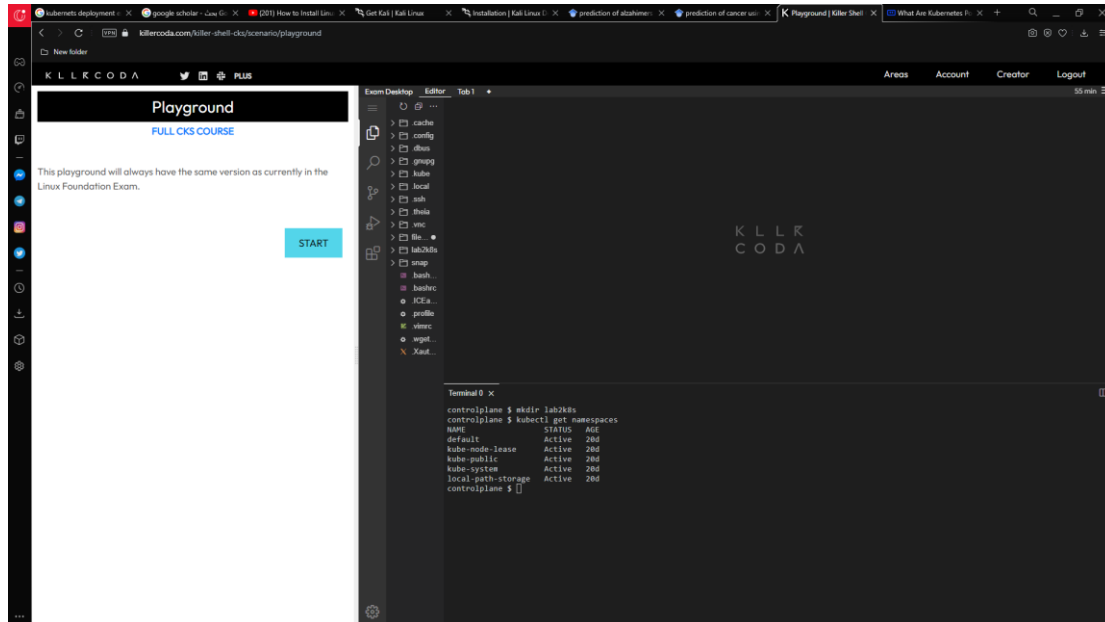
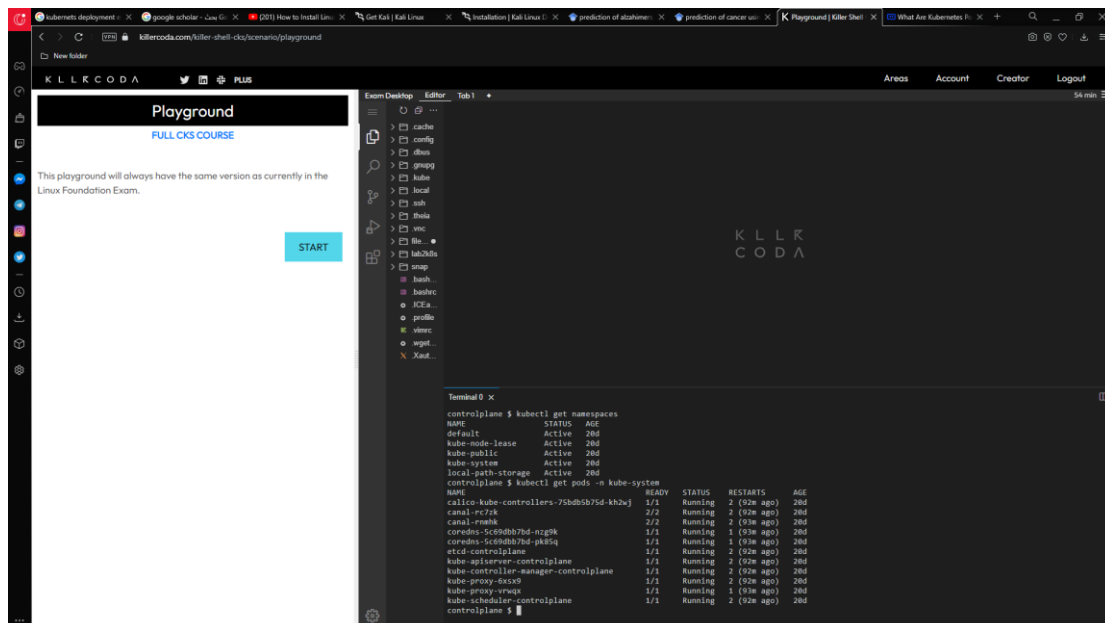


