

Task

Task-1

1. Create a pod using the imperative command and use nginx as the image

```
Bhakti@LAPTOP-DNC3NQI0 MINGW64 /d/Github/CKA2024 (main)
● $ k run nginx --image=nginx
pod/nginx created

Bhakti@LAPTOP-DNC3NQI0 MINGW64 /d/Github/CKA2024 (main)
● $ k get pod
```

NAME	READY	STATUS	RESTARTS	AGE
mydb-94ffb5c5-nqx4q	1/1	Running	0	40h
nginx	0/1	ContainerCreating	0	4s
nginx-deploy-7d54cf5979-x4j7t	1/1	Running	0	47h
redis	1/1	Running	0	40h
redis-3	1/1	Running	0	39h
redis-new	1/1	Running	0	40h

Task2

1. Create the YAML from the nginx pod created in task 1

```
Bhakti@LAPTOP-DNC3NQI0 MINGW64 /d/Github/CKA2024/day-07 (main)
$ k get pod nginx -o yaml > nginx_pod.yaml
●
Bhakti@LAPTOP-DNC3NQI0 MINGW64 /d/Github/CKA2024/day-07 (main)
● $ cat nginx_pod.yaml
apiVersion: v1
kind: Pod
metadata:
  creationTimestamp: "2024-07-13T09:30:12Z"
  labels:
    run: nginx
  name: nginx
  namespace: default
  resourceVersion: "222378"
  uid: 9f077a64-4ac0-4af0-bdbb-4ef1ca69ac6c
spec:
  containers:
  - image: nginx
    imagePullPolicy: Always
    name: nginx
    resources: {}
    terminationMessagePath: /dev/termination-log
    terminationMessagePolicy: File
    volumeMounts:
    - mountPath: /var/run/secrets/kubernetes.io/serviceaccount
      name: kube-api-access-ldlvq
      readOnly: true
  dnsPolicy: ClusterFirst
  enableServiceLinks: true
```

2. Update the pod name in the YAML

```
Bhakti@LAPTOP-DNC3NQI0 MINGW64 /d/Github/CKA2024/day-07 (main)
```

```
$ cat nginx_pod.yaml
apiVersion: v1
kind: Pod
metadata:
  #creationTimestamp: "2024-07-13T09:30:12Z"
  labels:
    run: nginx
  name: nginx-edited  ## Change this to the new name
  #namespace: default
  #resourceVersion: "222378"
  #uid: 9f077a64-4ac0-4af0-bdbb-4ef1ca69ac6c
spec:
  containers:
  - image: nginx
    imagePullPolicy: Always
    name: nginx
    ports:
      - containerPort: 80
```

```
Bhakti@LAPTOP-DNC3NQI0 MINGW64 /d/Github/CKA2024/day-07 (main)
```

```
• $ k get pod
NAME                                READY   STATUS    RESTARTS   AGE
mydb-94ffb5c5-nqx4q                1/1     Running   0           41h
nginx-deploy-7d54cf5979-x4j7t      1/1     Running   0           47h
nginx-edited                        1/1     Running   0           6m11s
redis                               1/1     Running   0           41h
redis-3                             1/1     Running   0           40h
redis-new                           1/1     Running   0           40h
```

3. Use that YAML to create a new pod with the name nginx-new.

```
Bhakti@LAPTOP-DNC3NQI0 MINGW64 /d/Github/CKA2024/day-07 (main)
```

```
• $ k apply -f nginx_pod.yaml
pod/nginx-new created
```

```
Bhakti@LAPTOP-DNC3NQI0 MINGW64 /d/Github/CKA2024/day-07 (main)
```

```
• $ k get pod
NAME                                READY   STATUS    RESTARTS   AGE
mydb-94ffb5c5-nqx4q                1/1     Running   0           41h
nginx-deploy-7d54cf5979-x4j7t      1/1     Running   0           2d
nginx-edited                        1/1     Running   0           16m
nginx-new                           1/1     Running   0           13s
```

```
Bhakti@LAPTOP-DNC3NQI0 MINGW64 /d/Github/CKA2024/day-07 (main)
```

```
• $ cat nginx_pod.yaml
apiVersion: v1
kind: Pod
metadata:
  #creationTimestamp: "2024-07-13T09:30:12Z"
  labels:
    run: nginx
  name: nginx-new  ## Change from nginx-edited to nginx-new
  #namespace: default
  #resourceVersion: "222378"
  #uid: 9f077a64-4ac0-4af0-bdbb-4ef1ca69ac6c
spec:
  containers:
  - image: nginx
    imagePullPolicy: Always
    name: nginx
    ports:
      - containerPort: 80
```

Task3

1. Apply the below YAML and fix the errors, including all the commands that you run during the troubleshooting and the error message

```
apiVersion: v1
kind: Pod
metadata:
  labels:
    app: test
    name: redis
spec:
  containers:
  - image: rediss
    name: redis
```

Bhakti@LAPTOP-DNC3NQI0 MINGW64 /d/Github/CKA2024/day-07 (main)

- \$ k get pod

NAME	READY	STATUS	RESTARTS	AGE
mydb-94ffb5c5-nqx4q	1/1	Running	0	41h
nginx-deploy-7d54cf5979-x4j7t	1/1	Running	0	2d
nginx-edited	1/1	Running	0	22m
nginx-new	1/1	Running	0	6m55s
redis	0/1	ErrImagePull	0	7s

Bhakti@LAPTOP-DNC3NQI0 MINGW64 /d/Github/CKA2024/day-07 (main)

- \$ cat nginx_pod.yaml

```
apiVersion: v1
kind: Pod
metadata:
  labels:
    app: test
    name: redis
spec:
  containers:
  - image: redis    ## Change from rediss to redis
    name: redis
```

Bhakti@LAPTOP-DNC3NQI0 MINGW64 /d/Github/CKA2024/day-07 (main)

- \$ k get pod

NAME	READY	STATUS	RESTARTS	AGE
mydb-94ffb5c5-nqx4q	1/1	Running	0	41h
nginx-deploy-7d54cf5979-x4j7t	1/1	Running	0	2d
nginx-edited	1/1	Running	0	32m
nginx-new	1/1	Running	0	16m
redis	1/1	Running	0	9m49s