

# CKA<sup>Q&As</sup>

Certified Kubernetes Administrator (CKA) Program

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### QUESTION 1

Check the Image version of nginx-dev pod using jsonpath

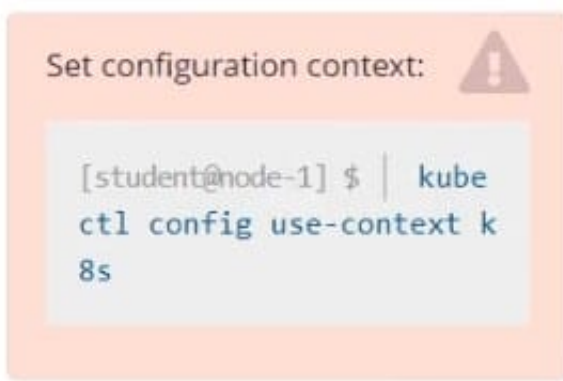
Correct Answer: Check the answer in explanation.

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

---

### QUESTION 2

CORRECT TEXT



Task Monitor the logs of pod bar and: Extract log lines corresponding to error file-not-found

Write them to /opt/KUTR00101/bar

Correct Answer: Check the answer in explanation.

```
kubectl logs bar | grep '\unable-to-access-website\' > /opt/KUTR00101/bar cat /opt/KUTR00101/bar
```

---

### QUESTION 3

CORRECT TEXT



#### Task

From the pod label name=cpu-utilizer, find pods running high CPU workloads and write the name of the pod consuming most CPU to the file /opt/KUTR00401/KUTR00401.txt (which already exists).

Correct Answer: Check the answer in explanation.

```
kubectl top -l name=cpu-user -A echo '\pod name\' >> /opt/KUT00401/KUT00401.txt
```

---

#### QUESTION 4

List all the pods sorted by created timestamp

Correct Answer: Check the answer in explanation.

```
kubectl get pods--sort-by=.metadata.creationTimestamp
```

---

#### QUESTION 5

##### SIMULATION

Perform the following tasks: Add an init container to hungry-bear (which has been defined in spec file /opt/KUCC00108/pod-spec-KUCC00108.yaml) The init container should create an empty file named /workdir/calm.txt If /workdir/calm.txt is not detected, the pod should exit Once the spec file has been updated with the init container definition, the pod should be created

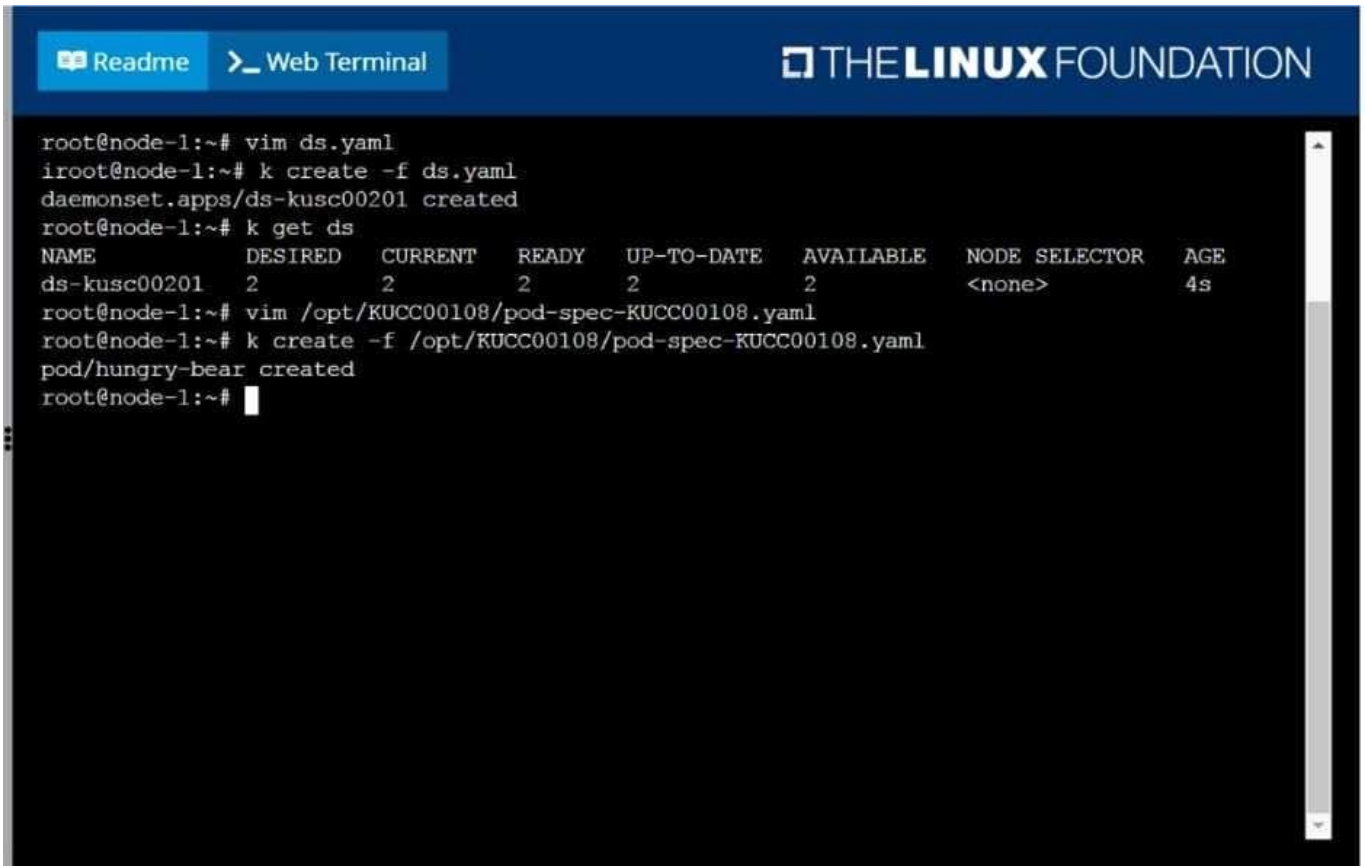
Correct Answer: Check the answer in explanation.

```
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
```

```
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/calm.txt ];
              then sleep 100000; else exit 1; fi"]
    volumeMounts:
    - name: workdir
      mountPath: /workdir
  initContainers:
  - name: create
    image: alpine
    command: ["/bin/sh", "-c", "touch /workdir/calm.txt"]
    volumeMounts:
    - name: workdir
      mountPath: /workdir
:W<
```



The screenshot shows a web terminal interface with a dark background and white text. At the top, there are two tabs: 'Readme' and 'Web Terminal'. The 'Web Terminal' tab is active. In the top right corner, the 'THE LINUX FOUNDATION' logo is visible. The terminal content shows a series of commands and their outputs:

```
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
root@node-1:~# k create -f /opt/KUCC00108/pod-spec-KUCC00108.yaml
pod/hungry-bear created
root@node-1:~#
```

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