Lab 2 K8s :

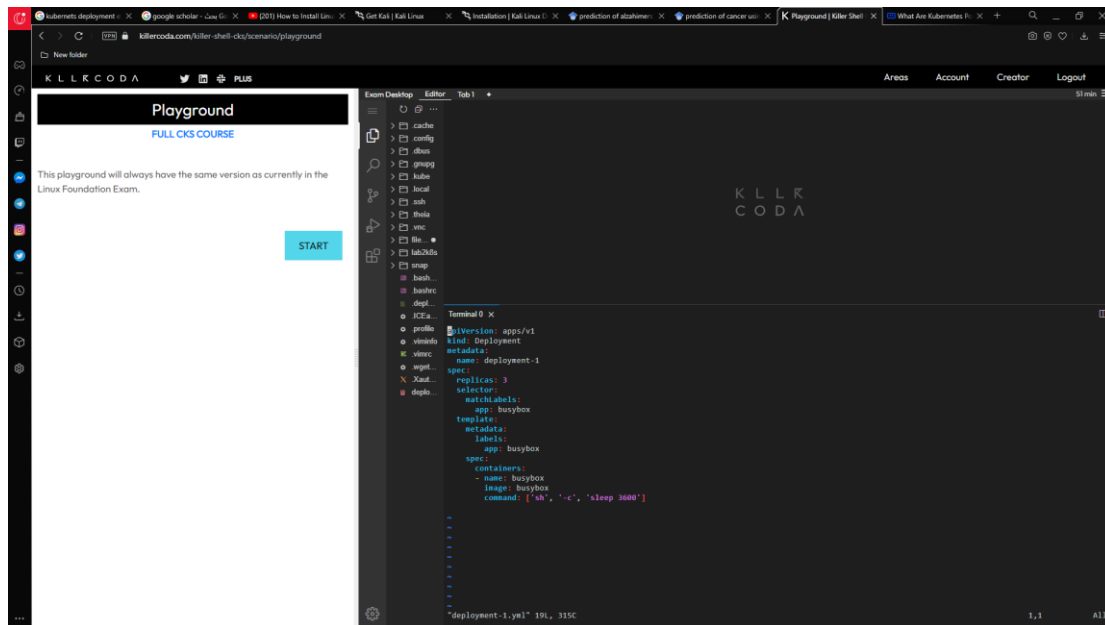
- How many Namespaces exist on the system?



