

Lab Kubernetes Jobs

```
# in a workflow. The resource template type accepts any k8s manifest
# (including CRDs) and can perform any `kubectl` action against it (e.g.
create,
# apply, delete, patch).
apiVersion: argoproj.io/v1alpha1
kind: Workflow
metadata:
  generateName: k8s-jobs-
  namespace: argo
spec:
  entrypoint: pi-tmpl
  serviceAccountName: training
  templates:
  - name: pi-tmpl
    resource: # indicates that this is a resource template
    action: create # can be any kubectl action (e.g. create,
delete, apply, patch)
    # The successCondition and failureCondition are optional expressions.
    # If failureCondition is true, the step is considered failed.
    # If successCondition is true, the step is considered successful.
    # They use kubernetes label selection syntax and can be applied against
any field
    # of the resource (not just labels). Multiple AND conditions can be
represented by comma
    # delimited expressions.
    # For more details:
https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/
    successCondition: status.succeeded > 0
    failureCondition: status.failed > 3
    manifest: | #put your kubernetes spec here
      apiVersion: batch/v1
      kind: Job
      metadata:
        generateName: pi-job-
      spec:
        template:
          metadata:
            name: pi
          spec:
            containers:
            - name: pi
              image: perl
              command: ["perl", "-Mbignum=bpi", "-wle", "print bpi(2000)"]
              restartPolicy: Never
            backoffLimit: 4
```

```
# Second flow
apiVersion: argoproj.io/v1alpha1
kind: Workflow
metadata:
  generateName: k8s-patch-
  namespace: argo
spec:
  entrypoint: cront-tmpl
  serviceAccountName: training
  templates:
    - name: cront-tmpl
      resource:
        action: patch
        mergeStrategy: merge          # Must be one of
[strategic merge json]
        manifest: |
          apiVersion: "stable.example.com/v1"
          kind: CronTab
          spec:
            cronSpec: "* * * * */10"
            image: my-awesome-cron-image
```