

Jobs, Corn Jobs

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Jobs, CronJobs

- A job creates one or more pods and ensures that a specified number of them successfully terminate.
- Jobs can be used to reliably run a Pod to completion the specified number of times (*.spec.completions*)
- Jobs can run multiple Pods in parallel (*.spec.parallelism*)
- Pods in a Job can only use *Never* or *OnFailure* as their *RestartPolicy*
- It is up to the user to delete old jobs after noting their status
- Deleting a Job will delete the related Pods
- If Pods are failing, the Job will create new Pods forever. The *.spec.activeDeadlineSeconds* will limit the time for which a Job will create new Pods.
- CronJobs can create Jobs once or repeatedly at specified times
- *.spec.jobTemplate* will specify the Job to be created
- *concurrencyPolicy*: *Allow*, *Forbid*, *Replace*

Jobs example

```
apiVersion: batch/v1
kind: Job
metadata:
  name: pi
spec:
  completions: 10
  parallelism: 3
  template:
    metadata:
      name: pi
    spec:
      containers:
        - name: pi
          image: perl
          command: ["perl", "-Mbignum=bpi", "-wle", "print bpi(2000)"]
      restartPolicy: Never
```

CronJobs example

```
apiVersion: batch/v2alpha1
```

```
kind: CronJob
metadata:
  name: cron-pi
spec:
  schedule: "*/1 * * * *"
jobTemplate:
  spec:
    completions: 10
    parallelism: 3
    template:
      metadata:
        name: pi
      spec:
        containers:
          - name: pi
            image: perl
            command: ["perl", "-Mbignum=bpi", "-wle", "print bpi(2000)"]
        restartPolicy: Never
```