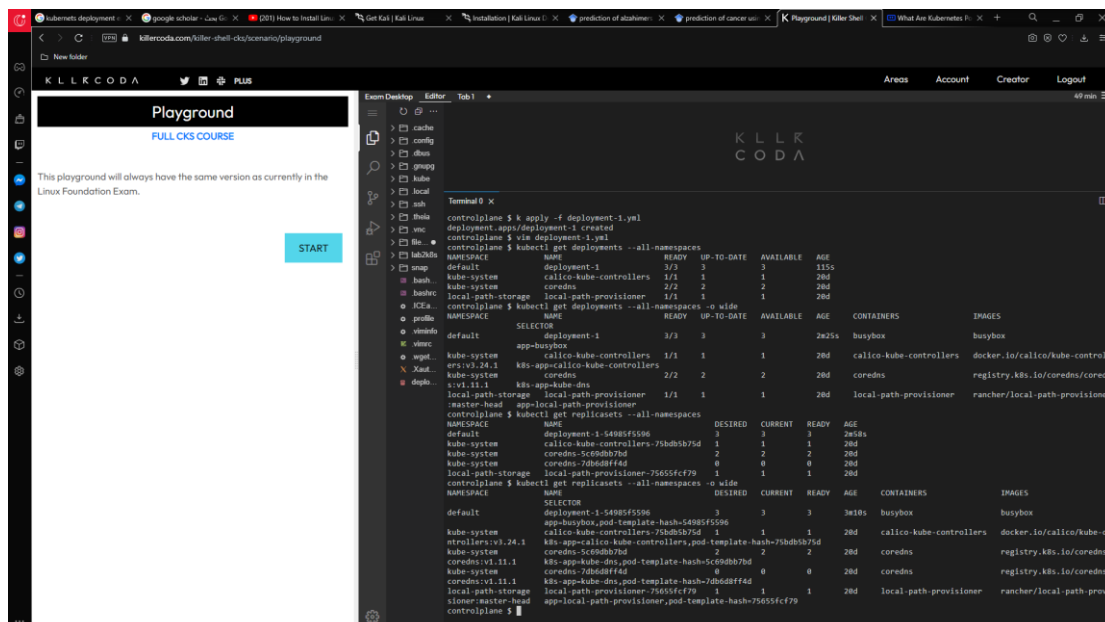
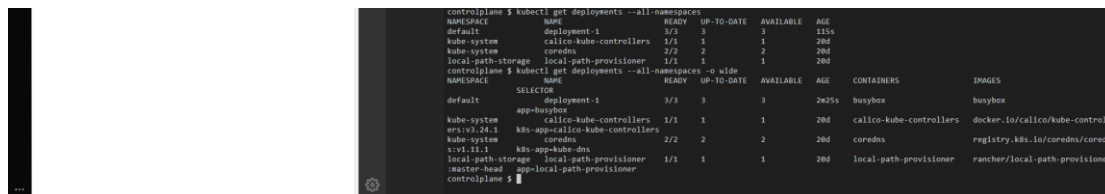
- How many pods exist in the kube-system namespace?



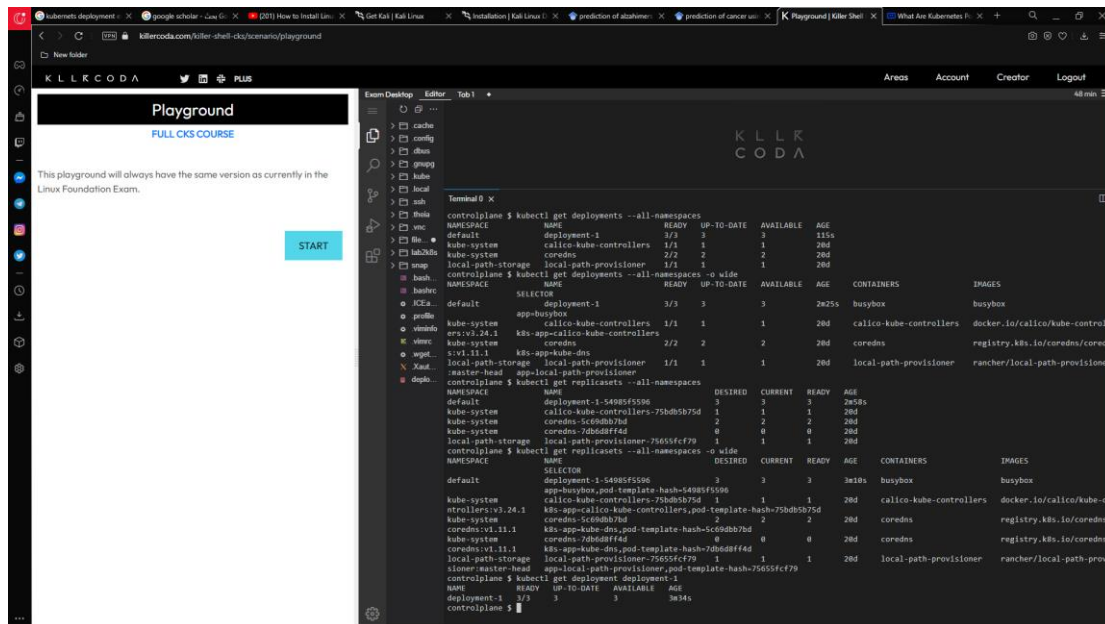
- create a Deployment with name= deployment-1 image= busybox replicas= 3



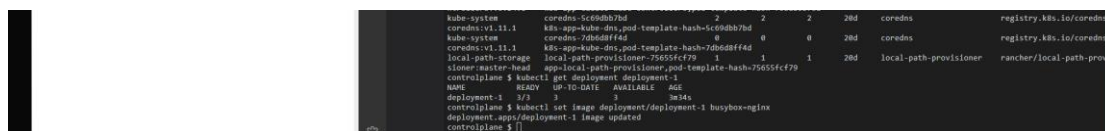
- How many Deployments and ReplicaSets exist on the system now?



