# Question 1 of 10

What is	s contained	within a Repli	caSet's YAML	file that spe	cifies how to	create the
pods?						

pod template							
Question 2 of 10							
Which of these statements is true?							
O Deployments are suitable for stateful applications.							
StatefulSets treat all pods interchangeably.							
A PV Provisioner can assign storage to StatefulSet pods.							
ReplicaSets cannot exist outside of a deployment.							
Question 3 of 10							
Query the ReplicaSets. How many asteroid pods are currently desired?							
o							
inux@ip-10-102-3-90:~\$ kubectl AME steroid-deployment-697f8fb8fb inux@ip-10-102-3-90:~\$ ■	get rs DESIRED 0	CURRENT 0	READY 0	AGE 3m44s			
Question 4 of 10							

What is the name of the image used in the asteroids deployment?

my-asteroid-image

```
linux@ip-10-102-3-90:~$ kubectl describe deploy asteroid-deployment
                        asteroid-deployment
Name:
Namespace:
                        default
CreationTimestamp:
                        Sun, 06 Nov 2022 16:11:41 +0000
Labels:
                        deployment.kubernetes.io/revision: 1
Annotations:
                        run=asteroid-app
Selector:
                        0 desired | 0 updated | 0 total | 0 available | 0 unavailable
Replicas:
StrategyType:
MinReadySeconds:
                        RollingUpdate
RollingUpdateStrategy: 25% max unavailable, 25% max surge
od Template:
 Labels: run=asteroid-app
   asternid-container
                  my-asteroid-image
   Image:
                  8080/TCP
    Host Port:
                  0/TCP
    Environment:
    Mounts:
  Volumes:
```

## Question 5 of 10

What flag do you pass to 'kubectl scale' to indicate the number of pods you want to be running?

```
--replicas
```

#### Question 6 of 10

Increase the desired number of pods to ONE, wait until it is ready, and use cURL to access the asteroid container. What is the token?

```
080a24
```

```
linux@ip-10-102-3-90:~$ kubectl scale --replicas=1 deployment asteroid-deployment
deployment.apps/asteroid-deployment scaled
linux@ip-10-102-3-90:~$
linux@ip-10-102-7-127:~$ kubectl get svc
                           TYPE
                                          CLUSTER-IP
10.152.183.1
NAME
                                                              EXTERNAL-IP
                                                                                PORT(S)
                                                                                                     AGE
                           ClusterIP
                                                                                443/TCP
                                                                                                     625d
kubernetes
                                                              <none>
deployment-service
                          NodePort
                                          10.152.183.71
                                                              <none>
                                                                               8080:30000/TCP
                                                                                                     8m22s
statefulset-service
                           ClusterIP
                                                               <none>
                                                                                                     8m20s
linux@ip-10-102-7-127:~$
linux@ip-10-102-7-127:~$
Good job, you scaled the deployment and connected to the Nginx container!
If your token does not appear, please wait until all pods are running.
Your token is...
080a24
inux@ip-10-102-7-127:~$
```

# Question 7 of 10

There is a StatefulSet running on the cluster. Query its configuration. What label is given to the pods it creates?

```
run: nginx2
```

#### Question 8 of 10

What flag can be passed when removing pods, to only delete those with a certain label?

```
±I
```

# Question 9 of 10

Complete the final three tasks. Which pod is restarted last?

```
my-statefulset-2
```

## Question 10 of 10

What was the status of the 'my-statefulset-0' pod when the scheduler began restarting the 'my-statefulset-1' pod?

```
Running
```

```
linux@ip-10-102-7-127:~$ screen -S backScreen
linux@ip-10-102-7-127:~$ kubectl get po -w -l run=nginx2
NAME
                  READY
                           STATUS
                                    RESTARTS
                                               AGE
my-statefulset-0
                   1/1
                           Running
                                    0
                                                16m
                  1/1
                                                15m
my-statefulset-1
                           Running
                                    0
                  1/1
                                    0
                                                14m
my-statefulset-2
                          Running
```

Press **Ctrl + A + D** to go back to main terminal

```
[detached from 31952.backScreen]
linux@ip-10-102-7-127:~$ ■
```

```
Delete these sts pods
```

```
linux@ip-10-102-7-127:~$ kubectl delete po -l run=nginx2
pod "my-statefulset-0" deleted
pod "my-statefulset-1" deleted
pod "my-statefulset-2" deleted
linux@ip-10-102-7-127:~$ ■
```

# Press screen -r backScreen to switch to background terminal

linux@ip-10-102-7-127:~\$ screen -r backScreen∎

The status of sts pods by timeline								
linux@ip-10-102-7-	127:~\$	kubectl get po -w	-l run=nginx2					
NAME	READY	STATUS RESTAR	rs age					
my-statefulset-0	1/1	Running 0	16m					
my-statefulset-1	1/1	Running 0	15m					
my-statefulset-2	1/1	Running 0	14m					
my-statefulset-0	1/1	Terminating 0	17m					
my-statefulset-1	1/1	Terminating 0	16m					
my-statefulset-2	1/1	Terminating 0	15m					
my-statefulset-0	0/1	Terminating 0	17m					
my-statefulset-1	0/1	Terminating 0	16m					
my-statefulset-2	0/1	Terminating 0	15m					
my-statefulset-2	0/1	Terminating 0	15m					
my-statefulset-2	0/1	Terminating 0	15m					
my-statefulset-1	0/1	Terminating 0	17m					
my-statefulset-1	0/1	Terminating 0	17m					
my-statefulset-0	0/1	Terminating 0	18m					
my-statefulset-0	0/1	Terminating 0	18m					
my-statefulset-0	0/1	Pending 0	0s					
my-statefulset-0	0/1	Pending 0	0s					
my-statefulset-0	0/1	ContainerCreating	g 0	0s				
my-statefulset-0	0/1	ContainerCreating	9 0	1s				
my-statefulset-0	1/1	Running	0	1s				
my-statefulset-1	0/1	Pending	0	0 s				
my-statefulset-1	0/1	Pending	0	0s				
my-statefulset-1	0/1	ContainerCreating	g 0	0s				
my-statefulset-1	0/1	ContainerCreating	g 0	1s				
my-statefulset-1	1/1	Running	0	2s				
my-statefulset-2	0/1	Pending	0	0s				
my-statefulset-2	0/1	Pending	0	0s				
my-statefulset-2	0/1	ContainerCreating		0s				
my-statefulset-2	0/1	ContainerCreating		2s				
my-statefulset-2	1/1	Running	0	3s				