

1.1 Job 与 CronJob 实验手册

1.1.1 使用 Job

步骤 1 创建 Job 的 Yaml 文件

```
[root@k8s-master djfile]# vim pi-job.yaml
```

```
apiVersion: batch/v1
kind: Job
metadata:
  name: pi
spec:
  template:
    spec:
      containers:
      - name: pi
        image: perl
        command: ["perl", "-Mbignum=bpi", "-wle", "print bpi(2000)"]
        restartPolicy: Never
      backoffLimit: 4
```

步骤 2 创建 Job 并且查看 Job 的运行状态，可以看到 Job 在 10s 后运行完毕。

```
[root@k8s-master djfile]# kubectl apply -f pi-job.yaml && kubectl get job -w
```

```
job.batch/pi created
NAME      COMPLETIONS  DURATION  AGE
pi        0/1           0s        0s
pi        1/1           10s       10s
```

步骤 3 查看任务运行的结果[root@k8s-master djfile]# kubectl get pod

NAME	READY	STATUS	RESTARTS	AGE
pi-lmrng	0/1	Completed	0	75s

查看 Pod 的日志信息

```
[root@k8s-master djfile]# kubectl logs pi-lmrng
```

```
3.14159265358979323.....
```

1.1.2 使用 CronJob

步骤 1 创建 CronJob 的 yaml 文件，设置为每一分钟运行一次返回一次 hello

```
[root@k8s-master djfile]# vim CJ-hello.yaml
apiVersion: batch/v1beta1
kind: CronJob
metadata:
  name: hello
spec:
  schedule: "*/1 * * * *"
  jobTemplate:
    spec:
      template:
        spec:
          containers:
            - name: hello
              image: busybox
              args:
                - /bin/sh
                - -c
                - date; echo Hello from the Kubernetes cluster
          restartPolicy: OnFailure
```

步骤 2 运行 cronjob，稍等一段时间，查看 cronjob 运行情况。

```
[root@k8s-master djfile]# kubectl apply -f CJ-hello.yaml
[root@k8s-master djfile]# kubectl get pod
```

NAME	READY	STATUS	RESTARTS	AGE
hello-1561952100-js7z5	0/1	Completed	0	10s

```
[root@k8s-master djfile]# kubectl logs hello-1561952100-js7z5
```

```
Mon Jul 1 03:35:04 UTC 2019
Hello from the Kubernetes cluster
```

步骤 3 等待数分钟，再次查看 cronjob 运行情况。可以看到每隔 1 分钟，cronjob 就创建一个新的 pod。

```
[root@k8s-master djfile]# kubectl get pod
```

NAME	READY	STATUS	RESTARTS	AGE
hello-1561952580-tksrs	0/1	Completed	0	3m1s
hello-1561952640-hdg27	0/1	Completed	0	2m1s
hello-1561952700-qpk6p	0/1	Completed	0	61s
hello-1561952760-dj52p	0/1	ContainerCreating	0	1s