- How many pods are ready with the deployment-1?



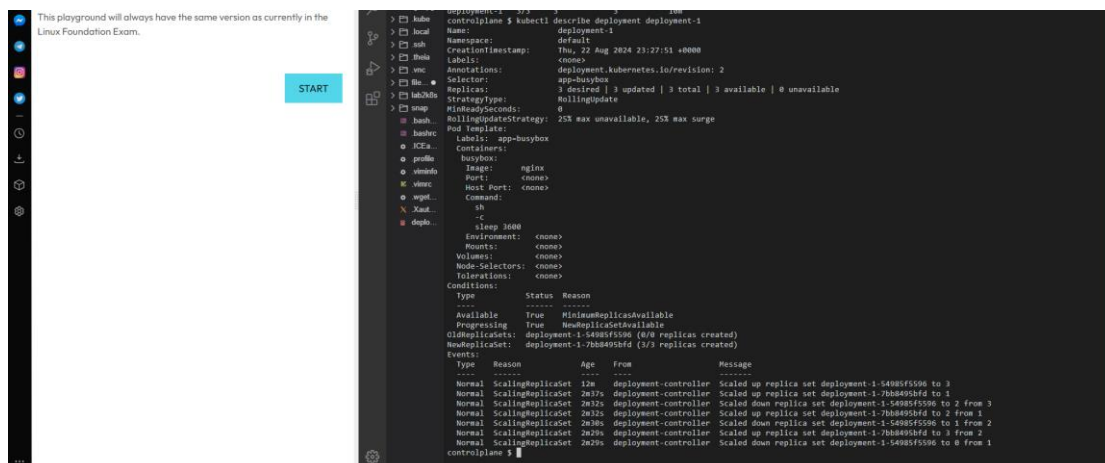
-Update deployment-1 image to nginx then check the ready pods again



Check the ready pods again :

With k get deployment deployment-1

Run kubectl describe deployment deployment-1 and check events



What is the deployment strategy used to upgrade the deployment-1?

