

Lab Volume mount

Create a pv

mkdir /mnt/data

kubectl create -f pv.yaml

```
apiVersion: v1
kind: PersistentVolume
metadata:
  name: pv-volume-2
  labels:
    type: local
spec:
  storageClassName: manual
  capacity:
    storage: 1Gi
  accessModes:
    - ReadWriteOnce
  hostPath:
    path: "/mnt/data"
```

```
apiVersion: argoproj.io/v1alpha1
kind: Workflow
metadata:
  generateName: volumes-pvc-
  namespace: argo
spec:
  entrypoint: volumes-pvc-example
  serviceAccountName: training
  volumeClaimTemplates:      # define volume, same syntax as k8s Pod spec
  - metadata:
      name: workdir           # name of volume claim
    spec:
      storageClassName: manual
      accessModes: [ "ReadWriteOnce" ]
      resources:
        requests:
          storage: 1Gi        # Gi => 1024 * 1024 * 1024
```

```
templates:
- name: volumes-pvc-example
  steps:
    - name: generate
      template: whalesay
    - name: print
      template: print-message

- name: whalesay
  container:
    image: docker/whalesay:latest
    command: [sh, -c]
    args: ["echo generating message in volume; cowsay hello world | tee
/mnt/vol/hello_world.txt"]
    # Mount workdir volume at /mnt/vol before invoking docker/whalesay
    volumeMounts:
      # same syntax as k8s Pod spec
      - name: workdir
        mountPath: /mnt/vol

- name: print-message
  container:
    image: alpine:latest
    command: [sh, -c]
    args: ["echo getting message from volume; find /mnt/vol; cat
/mnt/vol/hello_world.txt"]
    # Mount workdir volume at /mnt/vol before invoking docker/whalesay
    volumeMounts:
      # same syntax as k8s Pod spec
      - name: workdir
        mountPath: /mnt/vol
```