

Argo WorkflowTemplate

Argo FrameworkWorkflowTemplateKubeClientKubernetesKubernetesKubernetesetcdWorkflow/Template
KubernetesetcdLet's do it

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- minikubeKubernetesKubernetesv1.20.7
- argov3.0.3ago
- macOS Big Sur 11.3.1
-

```
$ kubectl get pod -n argo
```

NAME	READY	STATUS	RESTARTS	AGE
argo-server-74d5fbc96f-2kggn	1/1	Running	4	9d
artifact-passing-7nbb8-2671358325	0/2	Completed	0	7d6h
artifact-passing-7nbb8-3206827579	0/2	Completed	0	7d6h
coinflip-recursive-7rq7q-1332317667	0/2	Completed	0	7d5h
coinflip-recursive-7rq7q-1606251718	0/2	Completed	0	7d5h
coinflip-recursive-7rq7q-2597052250	0/2	Completed	0	7d5h
dag-diamond-52j85-3816963081	0/2	Completed	0	7d6h
dag-diamond-52j85-3833740700	0/2	Completed	0	7d6h
dag-diamond-52j85-3850518319	0/2	Completed	0	7d6h
dag-diamond-52j85-3867295938	0/2	Completed	0	7d6h
hello-world-parameters-vp22n	0/2	Completed	0	6d2h
hello-world-q6xgs	0/2	Completed	0	9d
minio-58977b4b48-77845	1/1	Running	0	9d
postgres-6b5c55f477-q192b	1/1	Running	0	9d
scripts-bash-k2lvz-1450909329	0/2	Completed	0	7d6h
scripts-bash-k2lvz-2982878120	0/2	Completed	0	7d6h
steps-4ttw6-2092906639	0/2	Completed	0	7d6h
steps-4ttw6-2896022568	0/2	Completed	0	7d6h
steps-4ttw6-2946355425	0/2	Completed	0	7d6h
suspend-template-ndwsj-1636099991	0/2	Completed	0	7d5h
suspend-template-ndwsj-2357527897	0/2	Completed	0	7d5h
timeouts-step-h7txs	0/2	DeadlineExceeded	0	7d5h
volumes-pvc-v5n2g-3111502854	0/2	Completed	0	7d5h
workflow-controller-7fb47d49bb-sjljx	1/1	Running	2	9d

Kubernetes etcd

- kube-systemetcd

```
$ kubectl get pod -n kube-system
```

NAME	READY	STATUS	RESTARTS	AGE
coredns-74ff55c9b-g73hd	1/1	Running	0	9d
etcd-minikube	1/1	Running	0	9d
kube-apiserver-minikube	1/1	Running	0	9d
kube-controller-manager-minikube	1/1	Running	0	9d
kube-proxy-9nesh	1/1	Running	0	9d
kube-scheduler-minikube	1/1	Running	0	9d
storage-provisioner	1/1	Running	1	9d

```
$ kubectl exec -n kube-system etcd-minikube sh -it
kubectl exec [POD] [COMMAND] is DEPRECATED and will be removed in a future version. Use kubectl exec [POD] -- [COMMAND] instead.
sh:1.0h
```

- etcdctl

```
alias etcdctl="ETCDCTL_API=3 /usr/local/bin/etcdctl --endpoints=
https://127.0.0.1:2379 --cacert=/var/lib/minikube/certs/etcd/ca.crt
--cert=/var/lib/minikube/certs/etcd/healthcheck-client.crt --key=/var
/lib/minikube/certs/etcd/healthcheck-client.key"
```

- etcdctl get / --prefix=true --keys-only=true /registry/[argoproj.io](#) /workflows

```

/registry/apiregistration.k8s.io/apiservices/v1beta1.networking.k8s.io
/registry/apiregistration.k8s.io/apiservices/v1beta1.node.k8s.io
/registry/apiregistration.k8s.io/apiservices/v1beta1.policy
/registry/apiregistration.k8s.io/apiservices/v1beta1.rbac.authorization.k8s.io
/registry/apiregistration.k8s.io/apiservices/v1beta1.scheduling.k8s.io
/registry/apiregistration.k8s.io/apiservices/v1beta1.storage.k8s.io
/registry/apiregistration.k8s.io/apiservices/v2beta1.autoscaling
/registry/apiregistration.k8s.io/apiservices/v2beta2.autoscaling
/registry/argoproj.io/workflows/argo/artifact-passing-7nbb8
/registry/argoproj.io/workflows/argo/coinflip-recursive-7rq7q
/registry/argoproj.io/workflows/argo/dag-diamond-52j85
/registry/argoproj.io/workflows/argo/hello-world-parameters-vp2zn
/registry/argoproj.io/workflows/argo/hello-world-q6xgs
/registry/argoproj.io/workflows/argo/scripts-bash-k2lvz
/registry/argoproj.io/workflows/argo/steps-4ttw6
/registry/argoproj.io/workflows/argo/suspend-template-ndwsj
/registry/argoproj.io/workflows/argo/timeouts-step-h7txs
/registry/argoproj.io/workflows/argo/volumes-pvc-v5nzg
/registry/argoproj.io/workflows/default/hello-world-ffzczj
/registry/argoproj.io/workflows/default/steps-q4zcc
/registry/argoproj.io/workflows/test/hello-world-8sv2k
/registry/clusterrolebindings/argo-clusterworkflowtemplate-role-binding

```

WorkflowInformerListWatchResourcenamespacepod

```

60 // https://github.com/argoproj/argo-workflows/blob/master/pkg/workflow/informer.go
61 func NewWorkflowInformer(dclient dynamic.Interface, ns string, resyncPeriod time.Duration, t
62     resource := schema.GroupVersionResource{
63         Group:    workflow.Group,
64         Version:  "v1alpha1",
65         Resource: workflow.WorkflowPlural,
66     }
67     informer := unstructuredutil.NewFilteredUnstructuredInformer(
68         resource,
69         dclient,
70         ns,
71         resyncPeriod,
72         indexes,
73         tweakListOptions,
74     )
75     return informer

```

- argoWorkflow CRD steps-4ttw6 (steps.yaml1)

```

APIVersion: v1
kind: CustomResourceDefinition
metadata:
  annotations:
    controller-gen.kubebuilder.io/version: v0.11.1
  name: workflows.argoproj.io
spec:
  group: argoproj.io
  names:
    kind: Workflow
    plural: workflows
    short-name: wf
  scope: Namespaced
  versions:
    - name: v1
      schema:
        openAPIV3Schema:
          description: Workflow is the main object of the workflow. It contains the spec and status of the workflow.
          properties:
            apiVersion:
              type: string
            kind:
              type: string
            metadata:
              type: object
            spec:
              type: object
            status:
              type: object

```

- WorkflowWorkflowTemplateWorkflow

Workflow

WorkflowWorkflowPgSQL/MySQL<https://argoproj.github.io/argo-workflows/workflow-archive/>