```
Editor Tab 1 +
1-
     apiVersion: v1
                              controlplane $ vim redis-busybox.yml
     kind: Pod
                              controlplane $ kubectl create -f redis-busybox.yml
     metadata:
                              pod/redis created
       name: redis
       labels:
         app: MyApp
     spec:
       containers:
       - name: redis
         image: redis
       initContainers:
       - name: init-cont
         image: busybox
         command: ['sleep','20']
     Editor Tab 1 +
    apiVersion: v1
                                          pod/print-envars-greeting created
    kind: Pod
                                          controlplane $ kubectl logs -f
```

```
controlplane $ kubectl create -f greeting.yml
metadata:
                                      daemonsets/
                                                                jobs/
  name: print-envars-greeting
                                      deployments/
                                                               pods/
spec:
                                      controlplane $ kubectl logs -f print-envars-gre
  containers:
                                      Welcome to DevOps Industries
  - name: print-env-container
   image: bash
    env:
    - name: GREETING
      value: "Welcome to"
    - name: COMPANY
      value: "DevOps"
    - name: GROUP
      value: "Industries"
    command: ["/bin/echo"]
    args: ["$(GREETING) $(COMPANY) $(GROUP)"]
```

3-

```
Editor Tab 1 +
apiVersion: v1
                            controlplane $ kubectl create -f volume.yml
kind: PersistentVolume
                            persistentvolume/pv-log created
metadata:
  name: pv-log
  labels:
    type: local
spec:
  storageClassName: manual
  capacity:
    storage: 100Mi
  accessModes:
    - ReadWriteMany
  hostPath:
    path: "/pv/log"
```

5controlplane \$ kubectl create -f webapp.yml apiVersion: v1 pod/webapp created kind: Pod metadata: name: webapp spec: containers: - name: myfrontend image: nginx volumeMounts: - mountPath: "/var/log/nginx" name: pvc volumes: - name: pvc persistentVolumeClaim: claimName: claim-log-1

6-

```
controlplane $ kubectl get daemonsets.apps --all-namespaces

NAMESPACE NAME DESIRED CURRENT READY UP-TO-DATE AVAILABLE NODE SELECTOR AGE

kube-system canal 2 2 2 2 2 kubernetes.io/os=linux 11d

kube-system kube-proxy 2 2 2 2 2 kubernetes.io/os=linux 11d
```

7-canal and kube-proxy

8-registry.k8s.io/kube-proxy:v1.26.0

CONTAINERS	IMAGES
calico-node,kube-flannel	docker.io/calico/node:v3.24.1,quay.io/co
kube-proxy	registry.k8s.io/kube-proxy:v1.26.0

```
apiVersion: apps/v1
       kind: DaemonSet
9-
       metadata:
         name: elasticsearch
        namespace: kube-system
       spec:
         selector:
           matchLabels:
             name: fluentd-elasticsearch
         template:
           metadata:
             labels:
               name: fluentd-elasticsearch
           spec:
            containers:
             - name: fluentd
               image: k8s.gcr.io/fluentd-elasticsearch:1.20
```

apiVersion: v1
kind: Pod
metadata:
name: yellow
spec:
containers:
- name: lemon
image: busybox
- name: gold
image: redis

11 & 12-

```
Normal Pulled 6s (x3 over 44s) kubelet Container image "mysql:5.7" already present on machine
Warning BackOff 5s (x5 over 43s) kubelet Back-off restarting failed container db-pod in pod db-pod_default(e04c13c8-0f5c-4bb9-8262-09c5c0af4fea)
controlplane $ kubectl get pod db-pod
RESTARTS AGE
db-pod 0/1 CrashLoopBackOff 3 (24s ago) 74s
controlplane $ $
```

```
apiVersion: v1
kind: Secret
metadata:
name: mysecret
type: Opaque
data:
MYSQL_DATABASE: c3FSMDE=
MYSQL_USER: dXNlcjE=
MYSQL_PASSWORD: cGFzc3dvcmQ=
MYSQL_ROOT_PASSWORD: cGFzc3dvcmQxMjM=

v
```