













```
mostafa@mostafa-Predator:~$ kubectl get replicaset
No resources found in default namespace.
mostafa@mostafa-Predator:~$ kubectl get replicaset | wc -l
No resources found in default namespace.
0
mostafa@mostafa-Predator:~$
```



```
home > mostafa > Desktop > iti > Kubernetes > ! replicaset2.yaml > {} spec > # replicas
       apiVersion: apps/vl
  1
       kind: ReplicaSet
  2
      metadata:
  3
         name: replicaset-1
  4
  5
       spec: # awl 7aga tbd2 tt8ir f no3 l resource
         replicas: 4
  6
         selector:
  7
           matchLabels:
  8
             app: nginx
  9
         template:
 10
           metadata:
 11
             labels:
 12
 13
              app: nginx
           spec:
 14
 15
             containers:
             image: busybox
 16
               name: bbx-containers
 17
```

```
nostafa@mostafa-Predator:~$ kubectl apply -f replicaset1.yaml
replicaset.apps/replica-set-1 configured
nostafa@mostafa-Predator:~$ kubectl get replicasets
NAME DESIRED CURRENT READY AGE
replica-set-1 5 5 0 7m17s
```

### Q10,11

Still 5 pods, this is because pods are managed by the deployment not the replica set.

### Q12

```
nostafa@mostafa-Predator:~
                                                    $ kubectl get deploy
NAME
                    READY
                                          AVAILABLE
                                                       AGE
                            UP-TO-DATE
nginx-deployment
                    1/1
                            1
                                          1
                                                       61m
                                                    $ kubectl get rs
mostafa@mostafa-Predator:~/Des
NAME
                                DESIRED
                                          CURRENT
                                                     READY
                                                              AGE
nginx-deployment-7f9ff58b4b
                                1
                                          1
                                                     1
                                                              62m
nginx-replicaset
                                1
                                          1
                                                     1
                                                              82m
replica-set-1
                                3
                                          3
                                                     0
                                                              44h
replicaset-1
                                5
                                          5
                                                     0
                                                              8m28s
nostafa@mostafa-Predator:~/Desktop/iti/Kubernetes$
```

## Q13

```
$ kubectl get rs
mostafa@mostafa-Predator:~/De
NAME
                                DESIRED
                                           CURRENT
                                                      READY
                                                              AGE
deploment-1-556bc9699d
                                3
                                           3
                                                      0
                                                              24s
deployment-1-8685c55bc6
                                3
                                           3
                                                      0
                                                              6m5s
deployment-13-8685c55bc6
                                3
                                           3
                                                      0
                                                              5m19s
nginx-deployment-7f9ff58b4b
                                1
                                           1
                                                      1
                                                               72m
nginx-replicaset
                                1
                                           1
                                                      1
                                                              93m
replica-set-1
                                3
                                           3
                                                      0
                                                              44h
                                5
                                                      0
replicaset-1
                                                              19m
nostafa@mostafa-Predator:~
                                           iubernetes$ kubectl get deploy
NAME
                    READY
                             UP-TO-DATE
                                           AVAILABLE
                                                        AGE
deploment-1
                    0/3
                                           0
                                                        34s
                             3
                    0/3
                             3
                                           0
                                                        6m15s
deployment-1
deployment-13
                    0/3
                                                        5m29s
                             3
                                           0
                    1/1
                             1
nginx-deployment
                                           1
                                                        72m
```

## Q15

```
nostafa@mostafa-Predator:-
                                                   $ kubectl apply -f deployment2.yaml
deployment.apps/deploment-1 configured
                                                   $ kubectl get deploy
NAME
                   READY
                            UP-TO-DATE
                                         AVAILABLE
                                                      AGE
deploment-1
                   1/3
                                                      12m
                            2
                                         1
deployment-1
                   0/3
                                         0
                                                      18m
deployment-13
                   0/3
                            3
                                         0
                                                      17m
                   1/1
                                                      85m
nginx-deployment
nostafa@mostafa-Predator:
```

# Q16

Events:				
Туре	Reason	Age	From	Message
Normal	ScalingReplicaSet	<b>1</b> 8m	deployment-controller	Scaled up replica set deploment-1-556bc9699d to 3
Normal	ScalingReplicaSet	5m25s	deployment-controller	Scaled up replica set deploment-1-75775fd9fd to 1
Normal	ScalingReplicaSet	5m22s	deployment-controller	Scaled down replica set deploment-1-556bc9699d to 2 from 3
Normal	ScalingReplicaSet	5m22s	deployment-controller	Scaled up replica set deploment-1-75775fd9fd to 2 from 1
Normal	ScalingReplicaSet	5m18s	deployment-controller	Scaled down replica set deploment-1-556bc9699d to 1 from 2
Normal	ScalingReplicaSet	5m18s	deployment-controller	Scaled up replica set deploment-1-75775fd9fd to 3 from 2
Normal	ScalingReplicaSet	5m15s	deployment-controller	Scaled down replica set deploment-1-556bc9699d to 0 from 1

Rolling Deployment: replace pods running busybox with nginx. Kubectl rollout undo deploymentname



