

Ahmed saeed shaaban

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K L L K C O D A PLUS

Areas Account Creator Logout

11 min

Playground

You reached THE END of this scenario

RESTART SCENARIOS FEEDBACK

Editor Tab 1

controlplane \$ kubectl run redis --image=redis --restart=never
pod/redis created
controlplane \$ touch nginx-pod.yaml
controlplane \$ cat nginx-pod.yaml
controlplane \$ vim nginx-pod.yaml
controlplane \$ kubectl apply -f nginx-pod.yaml
pod/nginx created
controlplane \$ kubectl get pods
NAME READY STATUS RESTARTS AGE
nginx 0/1 ImagePullBackOff 0 37s
redis 1/1 Running 0 3m21s
controlplane \$ kubectl get pods
NAME READY STATUS RESTARTS AGE
nginx 0/1 ErrImagePull 0 50s
redis 1/1 Running 0 3m34s
controlplane \$ kubectl get pod nginx -o wide
NAME READY STATUS RESTARTS AGE IP NODE NOMINATED NODE READINESS GATES
nginx 0/1 ImagePullBackOff 0 87s 192.168.0.7 controlplane <none> <none>
Error from server (BadRequest): container "nginx" in pod "nginx" is waiting to start: trying and failing to pull image
controlplane \$ vim nginx-pod.yaml
controlplane \$ kubectl apply -f nginx-pod.yaml
pod/nginx configured
controlplane \$ kubectl get pods
NAME READY STATUS RESTARTS AGE
nginx 1/1 Running 0 3m7s
redis 1/1 Running 0 5m51s
controlplane \$ kubectl get replicaset
No resources found in default namespace.
controlplane \$ kubectl get rs
No resources found in default namespace.
controlplane \$ vim replica-set-1.yaml
controlplane \$ kubectl apply -f replica-set-1.yaml
error: the path "replica-set.yaml" does not exist
controlplane \$ kubectl apply -f replica-set-1.yaml

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RESTART SCENARIOS FEEDBACK

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controlplane \$ kubectl apply -f replica-set.yaml
error: the path "replica-set.yaml" does not exist
controlplane \$ kubectl apply -f replica-set-1.yaml
replicaset.apps/replica-set-1 created
controlplane \$ kubectl get rs
NAME DESIRED CURRENT READY AGE
replica-set-1 3 3 3 20s
controlplane \$ kubectl scale rs replica-set-1 --replicas=5
replicaset.apps/replica-set-1 scaled
controlplane \$ kubectl apply -f replica-set.yaml
error: the path "replica-set.yaml" does not exist
controlplane \$ kubectl apply -f replica-set-1.yaml
replicaset.apps/replica-set-1 configured
controlplane \$ kubectl get rs replica-set-1
NAME DESIRED CURRENT READY AGE
replica-set-1 3 3 3 2m36s
controlplane \$ vim replica-set-1.yaml
controlplane \$ kubectl apply -f replica-set-1.yaml
replicaset.apps/replica-set-1 configured
controlplane \$ kubectl get rs replica-set-1
NAME DESIRED CURRENT READY AGE
replica-set-1 5 5 5 5m43s
controlplane \$ vim replica-set-1.yaml
controlplane \$ kubectl get pods
NAME READY STATUS RESTARTS AGE
nginx 1/1 Running 0 14m
redis 1/1 Running 0 17m
replica-set-1-5ldef 1/1 Running 0 7m
replica-set-1-042pl 1/1 Running 0 7m
replica-set-1-kl6s5 1/1 Running 0 85s
replica-set-1-qfzjz 1/1 Running 0 85s
replica-set-1-tpb7d 1/1 Running 0 7m
controlplane \$ kubectl delete pod <pod-name>
bash: syntax error near unexpected token `newline'
controlplane \$ kubectl delete pod replica-set-1-kl6s5

