

KodeCloud

KUBERNETES FOR BEGINNERS LABS, LABS: FAMILIARIZE WITH...

In ProgressMark Complete

TaskHint53:13

What is the flavor and version of Operating System on which the Kubernetes nodes are running?

Alpine LinuxCentOS 7Debian 8.11Ubuntu 14.04Ubuntu 16.04

Terminal 1

```
kubectl get pods
No resources found in default namespace.

kubectl get nodes
NAME          STATUS    ROLES          AGE   VERSION
controlplane  Ready     control-plane,master  7m20s v1.27.1+k3s1

kubectl version --short
Flag --short has been deprecated, and will be removed in the future. The --short output will become the default.
Client Version: v1.27.1+k3s1
Kustomize Version: v5.0.1
Server Version: v1.27.1+k3s1

kubectl get nodes -o json | jq -r '.items[].status.addresses[]'
```

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codekloud.com/topic/labs-pods-with-yaml-2/

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KUBERNETES FOR BEGINNERS LABS, LABS: PODS WITH YAML Complete

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Task

Hint

Solution

33:21 ⌚ 🗐

1 2 3 4 5 6 7 8 9 10 11 12 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

Terminal 1 +

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Welcome to the KodeKloud Hands-On lab



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controlplane ~ ➔ `kubectl get pods`
No resources found in default namespace.

controlplane ~ ➔ `kubectl run nginx --name=nginx`
error: unknown flag: --name
See 'kubectl run --help' for usage.

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

controlplane ~ ➔ `kubectl get pods`

NAME	READY	STATUS	RESTARTS	AGE
nginx	1/1	Running	0	59s

Feedback

 Search



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Task Hint Solution 33:14 ⌚ ⌵

1 2 3 4 5 6 7 8 9 10 11 12 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


Terminal 1 + ⋮ ⌵ ↺ ⬇ □

```
controlplane ~ → kubectl get pods
NAME          READY   STATUS    RESTARTS   AGE
nginx         1/1     Running   0           59s
newpods-lxb9h 1/1     Running   0           11s
newpods-mtj9h 1/1     Running   0           11s
newpods-hh76h 1/1     Running   0           11s

controlplane ~ → kubectl describe pod newpods-lxb9h
Name:          newpods-lxb9h
Namespace:     default
Priority:       0
Service Account: default
Node:          controlplane/192.34.238.6
Start Time:    Wed, 06 Dec 2023 16:58:00 +0000
Labels:        tier=busybox
Annotations:    <none>
Status:        Running
IP:            10.42.0.12
IPs:
  IP:          10.42.0.12
Controlled By: ReplicaSet/newpods
Containers:
  busybox:
```

Feedback

 Search



ENG US ⌵ 10:50 PM 12/6/2023 ⌵

Task	Hint	Solution	32:58		
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Terminal 1

1 2 3 4 5 6 7 8 9 10 11 12 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

```
controlplane ~ → kubectl get pods
-bash: kubectl: command not found

controlplane ~ ✗ kubectl get pods
NAME          READY   STATUS    RESTARTS   AGE
nginx          1/1     Running   0           6m32s
newpods-lxb9h 1/1     Running   0           5m44s
newpods-mtj9h 1/1     Running   0           5m44s
newpods-hh76h 1/1     Running   0           5m44s
webapp        1/2     ImagePullBackOff 0           98s

controlplane ~ → kubectl delete pod webapp
pod "webapp" deleted

controlplane ~ → kubectl get pod
NAME          READY   STATUS    RESTARTS   AGE
nginx          1/1     Running   0           11m
newpods-lxb9h 1/1     Running   0           10m
newpods-mtj9h 1/1     Running   0           10m
newpods-hh76h 1/1     Running   0           10m

controlplane ~ → kubectl run redis --image:redis123
-bash: kubectl: command not found
```

Feedback

Task	Hint	Solution	09:04		
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Terminal 1

1 2 3 4 5 6 7 8 9 10 11 12 13
14 15 16

Create a ReplicaSet using the `replicaset-definition-1.yaml` file located at `/root/`.

There is an issue with the file, so try to fix it.

Check

- Name: replicaset-1

```
controlplane ~ → kubectl describe replicaset new-replica-set
Name:          new-replica-set
Namespace:     default
Selector:      name=busybox-pod
Labels:        <none>
Annotations:   <none>
Replicas:      4 current / 4 desired
Pods Status:   0 Running / 4 Waiting / 0 Succeeded / 0 Failed
Pod Template:
  Labels:  name=busybox-pod
  Containers:
    busybox-container:
      Image:      busybox777
      Port:       <none>
      Host Port:  <none>
      Command:
        sh
        -c
        echo Hello Kubernetes! && sleep 3600
      Environment:  <none>
      Mounts:       <none>
      Volumes:      <none>
Events:
```

Feedback

Task	Hint	Solution	09:00		
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Terminal 1

1 2 3 4 5 6 7 8 9 10 11 12 13
14 15 16

Create a ReplicaSet using the `replicaset-definition-1.yaml` file located at `/root/`.

There is an issue with the file, so try to fix it.

Check

- Name: replicaset-1

```
controlplane ~ → kubectl describe pod new-replica-set-j9kqb
Name:                new-replica-set-j9kqb
Namespace:           default
Priority:              0
Service Account:     default
Node:                controlplane/192.35.210.6
Start Time:          Wed, 06 Dec 2023 17:24:25 +0000
Labels:              name=busybox-pod
Annotations:         <none>
Status:              Pending
IP:                  10.42.0.10
IPs:
  IP:                10.42.0.10
Controlled By:       ReplicaSet/new-replica-set
Containers:
  busybox-container:
    Container ID:
    Image:          busybox777
    Image ID:
    Port:           <none>
    Host Port:      <none>
    Command:
      sh
      -c
```

Feedback

Terminal 1

There is an issue with the file, so try to fix it.

Check

- Name: replicaset-1

Normal	Pulling	41m (x4 over 42m)	kubelet	Pulling image "busybox777"
Warning	Failed	41m (x4 over 42m)	kubelet	Failed to pull image "busybox777": rpc error: code = Unknown desc = failed to pull and unpack image "docker.io/library/busybox777:latest": failed to resolve reference "docker.io/library/busybox777:latest": pull access denied, repository does not exist or may require authorization: server message: insufficient_scope: authorization failed
Warning	Failed	41m (x4 over 42m)	kubelet	Error: ErrImagePull
Warning	Failed	40m (x6 over 42m)	kubelet	Error: ImagePullBackOff
Normal	BackOff	2m29s (x176 over 42m)	kubelet	Back-off pulling image "busybox777"

```
controlplane ~ ➔ kubectl get pods
```

NAME	READY	STATUS	RESTARTS	AGE
new-replica-set-j9kqb	0/1	ImagePullBackOff	0	44m
new-replica-set-ccmvw	0/1	ImagePullBackOff	0	44m
new-replica-set-bzczb	0/1	ImagePullBackOff	0	44m
new-replica-set-8ftrb	0/1	ImagePullBackOff	0	44m

```
controlplane ~ ➔ kubectl delete pod new-replica-set-j9kqb
pod "new-replica-set-j9kqb" deleted
```

