

Jobs

1. Introduction

A job is a supervisor for pods carrying out batch processes, that is, a process that runs for a certain time to completion, for example a calculation or a backup operation.

2. An example

Let's create a job called **countdown**

```
kubectl create -f https://raw.githubusercontent.com/mhausenblas/kbe/master/specs/jobs/job.yaml
```

```
hadoop@k8s-00:~$ kubectl create -f https://raw.githubusercontent.com/mhausenblas/kbe/master/specs/jobs/job.yaml
job.batch "countdown" created
```

- get the job as follows

```
hadoop@k8s-00:~$ kubectl get jobs
```

| NAME | DESIRED | SUCCESSFUL | AGE |
|-----------|---------|------------|-----|
| countdown | 1 | 1 | 33s |

- get the pods

```
hadoop@k8s-00:~$ kubectl get pods
```

| NAME | READY | STATUS | RESTARTS | AGE |
|-----------------|-------|-----------|----------|-----|
| countdown-l9wzj | 0/1 | Completed | 0 | 59s |

- get more about the status of the job using

```
hadoop@k8s-00:~$ kubectl describe jobs/countdown
```

Name: countdown
Namespace: default
Selector: controller-uid=d972ad70-72b3-11e8-9751-76fd51353592
Labels: controller-uid=d972ad70-72b3-11e8-9751-76fd51353592
job-name=countdown
Annotations: <none>
Parallelism: 1
Completions: 1
Start Time: Mon, 18 Jun 2018 04:55:40 +0000

Pods Statuses: 0 Running / 1 Succeeded / 0 Failed

Pod Template:

Labels: controller-uid=d972ad70-72b3-11e8-9751-76fd51353592
job-name=countdown

Containers:

counter:

Image: centos:7

Port: <none>

Host Port: <none>

Command:

bin/bash

-c

for i in 9 8 7 6 5 4 3 2 1 ; do echo \$i ; done

Environment: <none>

Mounts: <none>

Volumes: <none>

Events:

| Type | Reason | Age | From | Message |
|--------|------------------|------|----------------|------------------------------|
| ---- | ----- | ---- | ---- | ----- |
| Normal | SuccessfulCreate | 1m | job-controller | Created pod: countdown-l9wzj |

- to see output of the job use

```
hadoop@k8s-00:~$ kubectl get pods
NAME                READY   STATUS    RESTARTS   AGE
countdown-l9wzj     0/1     Completed 0           2m
hadoop@k8s-00:~$ kubectl logs countdown-l9wzj
9
8
7
6
5
4
3
2
1
```

- delete the job using delete keyword

```
hadoop@k8s-00:~$ kubectl delete job countdown
job.batch "countdown" deleted
```