

# Linux-Foundation

## Exam Questions CKA

Certified Kubernetes Administrator (CKA) Program



**NEW QUESTION 1**

Create a pod that echo 'hello world' and then exists. Have the pod deleted automatically when it's completed

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
kubectl run busybox --image=busybox -it --rm --restart=Never -
/bin/sh -c 'echo hello world'
kubectl get po # You shouldn't see pod with the name "busybox"
```

**NEW QUESTION 2**

Monitor the logs of pod foo and:

- > Extract log lines corresponding to error unable-to-access-website
- > Write them to /opt/KULM00201/foo

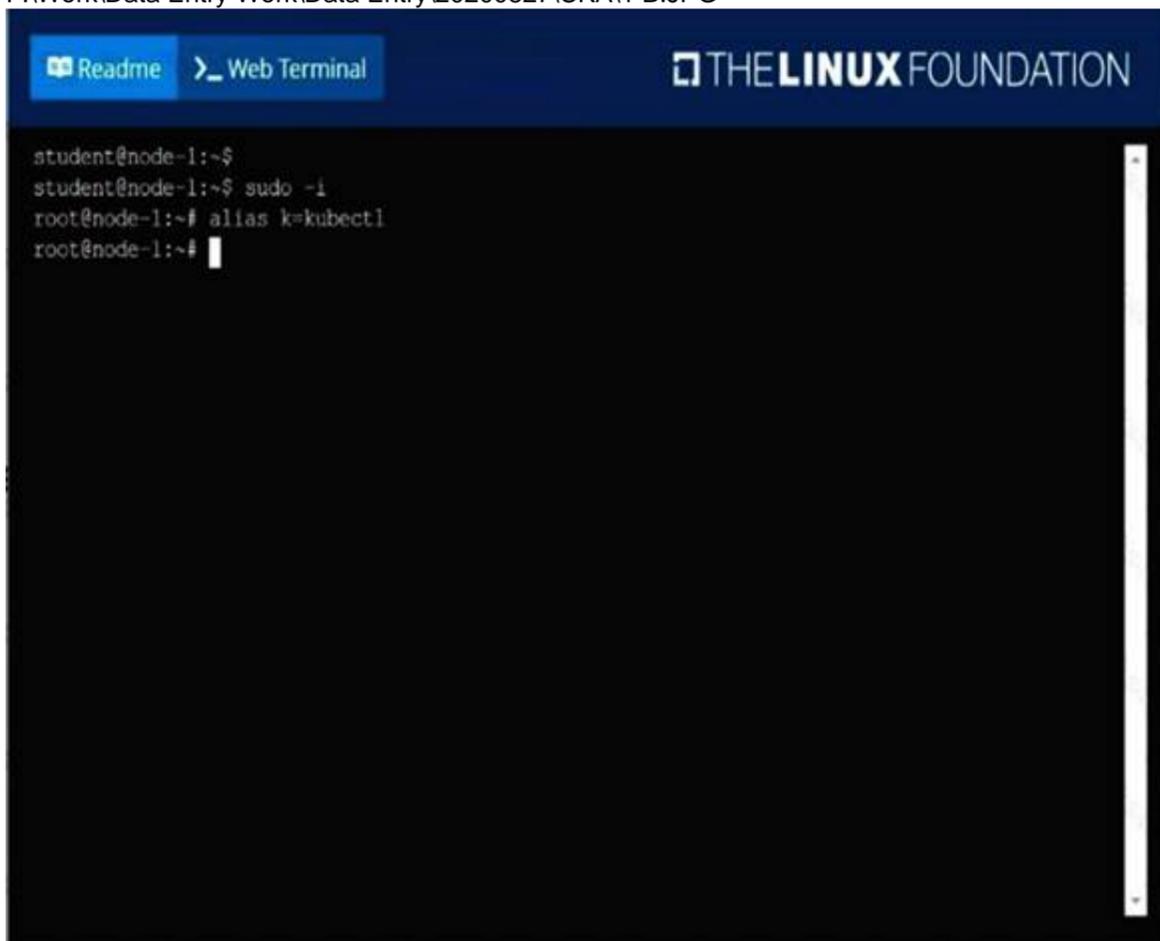


- A. Mastered
- B. Not Mastered

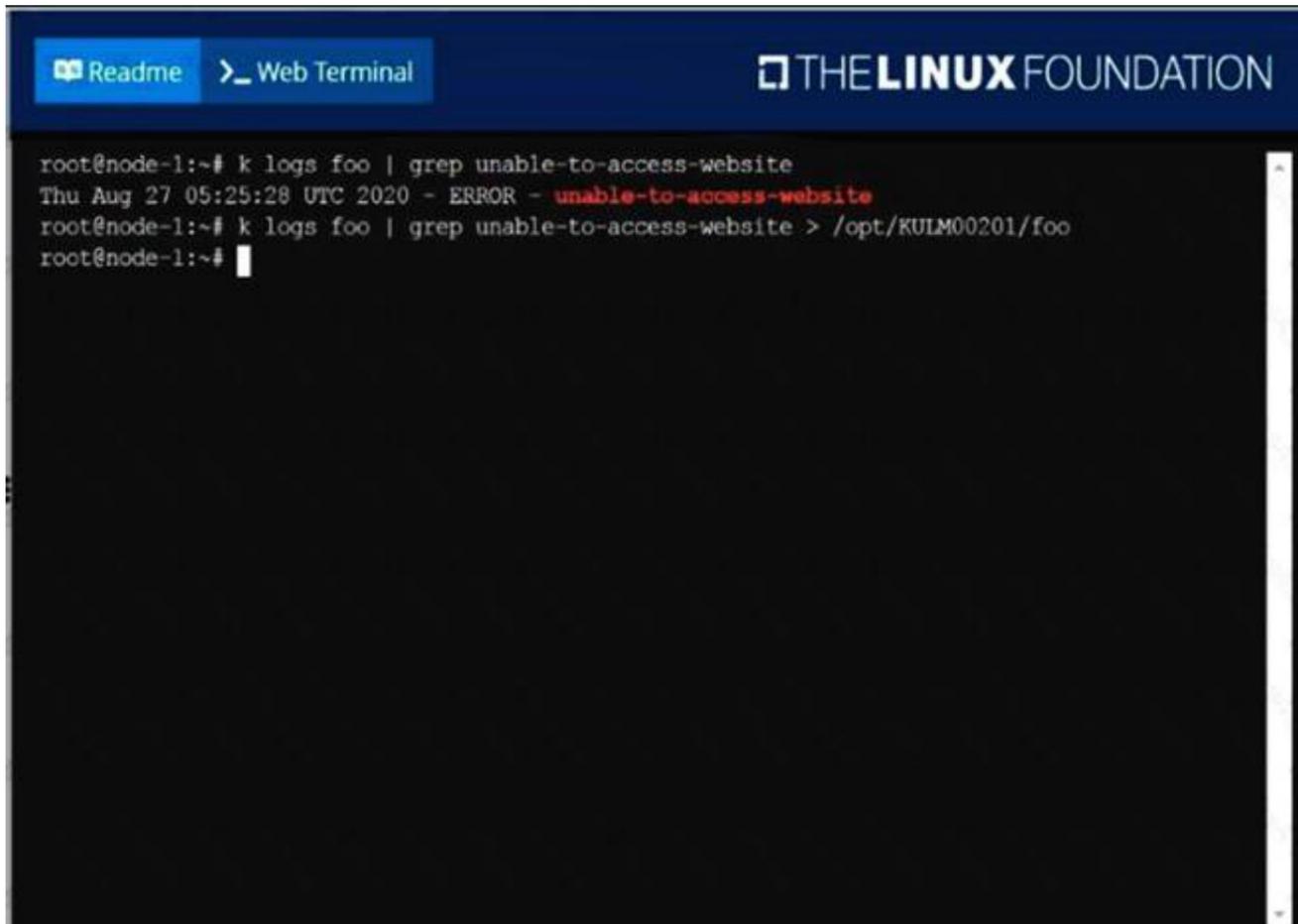
**Answer:** A

**Explanation:**

solution  
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```

root@node-1:~# k logs foo | grep unable-to-access-website
Thu Aug 27 05:25:28 UTC 2020 - ERROR - unable-to-access-website
root@node-1:~# k logs foo | grep unable-to-access-website > /opt/KULM00201/foo
root@node-1:~#

