



Free Questions for CKA by certscare

Shared by Huffman on 06-06-2022

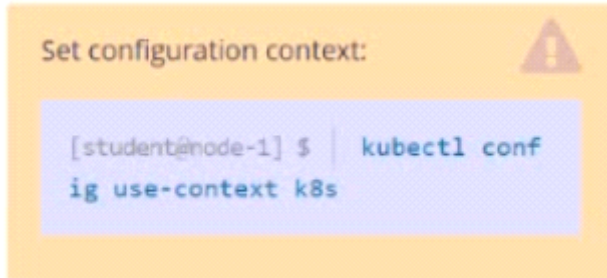
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Question 1

Question Type: MultipleChoice

Task Weight: 4%



The image shows a terminal window with a yellow background. At the top left, it says "Set configuration context:". To the right of this text is a warning icon (a triangle with an exclamation mark). Below this, there is a blue box containing a terminal prompt and a command. The prompt is "[student@node-1] \$" and the command is "kubectl config use-context k8s".

Task

Schedule a Pod as follows:

* Name: kucc1

* App Containers: 2

* Container Name/Images:

nginx

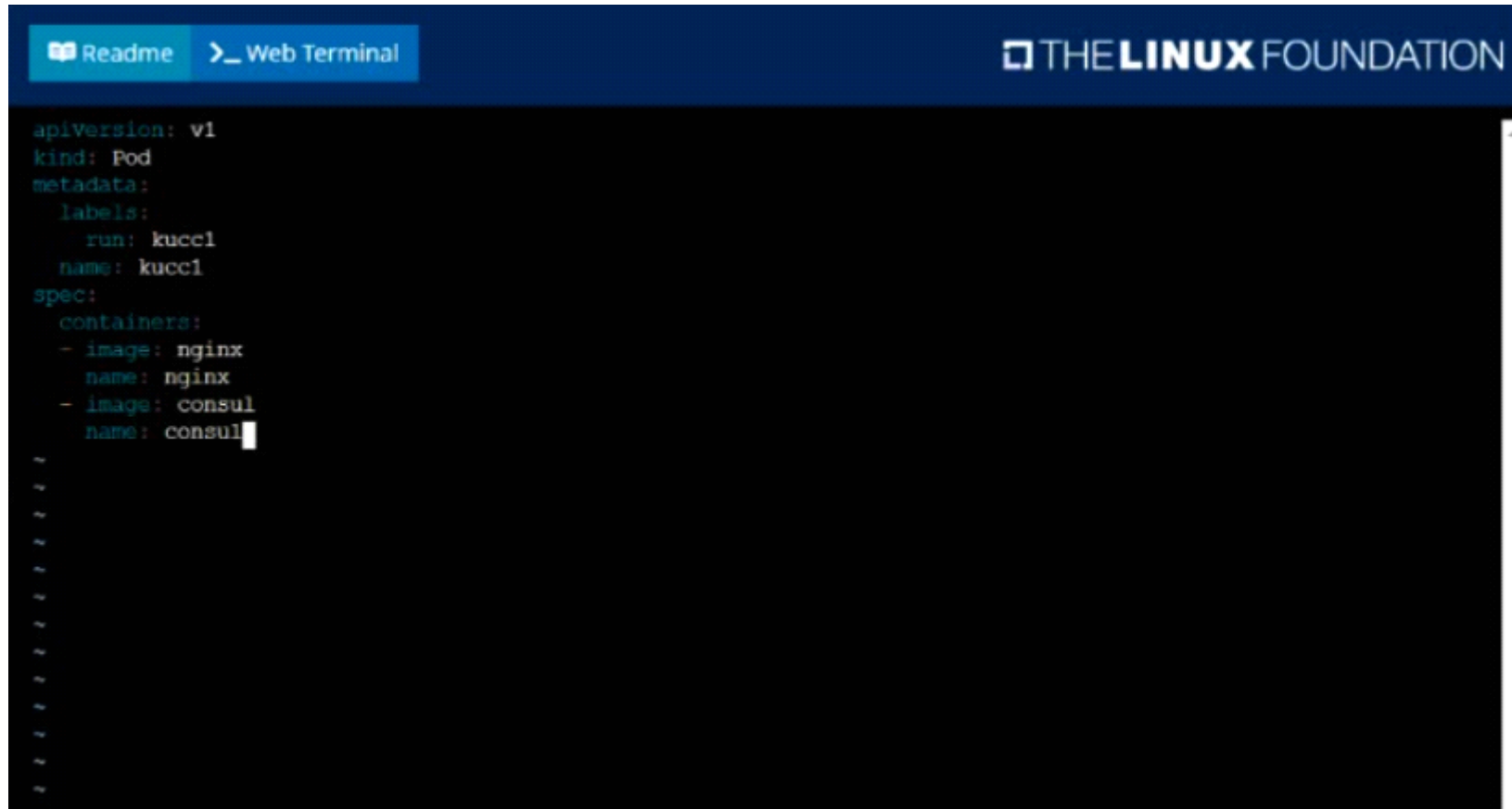
consul

Options:

A- Explanation:

Solution:

```
student@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
student@node-1:~$ kubectl run kuccl --image=nginx --dry-run=client -o yaml > aa.y
```



```
apiVersion: v1
kind: Pod
metadata:
  labels:
    run: kuccl
    name: kuccl
spec:
  containers:
  - image: nginx
    name: nginx
  - image: consul
    name: consul
```

```
student@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
student@node-1:~$ kubectl run kuccl --image=nginx --dry-run=client -o yaml > aa.yaml
student@node-1:~$ vim aa.yaml
student@node-1:~$ kubectl create -f aa.yaml
pod/kuccl created
student@node-1:~$ kubectl get pods
NAME                                READY   STATUS              RESTARTS   AGE
ll-factor-app                       1/1    Running            0          6h34m
cpu-loader-98b9se                   1/1    Running            0          6h33m
cpu-loader-ab2d3s                   1/1    Running            0          6h33m
cpu-loader-kipb9a                   1/1    Running            0          6h33m
foobar                               1/1    Running            0          6h34m
front-end-6bc87b9748-24rcm          1/1    Running            0          5m4s
front-end-6bc87b9748-hd5wp          1/1    Running            0          5m2s
kuccl                                0/2    ContainerCreating  0          3s
