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

Certified Kubernetes Application Developer (CKAD) Program

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#### **QUESTION 1**

#### CORRECT TEXT



#### Context

A project that you are working on has a requirement for persistent data to be available.

Task

To facilitate this, perform the following tasks:

1.

Create a file on node sk8s-node-0 at /opt/KDSP00101/data/index.html with the content Acct=Finance

2.

Create a PersistentVolume named task-pv-volume using hostPath and allocate 1Gi to it, specifying that the volume is at /opt/KDSP00101/data on the cluster\\'s node.

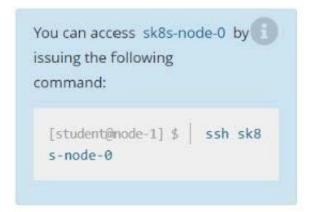
The configuration should specify the access mode of ReadWriteOnce. It should define the StorageClass name exam for the PersistentVolume, which will be used to bind PersistentVolumeClaim requests to this PersistenetVolume.

1.

Create a PefsissentVolumeClaim named task-pv-claim that requests a volume of at least 100Mi and specifies an access mode of ReadWriteOnce

2.

Create a pod that uses the PersistentVolmeClaim as a volume with a label app: my- storage-app mounting the resulting volume to a mountPath /usr/share/nginx/html inside the pod



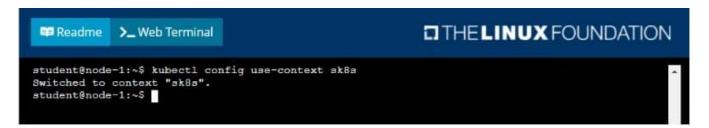
Ensure that you return to the base node (with hostname node-1 ) once you have completed your work on sk8s-node-0 Ocopy

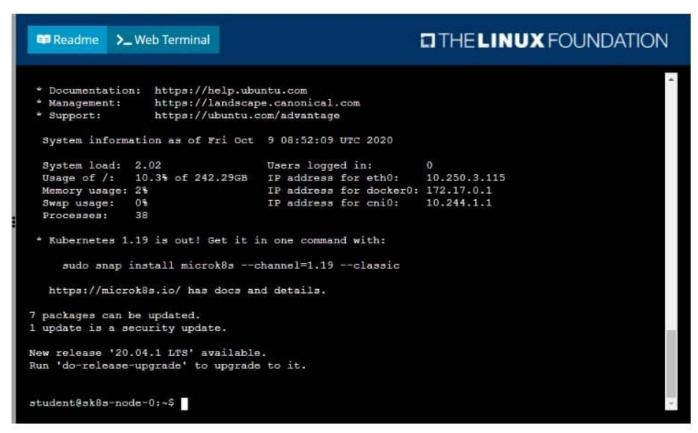
- A. Please check explanations
- B. Place Holder

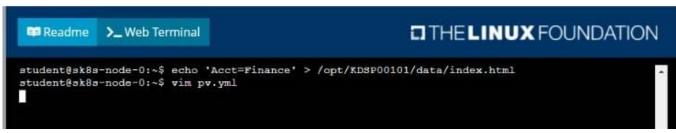
Correct Answer: A

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```
student8sk8s-node-0:-$ kubectl create -f pv.yml
persistentvolume/tesk-pv-volume created
student0sk8s-node-0:-$ kubectl created
student0sk8s-node-0:-$ vim pod.yml
persistentvolumeclesin/tesk-pv-claim created
student0sk8s-node-0:-$ vim pod.yml
RECLAIM POLICY STATUS
REASON ASS