```

**NEW QUESTION 3**

List the nginx pod with custom columns POD\_NAME and POD\_STATUS

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

kubectl get po -o=custom-columns="POD\_NAME:.metadata.name, POD\_STATUS:.status.containerStatuses[].state"

**NEW QUESTION 4**

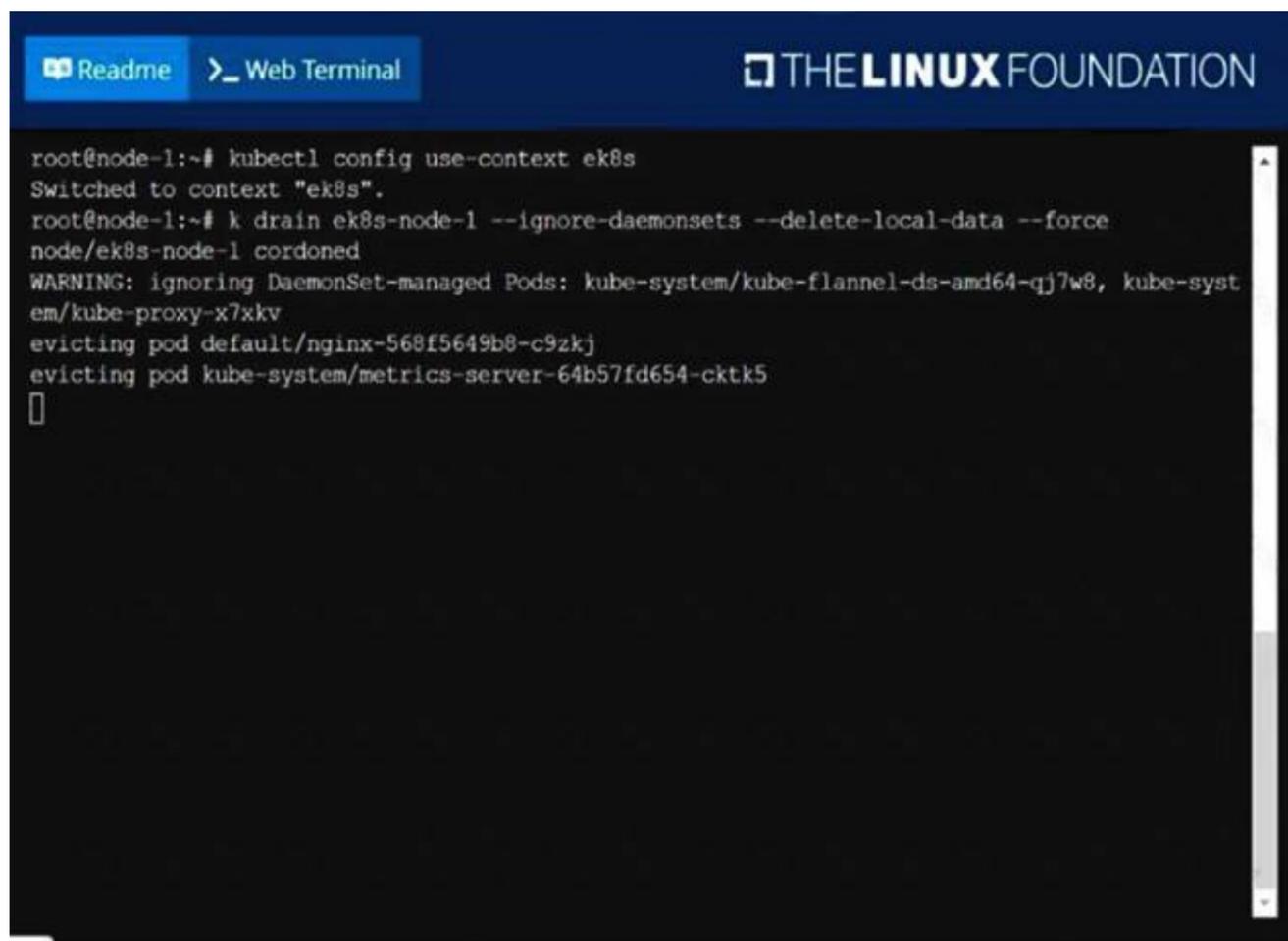
Set the node named ek8s-node-1 as unavailable and reschedule all the pods running on it.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