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controlplane \$ kubectl delete pod replica-set-1-kl6s5
pod "replica-set-1-kl6s5" deleted
kubectl get pods

controlplane \$ kubectl get pods
NAME READY STATUS RESTARTS AGE
nginx 1/1 Running 0 15m
redis 1/1 Running 0 10m
replica-set-1-5ldcf 1/1 Running 0 8m40s
replica-set-1-94zgl 1/1 Running 0 8m40s
replica-set-1-qfzgj 1/1 Running 0 3m5s
replica-set-1-tpb7d 1/1 Running 0 8m40s
replica-set-1-wlzp 1/1 Running 0 40s
controlplane \$ kubectl get deployments
No resources found in default namespace.
controlplane \$ kubectl get rs
NAME DESIRED CURRENT READY AGE
replica-set-1 5 5 5 11m
controlplane \$ vim deployment1.yaml
controlplane \$ kubectl apply -f deployment1.yaml
deployment.apps/deployment-1 created
controlplane \$ kubectl get deployments
NAME READY UP-TO-DATE AVAILABLE AGE
deployment-1 3/3 3 3 18s
controlplane \$ kubectl get rs
NAME DESIRED CURRENT READY AGE
deployment-1-75cd85d546 3 3 3 23s
replica-set-1 5 5 5 14m
controlplane \$ vim deployment1.yaml
controlplane \$ kubectl apply -f deployment1.yaml
deployment.apps/deployment-1 configured
controlplane \$ kubectl get deployments
NAME READY UP-TO-DATE AVAILABLE AGE
deployment-1 3/3 3 3 4m50s
controlplane \$ kubectl get rs

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RESTART SCENARIOS FEEDBACK

Editor Tab 1

controlplane \$ kubectl get rs
NAME DESIRED CURRENT READY AGE
deployment-1-75cd85d546 0 0 0 4m58s
deployment-1-7b5ddd7d56 3 3 3 22s
replica-set-1 5 5 5 18m
controlplane \$ kubectl describe deployment deployment-1
Name: deployment-1
Namespace: default
CreationTimestamp: Sun, 02 Mar 2025 05:16:19 +0000
Labels: <none>
Annotations: deployment.kubernetes.io/revision: 2
Selector: app=busybox
Replicas: 3 desired | 3 updated | 3 total | 3 available | 0 unavailable
StrategyType: RollingUpdate
MinReadySeconds: 0
RollingUpdateStrategy: 25% max unavailable, 25% max surge
Pod Template:
Labels: app=busybox
Containers:
busybox:
Image: nginx
Port: <none>
Host Port: <none>
Command:
sleep
3600
Environment: <none>
Mounts: <none>
Volumes: <none>
NodeSelectors: <none>
Tolerations: <none>
Conditions:
Type Status Reason

Available True MinimumReplicasAvailable

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RESTARTSCENARIOSFEEDBACK

Editor Tab 1

AvailableTrueMinimumReplicasAvailable

ProgressingTrueNewReplicaSetAvailable

OldReplicaSets:deployment-1-75cd85d546 (0/0 replicas created)

NewReplicaSet:deployment-1-7b5ddd7d56 (3/3 replicas created)

Events:

Type	Reason	Age	From	Message
Normal	ScalingReplicaSet	7m4s	deployment-controller	Scaled up replica set deployment-1-75cd85d546 to 3
Normal	ScalingReplicaSet	2m28s	deployment-controller	Scaled up replica set deployment-1-7b5ddd7d56 to 1
Normal	ScalingReplicaSet	2m6s	deployment-controller	Scaled down replica set deployment-1-75cd85d546 to 2 from 3
Normal	ScalingReplicaSet	2m6s	deployment-controller	Scaled up replica set deployment-1-7b5ddd7d56 to 2 from 1
Normal	ScalingReplicaSet	2m23s	deployment-controller	Scaled down replica set deployment-1-75cd85d546 to 1 from 2
Normal	ScalingReplicaSet	2m23s	deployment-controller	Scaled up replica set deployment-1-7b5ddd7d56 to 3 from 2
Normal	ScalingReplicaSet	2m21s	deployment-controller	Scaled down replica set deployment-1-75cd85d546 to 0 from 1

controlplane \$ vim deployment1.yaml

controlplane \$ kubectl describe deployment deployment-1

Name:deployment-1

Namespace:default

CreationTimestamp:Sun, 02 Mar 2025 05:16:19 +0000

Labels:<none>

Annotations:deployment.kubernetes.io/revision: 2

Selector:app=busybox

Replicas:3 desired | 3 updated | 3 total | 3 available | 0 unavailable

StrategyType:RollingUpdate

MinReadySeconds:0

RollingUpdateStrategy:25% max unavailable, 25% max surge

Pod Template:

