

Kubernetes 原理剖析与实战应用》

正范

一 拉勾教育出品





Deployment、Statefulset、Daemonset 工作负载

可以在不同的场景下运行长伺型(Long Running)的服务



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```
apiVersion batch/v1beta1
kind: Job
metadata:
  name pi
spec:
  template/
    spec 📉
      containers
        name: pi
        image perl
        command ["perl" "-Mbignum=bpi"
bpi (2000) 🖔
      restartPolicy: Never
  backoffLimit: 4
```

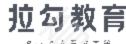
拉勾教育

```
$ kubectl create -f

https://kuberheces.io/examples/controllers/job.yaml

job.batch/pi/created
```

```
kubectl describe jobs/pi
Name:
Namespace:
             default
Selector
          controller uid=4f8027d0-cac1-42ea-b5f8-dbb4d9c9f67a
Labels:
          controller-uid=4f8027d0-cac1-42ea-b5f8-dbb4d9c9f67a
      job-name≂pi
Annotations: <none>
Parallelism: 1
Completions:
Start Time? Mon, 02 Dec 2020 15:04:52 (0200)
Completed At: Mon, 02 Dec 2020 15:06:39 +0200
Duration 65s
Pods Statuses: • Running / 1 Succeeded / 0 Failed
Pod Template:
Labels: controller-uid=c9948307-e56d-4b5d-8302-ae2d7b7da67c
    job-name=pi
Containers
Events:
                  Age From
                                 Message
 Type Reason
Normal SuccessfulCreate 4m job-controller Created pod. pi jk2k7
```



```
kubectl get pods --selector job-name=pi
```

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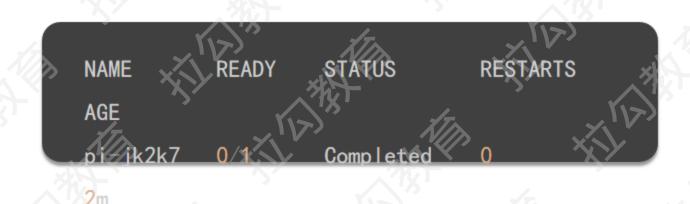
kubect get pods - selector=controller-uid=4f8027d0-cac1-42ea-b5f8-dbb4d9c9f67a





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Job 控制器会根据 spec. backoffLimit 中定义的数值来限制 Pod 失败的次数

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```
apiVersion: batch/v1
kind: Job
metadata
  name job-wq-
spec
  parallelism 2
  template
    metadata:
      name: job wo
    spec:
      containers:
        name c
        image: gcr_io/myproject/job
```



官方文档

https://kubernetes.io/zh/docs/concepts/workloads/controllers/job/#job-patterns

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```
apiVersion batch/v1
kind: Job
metadata:
 name pi-with tt
  ttlSecondsAfterFinished 100
  template
    spec
     containers:
        name: pi
        image perl
       command: ["perl"
                         "-Mbignum=bpi
bpi (2000)
     restartPolicy: Never
```

```
apiVersion batch/v1beta1
kind CronJob
metadata
 name hello # cronjob 名字
spec:
                         # job执行的周期,通过 cron 格式
 schedule:
来标明
  jobTemplate # job模板
    spec//
     template
       spec:
         containers:
           name: hello
           image: busybox
           imagePullPolicy: IfNotPresent
           args
             date; echo Hello from the Kubernetes cluster
```



Cron 的基本格式



Cron

还支持"*""/"等字符

- * 是个通配符,可以匹配任何值
- / 表示起始时间触发, 然后每隔一个固定时间触发一次



1

设置为 Allow, 这也是默认的值, 允许并发任务的执行

2

设置为 Forbid, 不允许并发任务执行

设置为 Replace, 用新的 Job 来替换当前正在运行的老的 Job



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