nginx-kusc00401                     1/1    Running            0          2m28s
webserver-84c89dfd75-2dljn          1/1    Running            0          6h38m
webserver-84c89dfd75-8d8x2         1/1    Running            0          6h38m
webserver-84c89dfd75-z5zz4         1/1    Running            0          3m51s
student@node-1:~$
```


Answer:

A

Question 2

Question Type: MultipleChoice

Score: 13%

Set configuration context: 

```
[student@node-1] $ | kube  
ctl config use-context w  
k8s
```

Task

A Kubernetes worker node, named wk8s-node-0 is in state NotReady. Investigate why this is the case, and perform any appropriate steps to bring the node to a Ready state, ensuring that any changes are made permanent.

You can `ssh` to the failed node using:



```
[student@node-1] $ | ssh  
wk8s-node-0
```

You can assume elevated privileges on the node with the following command:

```
[student@wk8s-node-0] $ |  
sudo -i
```

Options:

A- Explanation:

Solution:

```
sudo -i
```

```
systemctl status kubelet
```

```
systemctl start kubelet
```

```
systemctl enable kubelet
```


Answer:

A

Question 3

Question Type: MultipleChoice

Score: 5%

```
Set configuration context:   
[student@node-1] $ | kube  
ctl config use-context k  
8s
```

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).

Options:

A- Explanation:

Solution:

```
kubectrl top -l name=cpu-user -A
```

```
echo 'pod name' >> /opt/KUT00401/KUT00401.txt
```

Answer:

A

Question 4

Question Type: MultipleChoice

Create a busybox pod and add "sleep 3600" command

Options:

A- Explanation:

```
kubectrl run busybox --image=busybox --restart=Never -- /bin/sh -c
```

```
'sleep 3600'
```


Answer:

A

Question 5

Question Type: MultipleChoice

Print pod name and start time to "/opt/pod-status" file

Options:

A- Explanation:

```
kubect1 get pods -o=jsonpath='{range
.items[*]}{.metadata.name}{\t}{.status.podIP}{\n'}{end}'
```

Answer:

A

Question 6

Question Type: MultipleChoice

Create 2 nginx image pods in which one of them is labelled with env=prod and another one labelled with env=dev and verify the same.