Labels:app=busybox

Containers:

busybox:

Image:nginx

Port:<none>

Host Port:<none>

Command:sleep

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RESTARTSCENARIOSFEEDBACK

Editor Tab 1

Conditions:

Type	Status	Reason
Available	True	MinimumReplicasAvailable
Progressing	True	NewReplicaSetAvailable

OldReplicaSets:deployment-1-75cd85d546 (0/0 replicas created)

NewReplicaSet:deployment-1-7b5ddd7d56 (3/3 replicas created)

Events:

Type	Reason	Age	From	Message
Normal	ScalingReplicaSet	10m	deployment-controller	Scaled up replica set deployment-1-75cd85d546 to 3
Normal	ScalingReplicaSet	5m33s	deployment-controller	Scaled up replica set deployment-1-7b5ddd7d56 to 1
Normal	ScalingReplicaSet	5m31s	deployment-controller	Scaled down replica set deployment-1-75cd85d546 to 2 from 3
Normal	ScalingReplicaSet	5m31s	deployment-controller	Scaled up replica set deployment-1-7b5ddd7d56 to 2 from 1
Normal	ScalingReplicaSet	5m28s	deployment-controller	Scaled down replica set deployment-1-75cd85d546 to 1 from 2
Normal	ScalingReplicaSet	5m28s	deployment-controller	Scaled up replica set deployment-1-7b5ddd7d56 to 3 from 2
Normal	ScalingReplicaSet	5m26s	deployment-controller	Scaled down replica set deployment-1-75cd85d546 to 0 from 1

controlplane \$ kubectl rollout undo deployment deployment-1

deployment.apps/deployment-1 rolled back

controlplane \$ kubectl describe deployment deployment-1

Name:deployment-1

Namespace:default

CreationTimestamp:Sun, 02 Mar 2025 05:16:19 +0000

Labels:<none>

Annotations:deployment.kubernetes.io/revision: 3

Selector:app=busybox

Replicas:3 desired | 3 updated | 3 total | 3 available | 0 unavailable

StrategyType:RollingUpdate

MinReadySeconds:0

RollingUpdateStrategy:25% max unavailable, 25% max surge

Pod Template:

Labels:app=busybox

Containers:

busybox:

Image:busybox

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RESTARTSCENARIOSFEEDBACK

Editor Tab 1

```
busybox:
  Image: busybox
  Port: <none>
  Host Port: <none>
  Command:
    sleep
    3600
  Environment: <none>
  Mounts: <none>
  Volumes: <none>
  Node-Selectors: <none>
  Tolerations: <none>
Conditions:
  Type      Status Reason
  -----
  Available True    MinimumReplicasAvailable
  Progressing True    NewReplicaSetAvailable
OldReplicaSets: deployment-1-7b5dd7d56 (0/0 replicas created)
NewReplicaSet: deployment-1-75cd85d546 (3/3 replicas created)
Events:
  Type      Reason      Age      From      Message
  ----
Normal ScalingReplicaSet 13m      deployment-controller Scaled up replica set deployment-1-75cd85d546 to 3
Normal ScalingReplicaSet 8m56s    deployment-controller Scaled up replica set deployment-1-7b5dd7d56 to 1
Normal ScalingReplicaSet 8m54s    deployment-controller Scaled down replica set deployment-1-75cd85d546 to 2 from 3
Normal ScalingReplicaSet 8m54s    deployment-controller Scaled up replica set deployment-1-7b5dd7d56 to 2 from 1
Normal ScalingReplicaSet 8m51s    deployment-controller Scaled down replica set deployment-1-75cd85d546 to 1 from 2
Normal ScalingReplicaSet 8m51s    deployment-controller Scaled up replica set deployment-1-7b5dd7d56 to 3 from 2
Normal ScalingReplicaSet 8m49s    deployment-controller Scaled down replica set deployment-1-75cd85d546 to 0 from 1
Normal ScalingReplicaSet 29s      deployment-controller Scaled up replica set deployment-1-75cd85d546 to 1 from 0
Normal ScalingReplicaSet 26s      deployment-controller Scaled down replica set deployment-1-7b5dd7d56 to 2 from 3
Normal ScalingReplicaSet 21s (x4 over 26s) deployment-controller (combined from similar events): Scaled down replica set deployment-1-7b5dd7d56 to 0 from 1
controlplane $ vim nginx-deployment.yaml
controlplane $ vim nginx-deployment.yaml
```

