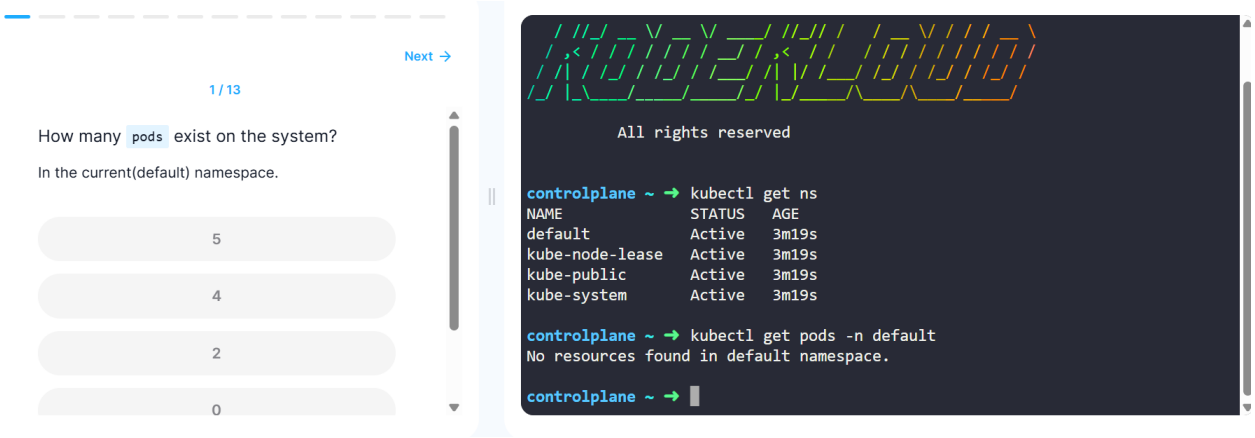
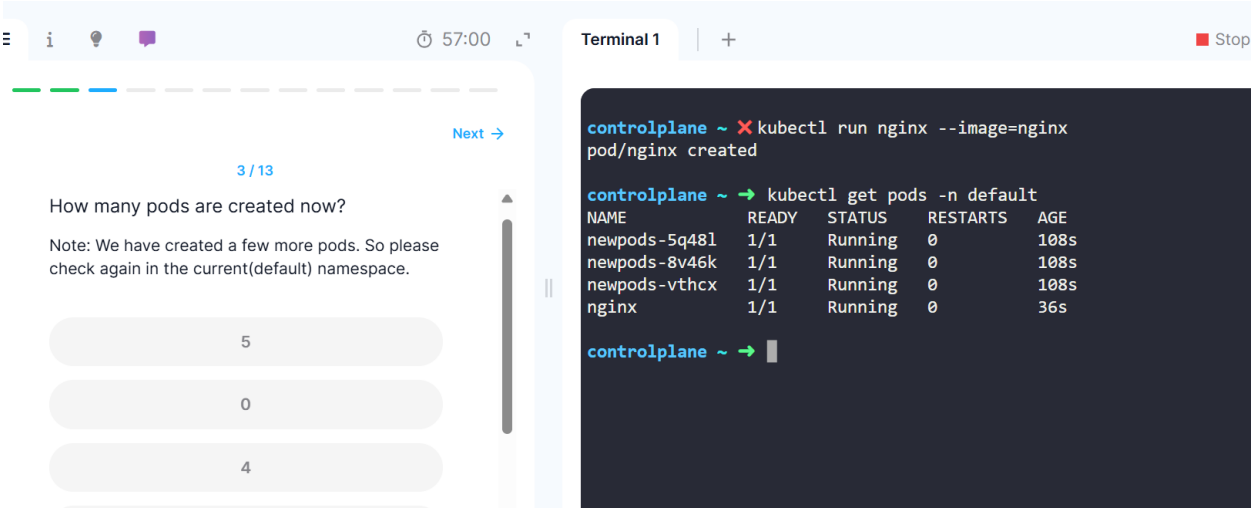
Lab2


