Kubernetes Assignment – 2

1. Create a Pod using a YAML Manifest

```
master@master-vm:~/Desktop$ nano nginx-pod.yaml
master@master-vm:~/Desktop$ kubectl apply -f nginx-pod.yaml
pod/nginx-pod configured
master@master-vm:~/Desktop$ kubectl get pods
NAME         READY   STATUS      RESTARTS      AGE
nginx-pod    1/1     Running     1 (22m ago)   18h
nginxpod     0/1     Completed   0             18h
master@master-vm:~/Desktop$ kubectl delete -f nginx-pod.yaml
pod "nginx-pod" deleted
master@master-vm:~/Desktop$
```

2. Create and use a ConfigMap

```
master@master-vm:~/Desktop$ minikube start
😄  minikube v1.35.0 on Ubuntu 20.04
✨  Using the docker driver based on existing profile
👍  Starting "minikube" primary control-plane node in "minikube" cluster
🚜  Pulling base image v0.0.46 ...
🏃  Updating the running docker "minikube" container ...
🐳  Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...
🔎  Verifying Kubernetes components...
    ▪ Using image gcr.io/k8s-minikube/storage-provisioner:v5
🌟  Enabled addons: default-storageclass, storage-provisioner

❗  /usr/bin/kubectl is version 1.28.15, which may have incompatibilities with Kubernetes 1.32.0.
    ▪ Want kubectl v1.32.0? Try 'minikube kubectl -- get pods -A'
🏄  Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
master@master-vm:~/Desktop$ kubectl create secret generic db-secret --from-literal=DB_USER=admin --from-literal=DB_PASS=password123
secret/db-secret created
master@master-vm:~/Desktop$ kubectl get secrets
NAME                  TYPE                             DATA   AGE
db-secret             Opaque                           2      22s
my-registry-secret    kubernetes.io/dockerconfigjson   1      18h
master@master-vm:~/Desktop$ kubectl describe secret db-secret
Name:         db-secret
Namespace:    default
Labels:       <none>
Annotations:  <none>

Type:  Opaque

Data
====
DB_PASS:  11 bytes
DB_USER:  5 bytes
```