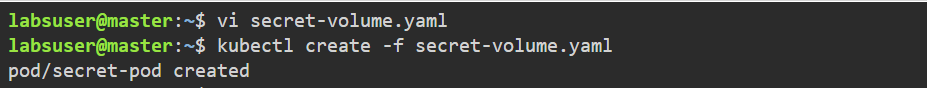
secretName: mysecret

Text

Description automatically generated

**Step 3: Creating a Pod by using the following command**

kubectl create -f secret-volume.yaml



**Step 4: Accessing the Pod by executing the following command**

kubectl exec -it secret-pod bash

**Step 5: After accessing the Container fetch mounted data by the following command**

df -hT

Text

Description automatically generated