Next →
1 / 13
How many pods exist on the system?
In the current(default) namespace.
5
4
2
0
All rights reserved
controlplane ~ ➜ kubectl get ns
NAME STATUS AGE
default Active 3m19s
kube-node-lease Active 3m19s
kube-public Active 3m19s
kube-system Active 3m19s
controlplane ~ ➜ kubectl get pods -n default
No resources found in default namespace.
controlplane ~ ➜


Next →
2 / 13
Create a new pod using the nginx image.
Check
Next →
Image name: nginx
controlplane ~ ✖ kubectl run nginx --image=nginx
pod/nginx created
controlplane ~ ➜


57:00
Terminal 1
Stop
Next →
3 / 13
How many pods are created now?
Note: We have created a few more pods. So please check again in the current(default) namespace.
5
0
4
controlplane ~ ✖ kubectl run nginx --image=nginx
pod/nginx created
controlplane ~ ➜ kubectl get pods -n default
NAME READY STATUS RESTARTS AGE
newpods-5q48l 1/1 Running 0 108s
newpods-8v46k 1/1 Running 0 108s
newpods-vthcx 1/1 Running 0 108s
nginx 1/1 Running 0 36s
controlplane ~ ➜

Next →

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Which image is specified for the pods whose names begin with the `newpods-` prefix?

You must look at one of the new pods in detail to figure this out.

- JENKINS
- BUSYBOX
- NEWPOD

```
controlplane ~ ✖ kubectl run nginx --image=nginx
pod/nginx created

controlplane ~ ➜ kubectl get pods -n default
NAME            READY   STATUS    RESTARTS   AGE
newpods-5q48l   1/1     Running   0          108s
newpods-8v46k   1/1     Running   0          108s
newpods-vthcx   1/1     Running   0          108s
nginx           1/1     Running   0          36s

controlplane ~ ➜ kubectl describe pod newpods-5q48l | grep image
  Normal  Pulling    2m58s  kubelet            Pulling image "busybox"
  Normal  Pulled     2m58s  kubelet            Successfully pulled image "bus
ybox" in 262ms (262ms including waiting). Image size: 2223685 bytes.

controlplane ~ ➜
```

Next →

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Which nodes are these pods placed on?

You must look at all the pods in detail to figure this out.

- master
- node02
- controlplane

```
See 'kubectl get --help' for usage.

controlplane ~ ✖ kubectl get pods --all
error: unknown flag: --all
See 'kubectl get --help' for usage.

controlplane ~ ✖ kubectl get pods -o wide
NAME            READY   STATUS    RESTARTS   AGE     IP           NODE
    NOMINATED NODE   READINESS GATES
newpods-5q48l   1/1     Running   0          4m14s   10.22.0.11   controlplan
e   <none>           <none>
newpods-8v46k   1/1     Running   0          4m14s   10.22.0.10   controlplan
e   <none>           <none>
newpods-vthcx   1/1     Running   0          4m14s   10.22.0.9    controlplan
e   <none>           <none>
nginx           1/1     Running   0          3m2s    10.22.0.12   controlplan
e   <none>           <none>

controlplane ~ ➜
```

Next →

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What images are used in the new `webapp` pod?