TESKO ASS

TESKO ASS

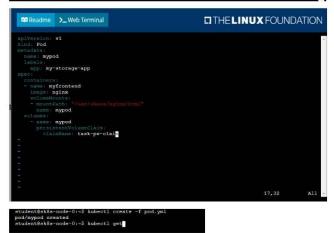
TESKO RELAIM POLICY STATUS

TO BELLAIM STO BELLAIM POLICY STATUS

TO BELLAIM STO BELLAIM STO BELLAIM POLICY STATUS

TO BELLAIM STATUS

TO BELLAIM
```



```
### Readme 

### Design  

##
```

#### **QUESTION 2**

#### **CORRECT TEXT**



#### Context

It is always useful to look at the resources your applications are consuming in a cluster.

Task

From the pods running in namespace cpu-stress, write the name only of the pod that is consuming the most CPU to file /opt/KDOBG030I/pod.txt, which has already been created.

A. Please check explanations

B. Place Holder

Correct Answer: A

#### **QUESTION 3**

**CORRECT TEXT** 

You must switch to the correct
cluster/configuration context. Failure to do so
may result in a zero score.

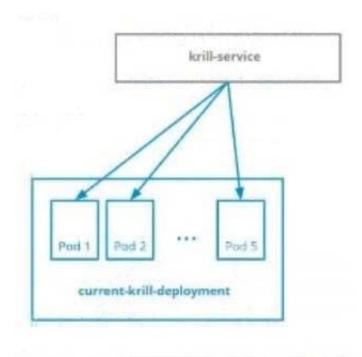
[candidate@node-1] \$ kubect1 config use-c
ontext sk8s

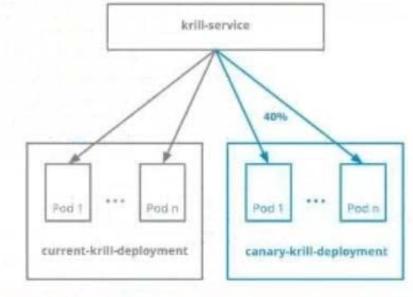
#### Context

You are asked to prepare a Canary deployment for testing a new application release.

#### Task:

A Service named krill-Service in the goshark namespace points to 5 pod created by the Deployment named current-krill-deployment





The Service is exposed on NodePort 30000. To test its load-balanting.

Funt:

[cardidateGrode 1] \$ car1 http://k8s master 6:28866/

- A. Please check explanations
- B. Place Holder

Correct Answer: A

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```
File Edit View Terminal Tabs Help
2022-09-24 11:43:52 (15.0 MB/s) - 'quota-pod.yaml' saved [90/90]
candidate@node-1:~/humane-stork$ vim quota-pod.yaml
candidate@node-1:~/humane-storkS kubectl create -f quota-pod.yaml
rescurcequota/pod-demo created
candidate@node-1:-/humane-storkS kubectl get quota -n go
No resources found in go namespace.
candidate@node-1:~/humane-stork$ kubectl get quota -n goshawk
            AGE REQUEST
NAME
                                  LIMIT
           19s pods: 9/10
pod-demo
candidate@node-1:-/humane-stork$ curl http://k8s-master-0:30000/
current-krill-deployment-fb7c7995c-kvtjr
app.kubernetes.io/name="current
app.kubernetes.io/part-of="krill"
pod-template-hash="fb7c7995c"candidate@node-1:-/humane-stork$ curl http://k8s-master-0:30000/
current-krill-deployment-fb7c7995c-4whfm
app.kubernetes.io/name="current"
app.kubernetes.io/part-of="krill"
pod-template-hash="fb7c7995c'candidate@node-1:~/humane-stork$ curl http://k8s-master-0:30000/
canary-krill-deployment-5f78fd4786-dfk7l
app.kubernetes.io/name="canary
app.kubernetes.io/part-of="krill"
pod-template-hash="5f78fd4786"candidate@node-1:-/humane-stork$ curl http://k8s-master-0:30000/
canary-krill-deployment-5f78fd4786-z5zrt
app.kubernetes.io/name="canary" app.kubernetes.io/part-of="krill" pod-template-hash="5f78fd4786"candidate@node-1:~/humane-stork$ curl http://k8s-master-0:30000/
canary-krill-deployment-5f78fd4786-2774b
app.kubernetes.io/name="canary"
app.kubernetes.io/part-of="krill"
pod-template-hash="5f78fd4786"candidate@node-1:~/humane-stork$ |
```

#### **QUESTION 4**

**CORRECT TEXT** 



#### Context

Developers occasionally need to submit pods that run periodically.

Task

Follow the steps below to create a pod that will start at a predetermined time and]which runs to completion only once each time it is started:

Create a YAML formatted Kubernetes manifest /opt/KDPD00301/periodic.yaml that runs the following shell command: date in a single busybox container.

The command should run every minute and must complete within 22 seconds or be terminated by Kubernetes. The Cronjob name and container name should both be hello

Create the resource in the above manifest and verify that the job executes successfully at least once