Options:

A- Explanation:

kubectl run --generator=run-pod/v1 --image=nginx -- labels=env=prod nginx-prod --dry-run -o yaml > nginx-prodpod.yaml Now, edit nginx-prod-pod.yaml file and remove entries like "creationTimestamp: null" "dnsPolicy: ClusterFirst"

```
vim nginx-prod-pod.yaml
```

```
apiVersion: v1
```

```
kind: Pod
```

```
metadata:
```

```
labels:
```

```
env: prod
```

```
name: nginx-prod
```

```
spec:
```

```
containers:
```

```
- image: nginx
```

```
name: nginx-prod
```

```
restartPolicy: Always
```

```
# kubectl create -f nginx-prod-pod.yaml
```

```
kubectl run --generator=run-pod/v1 --image=nginx --
```

```
labels=env=dev nginx-dev --dry-run -o yaml > nginx-dev-pod.yaml
```

```
apiVersion: v1
kind: Pod
metadata:
labels:
env: dev
name: nginx-dev
spec:
containers:
- image: nginx
name: nginx-dev
restartPolicy: Always
# kubectl create -f nginx-prod-dev.yaml
Verify :
kubectl get po --show-labels
kubectl get po -l env=prod
kubectl get po -l env=dev
```

Answer:

A

Question 7

Question Type: MultipleChoice

Create a pod that having 3 containers in it? (Multi-Container)

Options:

A- Explanation:

image=nginx, image=redis, image=consul

Name nginx container as "nginx-container"

Name redis container as "redis-container"

Name consul container as "consul-container"

Create a pod manifest file for a container and append container section for rest of the images

```
kubectl run multi-container --generator=run-pod/v1 --image=nginx --dry-run -o yaml > multi-container.yaml
```

then

```
vim multi-container.yaml
```

```
apiVersion: v1
```

```
kind: Pod
```

```
metadata:
```

```
labels:
```

```
run: multi-container
```

```
name: multi-container
```

```
spec:
```

```
containers:
```

```
- image: nginx
```

name: nginx-container
- image: redis
name: redis-container
- image: consul
name: consul-container
restartPolicy: Always

Answer:

A

Question 8

Question Type: MultipleChoice

Check the image version in pod without the describe command

Options:

A- Explanation:

```
kubectl get po nginx -o
```

```
jsonpath='{.spec.containers[].image}'{'\n'}
```

Answer:

A

Question 9

Question Type: MultipleChoice

Get list of all the pods showing name and namespace with a jsonpath expression.

Options:

A- Explanation:

```
kubectl get pods -o=jsonpath='{.items[*][\'metadata.name\'  
, \'metadata.namespace\']}
```

Answer:

A

Question 10

Question Type: MultipleChoice

Print pod name and start time to "/opt/pod-status" file

Options:

A- Explanation:

```
kubect1 get pods -o=jsonpath='{range .items[*]}{.metadata.name}{\t}{.status.podIP}{\n'}{end}'
```

Answer:

A

Question 11

Question Type: MultipleChoice

Create a pod that having 3 containers in it? (Multi-Container)

Options:

A- Explanation:

image=nginx, image=redis, image=consul

Name nginx container as "nginx-container"

Name redis container as "redis-container"

Name consul container as "consul-container"

Create a pod manifest file for a container and append container section for rest of the images

```
kubectl run multi-container --generator=run-pod/v1 --image=nginx --dry-run -o yaml > multi-container.yaml
```

then

```
vim multi-container.yaml
```

```
apiVersion: v1
```

```
kind: Pod
```

```
metadata:
```

```
labels:
```

```
run: multi-container
```

```
name: multi-container
```

```
spec:
```

```
containers:
```

```
- image: nginx
```

```
name: nginx-container
```

```
- image: redis
```

```
name: redis-container
```

```
- image: consul
```


name: consul-container
restartPolicy: Always

Answer:

A

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