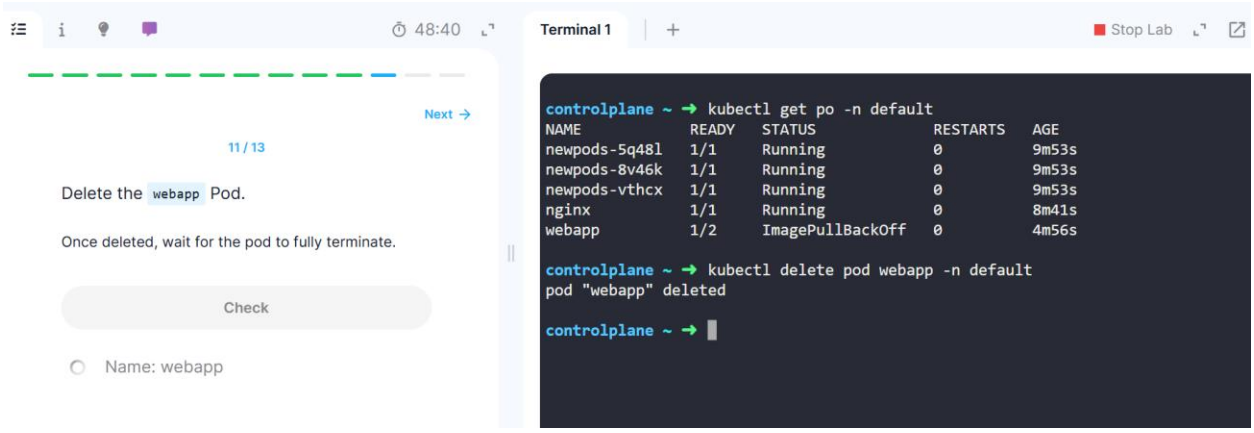
You must look at all the pods in detail to figure this out.

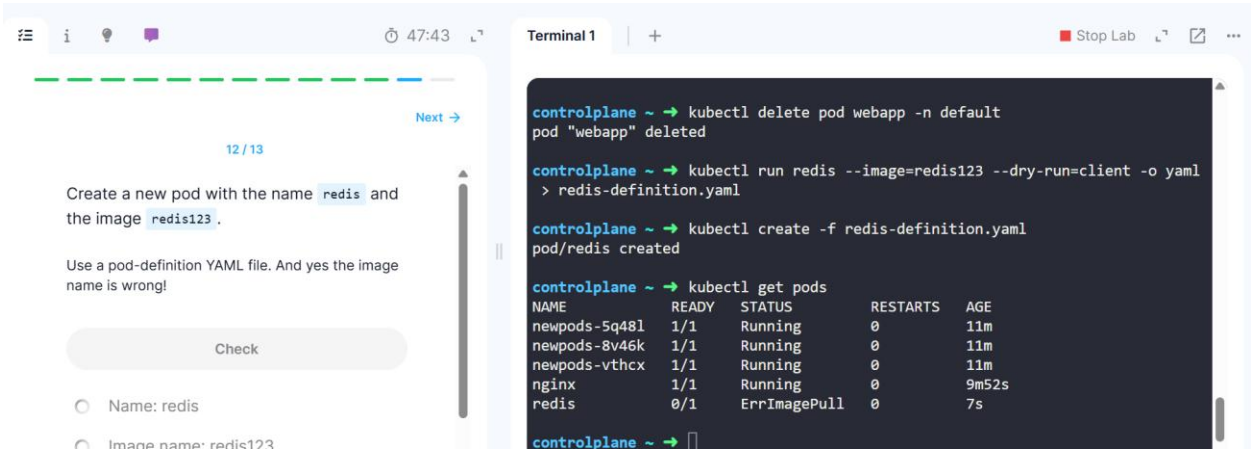
- nginx & agentx
- agentx
- nginx & busybox