A. Please check explanations

B. Place Holder

Correct Answer: A

```
student@node-1:~$ kubectl create cronjob hello --image=busybox --schedule "* * * * * * --dry-run= client -o yml > /opt/KDPD00301/periodic.yaml
error: unable to match a printer suitable for the output format "yml", allowed formats are: go-t emplate, go-template-file, json, jsonpath, jsonpath-as-json, jsonpath-file, name, template, templatefile, yaml
student@node-1:~$ kubectl create cronjob hello --image=busybox --schedule "* * * * * --dry-run= client -o yaml > /opt/KDPD00301/periodic.yaml
student@node-1:~$ vim /opt/KDPD00301/periodic.yaml
```

```
apiVersion: batch/vibetal
kind: CronJob
metadata:
    name: hello
apec:
    jobTemplate:
    name: hello
apec:
    jobTemplate:
    spec:
    containers:
        - image: busybox
        name: hello
args: [//bin/on*, "-o", "date"]
    restartFolicy: Never
    schedule: '/' **
    startingDeadlineSeconds: 22
    concurrencyFolicy: Allo
```

```
Readme
             >_ Web Terminal
                                                              THE LINUX FOUNDATION
student@node-1:~$ kubectl create cronjob hello --image=busybox --schedule "* * * * * " --dry-run=
client -o yml > /opt/KDPD00301/periodic.yaml
error: unable to match a printer suitable for the output format "yml", allowed formats are: go-t
emplate, go-template-file, json, jsonpath, jsonpath-as-json, jsonpath-file, name, template, templatefile
, yaml
student@node-1:~$ kubectl create cronjob hello --image=busybox --schedule "* * * * * " --dry-run=
client -o yaml > /opt/KDPD00301/periodic.yaml
student@node-1:~$ vim /opt/KDPD00301/periodic.yaml
student@node-1:~$ kubectl create -f /opt/KDPD00301/periodic.yaml
cronjob.batch/hello created
student@node-1:~$ kubectl get cronjob
       SCHEDULE
                      SUSPEND ACTIVE
                                           LAST SCHEDULE
                                                            AGE
        +/1 + + + +
hello
                      False
                                           <none>
                                                            65
student@node-1:~$
```

#### **QUESTION 5**

#### **CORRECT TEXT**



#### Context

A user has reported an application is unreachable due to a failing livenessProbe .

Task

Perform the following tasks:

Find the broken pod and store its name and namespace to /opt/KDOB00401/broken.txt in the format:



The output file has already been created

1.

Store the associated error events to a file /opt/KDOB00401/error.txt, The output file has already been created. You will need to use the -o wide output specifier with your command

2.

Fix the issue.

# The associated deployment could be running in any of the following namespaces:



- qa
- test
- production
- alan

A. Please check explanations

B. Place Holder

Correct Answer: A

Create the Pod: kubectl create -f http://k8s.io/docs/tasks/configure-pod-container/exec-liveness.yaml Within 30 seconds, view the Pod events: kubectl describe pod liveness-exec The output indicates that no liveness probes have failed yet: FirstSeen LastSeen Count From SubobjectPath Type Reason Message ------ ---- ---------- 24s 24s 1 {default-scheduler } Normal Scheduled Successfully assigned liveness-exec to worker0 23s 23s 1 {kubelet worker0} spec.containers{liveness} Normal Pulling pulling image "gcr.io/google\_containers/busybox" 23s 23s 1 {kubelet worker0} spec.containers{liveness} Normal Pulled Successfully pulled image "gcr.io/google\_containers/busybox" 23s 23s 1 {kubelet worker0} spec.containers{liveness} Normal Created Created container with docker id 86849c15382e; Security:[seccomp=unconfined] 23s 23s 1 {kubelet worker0} spec.containers{liveness} Normal Started Started container with docker id 86849c15382e After 35 seconds, view the Pod events again: kubectl describe pod liveness-exec At the bottom of the output, there are messages indicating that the liveness probes have failed, and the containers have been killed and recreated. FirstSeen LastSeen Count From SubobjectPath Type Reason Message ------ ---- ---- 37s 37s 1 {default-scheduler } Normal Scheduled Successfully assigned liveness-exec to worker 36s 36s 1 {kubelet worker0} spec.containers{liveness} Normal Pulling pulling image "gcr.io/google\_containers/busybox" 36s 36s 1 {kubelet worker0} spec.containers{liveness} Normal Pulled Successfully pulled image "gcr.io/google\_containers/busybox" 36s 36s 1 {kubelet worker0} spec.containers{liveness} Normal Created Created container with docker id 86849c15382e; Security:[seccomp=unconfined] 36s 36s 1 {kubelet worker0} spec.containers{liveness} Normal Started Started container with docker id 86849c15382e 2s 2s 1 {kubelet worker0} spec.containers{liveness} Warning Unhealthy Liveness probe failed: cat: can\\'t open \\'/tmp/healthy\\': No such file or directory Wait another 30 seconds, and verify that the Container has been restarted: kubectl get pod liveness-exec The output shows that RESTARTS has been incremented: NAME READY STATUS RESTARTS AGE liveness-exec 1/1 Running 1 m

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