solution  
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```

root@node-1:~# kubectl config use-context ek8s
Switched to context "ek8s".
root@node-1:~# k drain ek8s-node-1 --ignore-daemonsets --delete-local-data --force
node/ek8s-node-1 cordoned
WARNING: ignoring DaemonSet-managed Pods: kube-system/kube-flannel-ds-amd64-qj7w8, kube-syst
em/kube-proxy-x7xkv
evicting pod default/nginx-568f5649b8-c9zkj
evicting pod kube-system/metrics-server-64b57fd654-cktk5

```

#### NEW QUESTION 5

List all the pods sorted by name

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

kubect1 get pods --sort-by=.metadata.name

#### NEW QUESTION 6

Create a namespace called 'development' and a pod with image nginx called nginx on this namespace.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

kubect1 create namespace development  
kubect1 run nginx --image=nginx --restart=Never -n development

#### NEW QUESTION 7

A Kubernetes worker node, namedwk8s-node-0is in stateNotReady.Investigate why this is the case, andperform any appropriate steps tobring the node to aReadystate,ensuring that any changes are madepermanent.

You cansshto the failednode using:

[student@node-1] \$ | sshWk8s-node-0

You can assume elevatedprivileges on the node with thefollowing command:

[student@w8ks-node-0] \$ |sudo ?Ci

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

solution  
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```

Readme Web Terminal THE LINUX FOUNDATION

root@node-1:~# kubectl config use-context wk8s
Switched to context "wk8s".
root@node-1:~# k get nodes
NAME          STATUS    ROLES    AGE   VERSION
wk8s-master-0 Ready     master   77d   v1.18.2
wk8s-node-0   NotReady <none>   77d   v1.18.2
wk8s-node-1   Ready     <none>   77d   v1.18.2
root@node-1:~# ssh wk8s-node-0

```

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```

Readme Web Terminal THE LINUX FOUNDATION

wk8s-node-0   NotReady <none>   77d   v1.18.2
wk8s-node-1   Ready     <none>   77d   v1.18.2
root@node-1:~# ssh wk8s-node-0
Welcome to Ubuntu 16.04.6 LTS (GNU/Linux 4.4.0-1109-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

 * Are you ready for Kubernetes 1.19? It's nearly here! Try RC3 with
   sudo snap install microk8s --channel=1.19/candidate --classic

   https://microk8s.io/ has docs and details.