Playground

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RESTARTSCENARIOSFEEDBACK

Editor Tab 1

```
controlplane $ vim nginx-deployment.yaml
controlplane $ vim nginx-deployment.yaml
controlplane $ kubectl apply -f nginx-deployment.yaml
deployment.apps/nginx-deployment created
controlplane $ kubectl get deployments
NAME          READY  UP-TO-DATE  AVAILABLE  AGE
deployment-1  3/3    3           3          18m
nginx-deployment  3/3    3           3          25s
controlplane $ kubectl get pods -l app=nginx-app
NAME                                READY  STATUS    RESTARTS  AGE
nginx-deployment-d85c7c6c8-99kgp    1/1    Running   0          59s
nginx-deployment-d85c7c6c8-tpdq4    1/1    Running   0          59s
nginx-deployment-d85c7c6c8-xgmw5    1/1    Running   0          59s
controlplane $ kubectl describe deployment nginx-deployment
Name:          nginx-deployment
Namespace:     default
CreationTimestamp: Sun, 02 Mar 2025 05:34:26 +0000
Labels:        app=nginx-app, type=front-end
Annotations:    deployment.kubernetes.io/revision: 1
Selector:      app=nginx-app,type=front-end
Replicas:      3 desired | 3 updated | 3 total | 3 available | 0 unavailable
StrategyType:  RollingUpdate
MinReadySeconds: 0
RollingUpdateStrategy: 25% max unavailable, 25% max surge
Pod Template:
  Labels:  app=nginx-app, type=front-end
  Containers:
    nginx-container:
      Image:      nginx:latest
      Port:       80/TCP
      Host Port:  0/TCP
      Environment: <none>
      Mounts:      <none>
```

Playground | Kubernetes | Killer

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5 min

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RESTARTSCENARIOSFEEDBACK

Editor Tab 1




Namespace: default
CreationTimestamp: Sun, 02 Mar 2025 05:34:26 +0000
Labels: app=nginx-app
type=front-end
Annotations: deployment.kubernetes.io/revision: 1
Selector: app=nginx-app,type=front-end
Replicas: 3 desired | 3 updated | 3 total | 3 available | 0 unavailable
Strategy/type: RollingUpdate
MinReadySeconds: 0
RollingUpdateStrategy: 25% max unavailable, 25% max surge
Pod Template:
Labels: app=nginx-app
type=front-end
Containers:
nginx-container:
Image: nginx:latest
Port: 80/TCP
Host Port: 0/TCP
Environment: <none>
Mounts: <none>
Volumes: <none>
Node-Selectors: <none>
Tolerations: <none>
Conditions:
Type Status Reason

Available True MinimumReplicasAvailable
Progressing True NewReplicaSetAvailable
OldReplicaSets: <none>
NewReplicaSet: nginx-deployment-d85c7c6c8 (3/3 replicas created)
Events:
Type Reason Age From Message

Normal ScalingReplicaSet 74s deployment-controller Scaled up replica set nginx-deployment-d85c7c6c8 to 3
controlplane \$

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AreasAccountCreatorLogout

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RESTARTSCENARIOSFEEDBACK

Editor Tab1 +

40 min

```
apiVersion: apps/v1
kind: ReplicaSet
metadata:
  name: replica-set-1
spec:
  replicas: 3
  selector:
    matchLabels:
      app: busybox
  template:
    metadata:
      labels:
        app: busybox
    spec:
      containers:
        - name: busybox
          image: busybox
          command: ["sleep", "3600"] # Keeps the container running
```