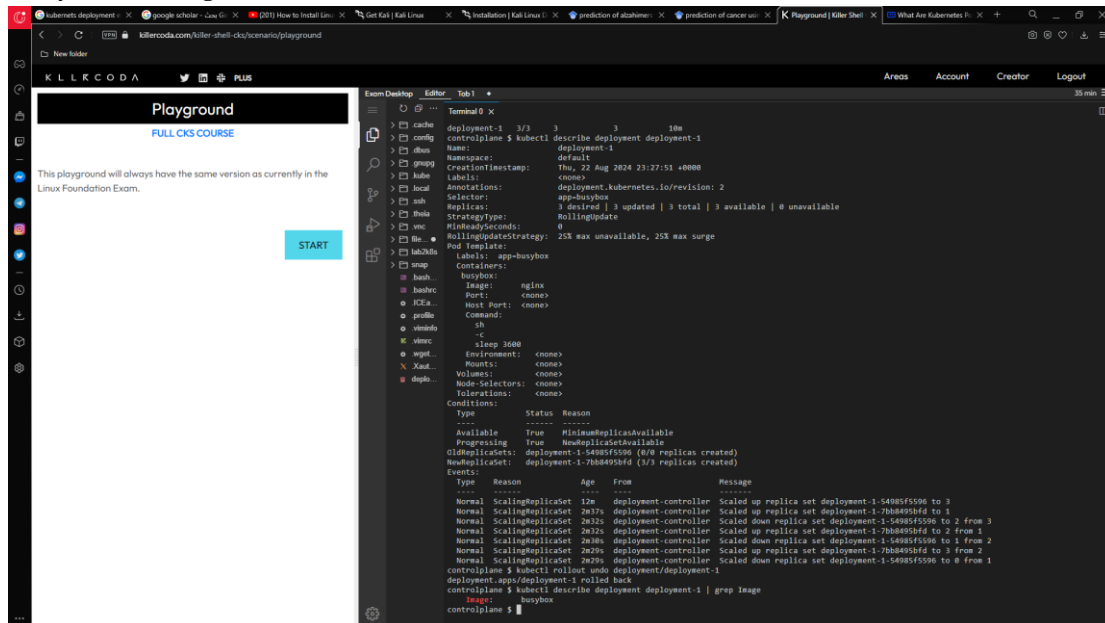
Rolling Update strategey

- Rollback the deployment-1

```
Normal ScalingReplicaSet 2m32s deployment-controller Scaled down replica set deployment-1-54085f5596 to 2 from 3
Normal ScalingReplicaSet 2m32s deployment-controller Scaled up replica set deployment-1-7bb8495b4d to 2 from 1
Normal ScalingReplicaSet 2m38s deployment-controller Scaled down replica set deployment-1-54085f5596 to 1 from 2
Normal ScalingReplicaSet 2m29s deployment-controller Scaled up replica set deployment-1-7bb8495b4d to 3 from 2
Normal ScalingReplicaSet 2m29s deployment-controller Scaled down replica set deployment-1-54085f5596 to 0 from 1
controlplane $ kubectl rollout undo deployment/deployment-1
deployment.apps/deployment-1 rolled back
controlplane $
```

What is the used image with the deployment-1?

Busy box image



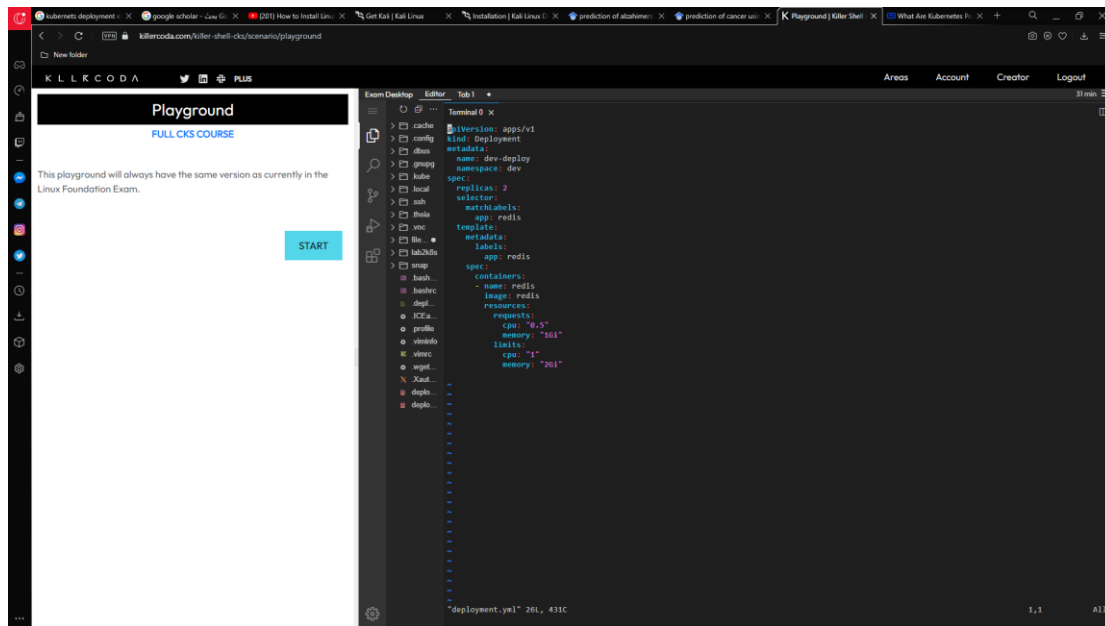
Create a deployment with Name: dev-deploy Image: redis Replicas: 2
Namespace: dev Resources Requests: CPU: .5 vcpu Mem: 1G Resources
Limits: CPU: 1 vcpu Mem: 2G

Ans:

First create dev namespace

```
Normal ScalingReplicaSet 2m29s deployment-controller Scaled down replica set deployment-1-54085f5596 to 0 from 1
deployment.apps/deployment-1 rolled back
controlplane $ kubectl describe deployment deployment-1 | grep Image
Image: busybox
controlplane $ kubectl create namespace dev
namespace/dev created
controlplane $
```

Then build dev-deployment yaml file



Then apply the deployment

