

## 08-cronjob

**CronJob** What it is CronJob creates Jobs on a cron schedule. When to use Scheduled backups

Recurring data sync or cleanup Periodic reports Key fields `spec.schedule`: cron expression

`spec.concurrencyPolicy`: Allow, Forbid, Replace `spec.startingDeadlineSeconds`:

missed window tolerance `spec.successfulJobsHistoryLimit` /

`failedJobsHistoryLimit` **Common commands** `bash` `kubectl get cronjobs` `kubectl`

`create cronjob nightly-backup --image=busybox --schedule="0 2 * * *" --`

`sh -c "echo backup"` `kubectl describe cronjob nightly-backup` `kubectl get`

`jobs --selector=job-name` `kubectl delete cronjob nightly-backup` **YAML**

**example** `yaml` `apiVersion: batch/v1 kind: CronJob metadata: name:`

`nightly-backup spec: schedule: "0 2 * * *" concurrencyPolicy: Forbid`

`successfulJobsHistoryLimit: 3 failedJobsHistoryLimit: 1 jobTemplate:`

`spec: template: spec: restartPolicy: OnFailure containers: - name: backup`

`image: busybox:1.36 command: ["sh", "-c", "echo backup start; sleep 5;`

`echo backup done"]` **Practical notes** Time zone behavior depends on cluster version/settings.

Keep history limits small in high-frequency schedules.