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RESTARTSCENARIOSFEEDBACK

Editor Tab1 +

39 min

```
apiVersion: apps/v1
kind: ReplicaSet
metadata:
  name: replica-set-1
spec:
  replicas: 5
  selector:
    matchLabels:
      app: busybox
  template:
    metadata:
      labels:
        app: busybox
    spec:
      containers:
        - name: busybox
          image: busybox
          command: ["sleep", "3600"] # Keeps the container running
```

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20 min

Playground

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RESTART SCENARIOS FEEDBACK

Editor Tab 1

default

Namespace: default

CreationTimestamp: Sun, 02 Mar 2025 05:16:19 +0000

Labels: <none>

Annotations: deployment.kubernetes.io/revision: 2

Selector: app=busybox

Replicas: 3 desired | 3 total | 3 available | 0 unavailable

StrategyType: RollingUpdate

MinReadySeconds: 0

RollingUpdateStrategy: 25% max unavailable, 25% max surge

Pod Template:

Labels: app=busybox

Containers:

busybox:

Image: nginx

Port: <none>

Host Port: <none>

Command:

sleep 3600

Environment: <none>

Mounts: <none>

Volumes: <none>

Node-Selectors: <none>

Tolerations: <none>

Conditions:

Type Status Reason

Available True MinimumReplicasAvailable

Progressing True NewReplicaSetAvailable

OldReplicaSets: deployment-1-75cd85d546 (0/0 replicas created)

NewReplicaSet: deployment-1-7b5ddd7d56 (3/3 replicas created)

Events:

Type Reason Age From Message

Normal ScalingReplicaSet 10m deployment-controller Scaled up replica set deployment-1-75cd85d546 to 3

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16 min

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RESTART SCENARIOS FEEDBACK

Editor Tab 1

default

Containers:

busybox:

Image: busybox

Port: <none>

Host Port: <none>

Command:

sleep 3600

Environment: <none>

Mounts: <none>

Volumes: <none>

Node-Selectors: <none>

Tolerations: <none>

Conditions:

Type Status Reason

Available True MinimumReplicasAvailable

Progressing True NewReplicaSetAvailable

OldReplicaSets: deployment-1-7b5ddd7d56 (0/0 replicas created)

NewReplicaSet: deployment-1-75cd85d546 (3/3 replicas created)

Events:

Type Reason Age From Message

Normal ScalingReplicaSet 13m deployment-controller Scaled up replica set deployment-1-75cd85d546 to 3

Normal ScalingReplicaSet 8m56s deployment-controller Scaled up replica set deployment-1-7b5ddd7d56 to 1

Normal ScalingReplicaSet 8m54s deployment-controller Scaled down replica set deployment-1-75cd85d546 to 2 from 3

Normal ScalingReplicaSet 8m54s deployment-controller Scaled up replica set deployment-1-7b5ddd7d56 to 2 from 1

Normal ScalingReplicaSet 8m51s deployment-controller Scaled down replica set deployment-1-75cd85d546 to 1 from 2

Normal ScalingReplicaSet 8m49s deployment-controller Scaled up replica set deployment-1-7b5ddd7d56 to 3 from 2

Normal ScalingReplicaSet 29s deployment-controller Scaled down replica set deployment-1-75cd85d546 to 0 from 1

Normal ScalingReplicaSet 26s deployment-controller Scaled up replica set deployment-1-75cd85d546 to 1 from 0

Normal ScalingReplicaSet 21s (x4 over 26s) deployment-controller Scaled down replica set deployment-1-7b5ddd7d56 to 2 from 3

(combined from similar events): Scaled down replica set deployment-1-7b5ddd7d56 to 0 from 1

controlplane \$

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RESTARTSCENARIOSFEEDBACK

Editor Tab 1

apiVersion: apps/v1
kind: Deployment
metadata:
 name: nginx-deployment
 labels:
 app: nginx-app
 type: front-end
spec:
 replicas: 3
 selector:
 matchLabels:
 app: nginx-app
 type: front-end
 template:
 metadata:
 labels:
 app: nginx-app
 type: front-end
 spec:
 containers:
 - name: nginx-container
 image: nginx:latest
 ports:
 - containerPort: 80

nginx-deployment.yaml 25L, 440C

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