## **Building Self-Healing Pods with Restart Policies**

## **Relevant Documentation**

Restart Policy

## **Lesson Reference**

Create a pod with the Always restart policy that completes after a few seconds.

```
vi always-pod.yml
```

```
apiVersion: v1
kind: Pod
metadata:
   name: always-pod
spec:
   restartPolicy: Always
   containers:
   - name: busybox
   image: busybox
   command: ['sh', '-c', 'sleep 10']
```

```
kubectl create -f always-pod.yml
```

Check the pod status. You should see it restarting after every 10-second completion.

```
kubectl get pod always-pod
```

Create a pod with the OnFailure restart policy.

```
vi onfailure-pod.yml
```

```
apiVersion: v1
kind: Pod
metadata:
   name: onfailure-pod
spec:
   restartPolicy: OnFailure
   containers:
   - name: busybox
    image: busybox
   command: ['sh', '-c', 'sleep 10']
```

```
kubectl create -f onfailure-pod.yml
```

Check the pod status. Note that the pod does not restart because it completed successfully.

```
kubectl get pod onfailure-pod
```

Delete, modify, and recreate the pod so that it fails.

```
vi onfailure-pod.yml
```

```
apiVersion: v1
kind: Pod
metadata:
   name: onfailure-pod
spec:
   restartPolicy: OnFailure
   containers:
   - name: busybox
   image: busybox
   command: ['sh', '-c', 'sleep 10; this is a bad command that will fail']
```

```
kubectl create -f onfailure-pod.yml
```

Check the pod status. Note that the pod restarts because it exited with an error code.

```
kubectl get pod onfailure-pod
```

Create a pod with the Never restart policy that completes after a few seconds.

```
vi never-pod.yml
```

```
apiVersion: v1
kind: Pod
metadata:
   name: never-pod
spec:
   restartPolicy: Never
   containers:
   - name: busybox
   image: busybox
   command: ['sh', '-c', 'sleep 10; this is a bad command that will fail']
```

```
kubectl create -f never-pod.yml
```

Check the pod status. You should see that it does not restart after completing.

```
kubectl get pod never-pod
```