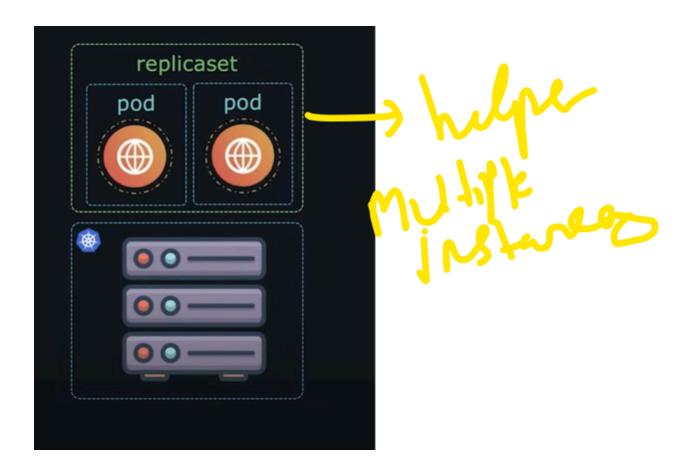


container-d

```
3 kubectl run nginx
  4 kubectl run nginx --image=ngix
  5 kubectl get pods
  6 kubectl get pods
  7 kubectl get pods
  8 kubectl get pods
  9 kubectl get pods
 10 kubectl get pods
 11 kubectl get pods
 12 kubectl get pods
 13 kubectl get pods
 14 kubectl get pods
 15 kubectl get pods
 16 kubectl get pods
 17 kubectl run nginx --image=ngix
 18 kubectl get pods
        kubectl describe pod nginx
 19
     kubectl edit pod nginx
 20
     kubectl run nginx --image=nginx
 21
     kubectl edit pod nginx
 22
     kubectl delete pod nginx
 23
 24 kubectl run nginx --image=nginx --restart=Nev
 25
    kubectl get pods
 26 kubectl describe pod nginx
 27 kubectl logs nginx
 28 history
ontrolplane ~ → 🗍
```

```
Warning Failed
                     9m33s (x4 over 11m)
                                         kubelet
                                                            Error: ErrImagePu
 Warning Failed
                     9m20s (x6 over 11m)
                                         kubelet
                                                            Error: ImagePullB
          BackOff
                                                            Back-off pulling
 Normal
                     60s (x43 over 11m)
                                         kubelet
controlplane ~ → kubectl edit pod nginx
Edit cancelled, no changes made.
controlplane ~ → kubectl run nginx --image=nginx
Error from server (AlreadyExists): pods "nginx" already exists
controlplane ~ X kubectl edit pod nginx
pod/nginx edited
controlplane ~ → kubectl delete pod nginx
kubectl run nginx --image=nginx --restart=Never
controlplane ~ X kubectl delete pod nginx
pod "nginx" deleted
controlplane ~ → kubectl run nginx --image=nginx --restart=Never
pod/nginx created
controlplane ~ → kubectl get pods
                        RESTARTS
NAME
       READY STATUS
                                    AGE
nginx
               Running
                                    10s
       1/1
```

## Replica sets:



Describe:

controlplane ~ → kubectl describe pod myapp-pod Name: myapp-pod default Namespace: Priority: 0 Service Account: default Node: controlplane/192.168.50.9 Node: controlplane/192.168.50.9
Start Time: Wed, 26 Feb 2025 15:49:46 +0000 Labels: app=myapp type=front-end Annotations: <none> Status: Running IP: 10.42.0.11 IPs: IP: 10.42.0.11 Containers: nginx-container: Container ID: containerd://2d8a968a565aa5823ca0f6222867923e3509d756614de9454eb122e8c18a Image: Image ID: docker.io/library/nginx@sha256:9d6b58feebd2dbd3c56ab5853333d627cc6e281011 4bcf2072c9496 Port: <none> Host Port: <none> State: Running Started: Wed, 26 Feb 2025 15:49:47 +0000 True Ready: Restart Count: 0 Environment:

A @ (1)

<none>

```
- echo Hello Kubernetes! && sleep 3600

controlplane ~ → kubectl describe pod busybox-pod
Error from server (NotFound): pods "busybox-pod" not found

controlplane ~ ★ vi pod-definition.yml

controlplane ~ → kubectl describe pod myapp-pod
Error from server (NotFound): pods "myapp-pod" not found

controlplane ~ ★ kubectl apply -f pod-definition.yml
error: error parsing pod-definition.yml: error converting YAML to JSON: yaml: line 7:
mapping values are not allowed in this context

controlplane ~ ★ vi pod-definition.yml

controlplane ~ → kubectl apply -f pod-definition.yml
pod/myapp-pod created

controlplane ~ → kubectl get pods

NAME READY STATUS RESTARTS AGE
nginx 1/1 Running 0 19m
myapp-pod 1/1 Running 0 28s

controlplane ~ → □
```

```
apiVersion: v1
kind: Pod
metadata:
    name: myapp-pod
    labels:
    app: myapp
    type: front-end
spec:
    containers:
    - name: nginx-container
    image: nginx
```

## Steps to Apply the Fix:

- 1. Save the corrected YAML as  $\ensuremath{\,\mathsf{pod-definition.yml}}$  .
- 2. Apply it using:

3. Verify that the pod is created successfully:

```
apiVersion: apps/v1
kind: ReplicaSet
metadata:
 name: myapp-replicaset
 labels:
      app: myapp
      type: front-end
spec:
 template:
    metadata:
     name: myapp-pod
     labels:
        app: myapp
        type: front-end-
    spec:
      containers:
      - name: nginx-container
        image: nginx
 replicas: 3
  selector:
    matchLabels:
        type: front-end
```