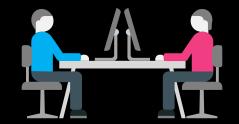
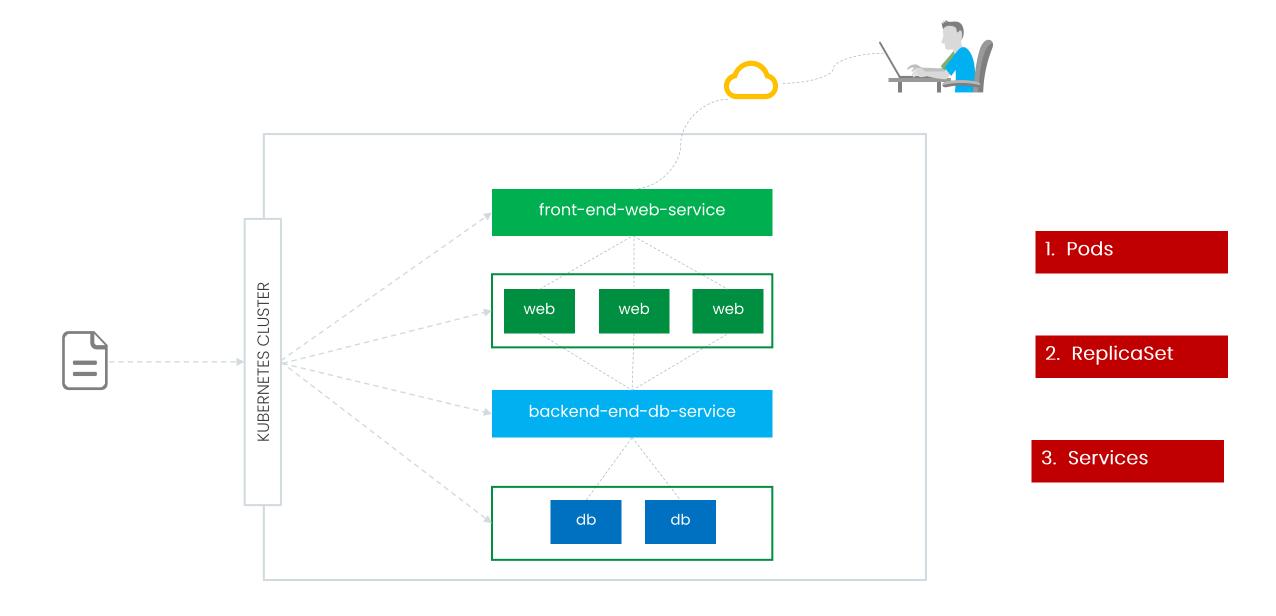




# Troubleshooting Application









### TROUBLESHOOTING - PODS

```
# kubectl get pods
NAME
             READY
                     STATUS
                                RESTARTS
                                           AGE
                     Running
                                           15d
nginx-pod
             1/1
                                0
redis-pod
             1/1
                     Running
                                0
                                           -15d-
# kubectl describe pods [POD NAME]
              nginx-pod
Name:
              default
Namespace:
. . .
Status:
              Running
Containers:
  busybox:
    . . .
                   busybox:1.28.4
    Image:
   State:
                   Running
                    Sat, 02 Nov 2019 11:03:27 +0000
      Started:
Events:
```

## 1. Pending

**REASON: Not Enough Resources?** 

SOL-1: Delete Pods\*\*

SOL-2: Add new nodes

## 2. Waiting

Incorrect Image Name?

Does Image Exists in Repo?

Run manual Docker pull <image> on worker node

### 3. Crashback or Unhealthy

```
# kubectl logs ${POD_NAME}

# kubectl logs ${POD_NAME} ${CONTAINER_NAME}

# kubectl logs --previous ${POD_NAME}

# kubectl exec ${POD_NAME} -- ${CMD} ${ARG1} ...
```

4. Running, but not doing is expected to do

```
# kubectl apply --validate -f mypod.yaml
```

# TROUBLESHOOTING - REPLICASET

# kubectl describe rs [REPLICASET\_NAME]



### TROUBLESHOOTING - SERVICES

```
# cat nginx-deploy.yaml
apiVersion: apps/v1
kind: Deployment
metadata:
 name: nginx
 namespace: default
spec:
 replicas: 1
  selector:
   matchLabels:
      run: nginx
 template:
   metadata:
      labels:
        name: nginx
    spec:
      containers:
      - image: nginx
        name: nginx
```

```
# kubectl describe service [SERVICE NAME]
Name:
                          nginx
                          default
Namespace:
Labels:
                          run=nginx
Annotations:
                          <none>
Selector:
                          name=nginx
                          NodePort
Type:
IP:
                          10.101.252.174
Port:
                          <unset> 80/TCP
TargetPort:
                          80/TCP
NodePort:
                          <unset> 30715/TCP
                          10.244.2.20:80
Endpoints:
Session Affinity:
                          None
External Traffic Policy: Cluster
Events:
                          <none>
kubectl get endpoints [SERVICE_NAME]
kubectl get pods --selector=run=nginx
```