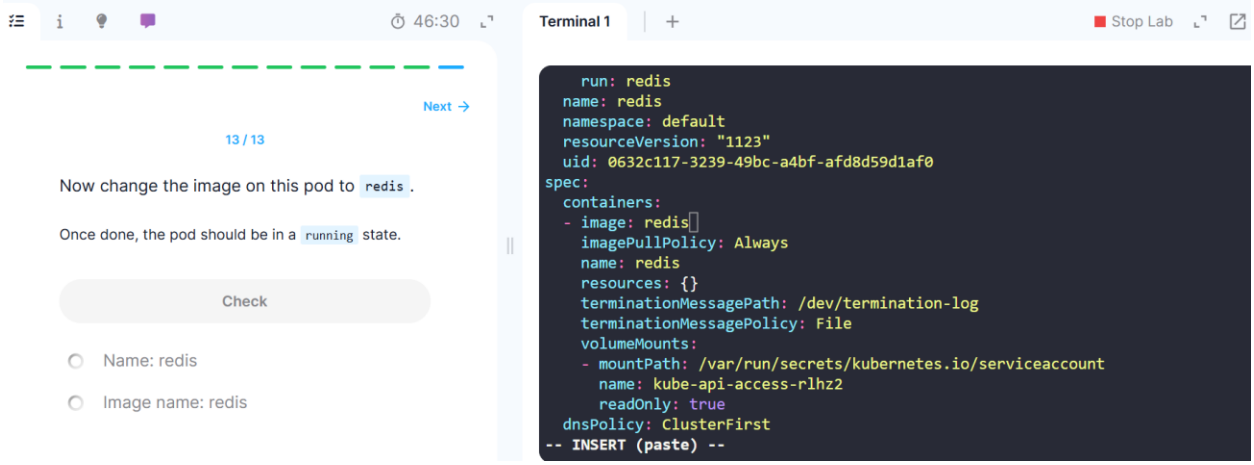
```
webapp          1/2     ImagePullBackOff   0          2m45s

controlplane ~ ➜ kubectl describe po webapp -n default | grep image
  Normal   Pulling    3m1s                kubelet            Pulling image "
nginx"
  Normal   Pulled     3m1s                kubelet            Successfully pu
lled image "nginx" in 141ms (141ms including waiting). Image size: 72324501 b
ytes.
  Normal   Pulling    18s (x5 over 3m1s)  kubelet            Pulling image "
agentx"
  Warning  Failed     17s (x5 over 3m)    kubelet            Failed to pull
image "agentx": failed to pull and unpack image "docker.io/library/agentx:lat
est": failed to resolve reference "docker.io/library/agentx:latest": pull acc
ess denied, repository does not exist or may require authorization: server me
ssage: insufficient_scope: authorization failed
  Normal   BackOff    5s (x10 over 2m59s)  kubelet            Back-off pullin
g image "agentx"

controlplane ~ ➜
```


48:40
Terminal 1
Stop Lab
Next →
11 / 13
Delete the webapp Pod.
Once deleted, wait for the pod to fully terminate.
Check
Name: webapp
controlplane ~ ➜ kubectl get po -n default
NAME READY STATUS RESTARTS AGE
newpods-5q48l 1/1 Running 0 9m53s
newpods-8v46k 1/1 Running 0 9m53s
newpods-vthcx 1/1 Running 0 9m53s
nginx 1/1 Running 0 8m41s
webapp 1/2 ImagePullBackOff 0 4m56s
controlplane ~ ➜ kubectl delete pod webapp -n default
pod "webapp" deleted
controlplane ~ ➜


47:43
Terminal 1
Stop Lab
Next →
12 / 13
Create a new pod with the name redis and the image redis123 .
Use a pod-definition YAML file. And yes the image name is wrong!
Check
Name: redis
controlplane ~ ➜ kubectl delete pod webapp -n default
pod "webapp" deleted
controlplane ~ ➜ kubectl run redis --image=redis123 --dry-run=client -o yaml
> redis-definition.yaml
controlplane ~ ➜ kubectl create -f redis-definition.yaml
pod/redis created
controlplane ~ ➜ kubectl get pods
NAME READY STATUS RESTARTS AGE
newpods-5q48l 1/1 Running 0 11m
newpods-8v46k 1/1 Running 0 11m
newpods-vthcx 1/1 Running 0 11m
nginx 1/1 Running 0 9m52s
redis 0/1 ErrImagePull 0 7s


46:30
Terminal 1
Stop Lab
Next →
13 / 13
Now change the image on this pod to redis .
Once done, the pod should be in a running state.
Check
Name: redis
Image name: redis
run: redis
name: redis
namespace: default
resourceVersion: "1123"
uid: 0632c117-3239-49bc-a4bf-afd8d59d1af0
spec:
containers:
- image: redis
imagePullPolicy: Always
name: redis
resources: {}
terminationMessagePath: /dev/termination-log
terminationMessagePolicy: File
volumeMounts:
- mountPath: /var/run/secrets/kubernetes.io/serviceaccount
name: kube-api-access-rlhz2
readOnly: true
dnsPolicy: ClusterFirst
-- INSERT (paste) --