# Lab 7

#### Q1:

```
controlplane $ kubectl get namespaces > /opt/namespaces
controlplane $ cat /opt/namespaces
NAME STATUS AGE
default Active 35d
earth Active 2m22s
kube-node-lease Active 35d
kube-public Active 35d
kube-system Active 35d
controlplane $
```

#### **Q2**:

```
salmamyoussef@salmamyoussef-Satellite-C55-B:~$ kubectl create serviceaccount neptune-sa-v2 -n pluto serviceaccount/neptune-sa-v2 created salmamyoussef@salmamyoussef-Satellite-C55-B:~$ kubectl get serviceaccounts -n pluto NAME SECRETS AGE default 0 8h neptune-sa-v2 0 15s salmamyoussef@salmamyoussef-Satellite-C55-B:~$
```

### Q3:

```
salmamyoussef@salmamyoussef-Satellite-C55-B:~$ kubectl get configmaps -n pluto
                       DATA AGE
cm-3392845
                                2m21s
kube-root-ca.crt
salmamyoussef@salmamyoussef-Satellite-C55-B:-$ kubectl describe configmaps ^C salmamyoussef@salmamyoussef-Satellite-C55-B:-$ kubectl describe configmaps cm-3392845 -n pluto
                 cm-3392845
Namespace:
                pluto
Labels: <none>
Annotations: <none>
Data
DB_PORT:
3306
DB_HOST:
sql322.mycompany.com
DB_NAME:
SQL3322
BinaryData
====
Events: <none>
salmamyoussef@salmamyoussef-Satellite-C55-B:~$
```

#### **Q4**:

```
! service-lab7.yaml U X ! pod-lab7.yaml 1, U
 ! service-lab7.yaml > {} metadata > ™ name
       io.k8s.api.core.v1.Service (v1@service.json)
       apiVersion: v1
       kind: Service
       metadata:
  4
         name: project-plt-6cc-svc
         namespace: pluto
       spec:
         type: ClusterIP
         ports:
           - protocol: TCP
             port: 3333
 10
             targetPort: 80
 11
 12
         selector:
 13
         name: pod-to-be-exposed
```

## **Q5**:

```
Editor Tabl + 52min Diversion: V1
kind: PersistentVolume
metadata:
name: earth-project-earthflower-pv
spec:
capacity:
storage: 26i
accessModes:
- ReadWriteOnce
hostPath:
path: "/Volumes/Data"
persistentVolumeReclaimPolicy: Retain
```

```
Editor Tobl • 52 min

BjlVersion: v1
kind: PersistentVolumeClaim
metadata:
name: earth-project-earthflower-pvc
namespace: earth
spec:
accessModes:
ReadWriteOnce
resources:
requests:
storage: 26i

"pvc-lab7.yaml" 11L, 199C

1,1 All
controlplane $ kubectl get pvc -n earth
NAME
STATUS VOLUME

CAPACITY ACCESS MODES STORAGECLAS
S AGE
```

earth-project-earthflower-pv

RWO

earth-project-earthflower-pvc Bound 15s

```
ov-earth.yaml U
                                        ! nginx-deployment.yaml 1, U
                                                                      ! dep-lab7.yaml 1, U X
dep-lab7.yaml > { } spec > { } template > { } spec > [ ] containers > { } 0 > \stackrel{\text{left}}{=} name
    io.k8s.api.apps.v1.Deployment (v1@deployment.json)
    apiVersion: apps/v1
    kind: Deployment
      name: project-earthflower
    spec:
       template:
         spec:
           containers:
           - name: httpd
            image: httpd:2.4.41-alpine
            volumeMounts:
             - mountPath: /tmp/project-data
                 name: volume
             persistentVolumeClaim:
               claimName: earth-project-earthflower-pvc
```