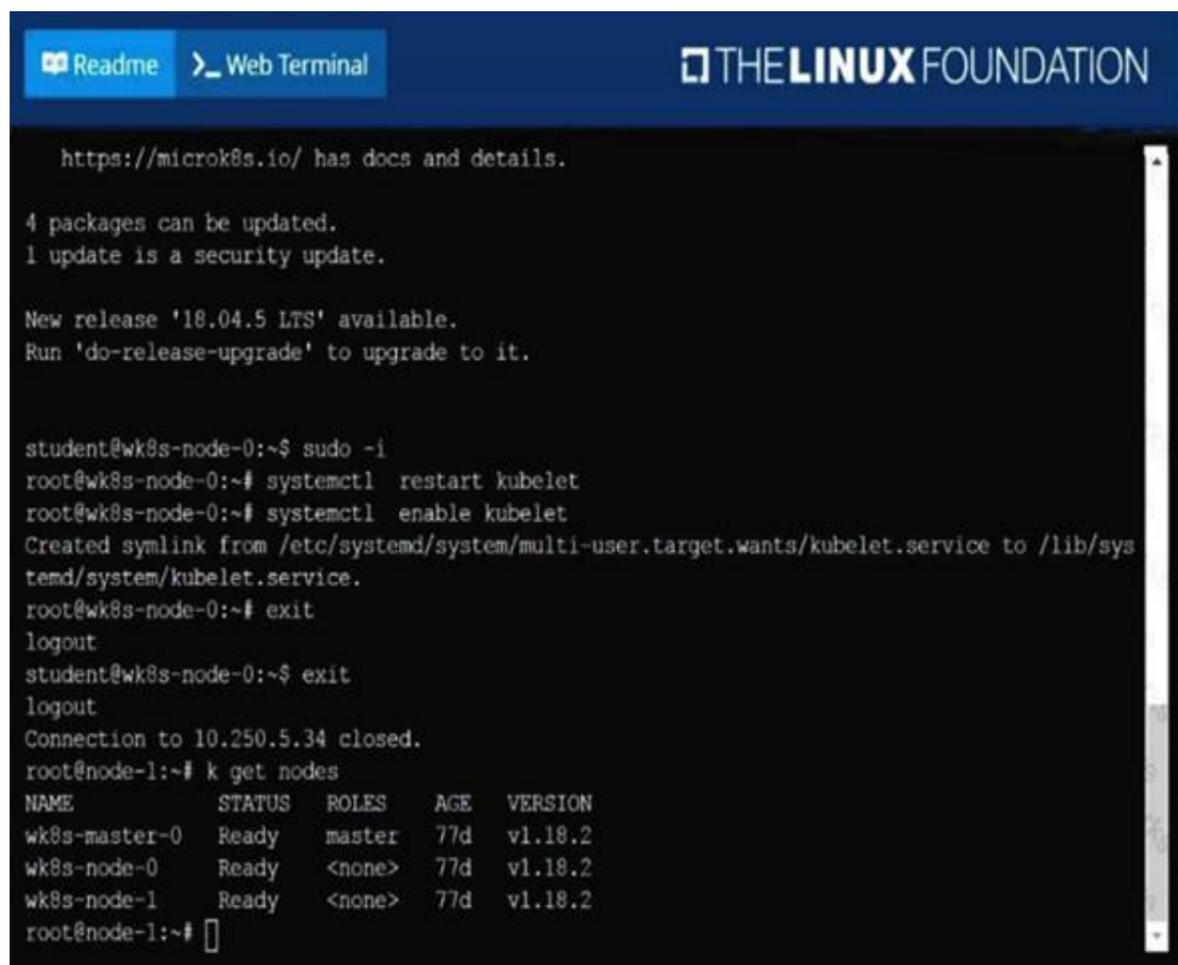
4 packages can be updated.
1 update is a security update.

New release '18.04.5 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

student@wk8s-node-0:~$ sudo -i
root@wk8s-node-0:~# systemctl restart kubelet
root@wk8s-node-0:~# systemctl enable kubelet

```

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```

https://microk8s.io/ has docs and details.

4 packages can be updated.
1 update is a security update.

New release '18.04.5 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

student@wk8s-node-0:~$ sudo -i
root@wk8s-node-0:~# systemctl restart kubelet
root@wk8s-node-0:~# systemctl enable kubelet
Created symlink from /etc/systemd/system/multi-user.target.wants/kubelet.service to /lib/systemd/system/kubelet.service.
root@wk8s-node-0:~# exit
logout
student@wk8s-node-0:~$ exit
logout
Connection to 10.250.5.34 closed.
root@node-1:~# k get nodes
NAME           STATUS    ROLES    AGE   VERSION
wk8s-master-0  Ready    master   77d   v1.18.2
wk8s-node-0    Ready    <none>   77d   v1.18.2
wk8s-node-1    Ready    <none>   77d   v1.18.2
root@node-1:~#

```

**NEW QUESTION 8**

Check the image version in pod without the describe command

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

kubectl get po nginx -o jsonpath='{.spec.containers[].image}'

**NEW QUESTION 9**

Perform the following tasks:

- > Add an init container tohungry-bear(which has beendefined in spec file /opt/KUCC00108/pod-spec-KUCC00108.yaml)
- > The init container should createan empty file named/workdir/calm.txt
- > If/workdir/calm.txtis notdetected, the pod should exit
- > Once the spec file has beenupdatedwith the init containerdefinition, the pod should becreated

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

solution  
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```

Readme Web Terminal THE LINUX FOUNDATION

root@node-1:~# vim ds.yaml
iroot@node-1:~# k create -f ds.yaml
daemonset.apps/ds-kusc00201 created
root@node-1:~# k get ds
NAME           DESIRED  CURRENT  READY  UP-TO-DATE  AVAILABLE  NODE SELECTOR  AGE
ds-kusc00201   2        2        2      2           2          <none>         4s
root@node-1:~# vim /opt/KUCC00108/pod-spec-KUCC00108.yaml

```

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```

Readme Web Terminal THE LINUX FOUNDATION

apiVersion: v1
kind: Pod
metadata:
  name: hungry-bear
spec:
  volumes:
  - name: workdir
    emptyDir: {}
  containers:
  - name: checker
    image: alpine
    command: ["/bin/sh", "-c", "if [ -f /workdir/caln.txt ];
              then sleep 100000; else exit 1; fi"]
    volumeMounts:
    - name: workdir
      mountPath: /workdir
  initContainers:
  - name: create
    image: alpine
    command: ["/bin/sh", "-c", "touch /workdir/caln.txt"]
    volumeMounts:
    - name: workdir
      mountPath: /workdir
:~#

```

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```

Readme Web Terminal THE LINUX FOUNDATION
root@node-1:~# vim ds.yaml
root@node-1:~# k create -f ds.yaml
daemonset.apps/ds-kusc00201 created
root@node-1:~# k get ds
NAME          DESIRED  CURRENT  READY  UP-TO-DATE  AVAILABLE  NODE SELECTOR  AGE
ds-kusc00201  2        2        2      2           2          <none>         4s
root@node-1:~# vim /opt/KUCC00108/pod-spec-KUCC00108.yaml
root@node-1:~# k create -f /opt/KUCC00108/pod-spec-KUCC00108.yaml
pod/hungry-bear created
root@node-1:~#

```

**NEW QUESTION 10**

Create and configure the service front-end-services so it's accessible through NodePort and routes to the existing pod named front-end.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

solution  
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```

Readme Web Terminal THE LINUX FOUNDATION
root@node-1:~# k expose po
error: resource(s) were provided, but no name, label selector, or --all flag specified
See 'kubectl expose -h' for help and examples
root@node-1:~# k expose po front-end --name=front-end-service --port=80 --target-port=80 --t
ype=NodePort
Error from server (NotFound): pods "fron-end" not found
root@node-1:~# k expose po front-end --name=front-end-service --port=80 --target-port=80 --
type=NodePort
service/front-end-service exposed
root@node-1:~# k get svc
NAME          TYPE          CLUSTER-IP    EXTERNAL-IP  PORT(S)          AGE
front-end-service  NodePort     10.103.221.227 <none>       80:31828/TCP    3s
kubernetes     ClusterIP    10.96.0.1     <none>       443/TCP         77d
root@node-1:~#

```

**NEW QUESTION 10**

List all the pods sorted by name

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

kubectl get pods --sort-by=.metadata.name

**NEW QUESTION 15**

List all the pods sorted by created timestamp

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

kubect1 get pods--sort-by=.metadata.creationTimestamp

**NEW QUESTION 17**

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