



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

Certified Kubernetes Application Developer (CKAD) Program

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## QUESTION 1

### CORRECT TEXT

No configuration context change is required for this task.

Task:

A Dockerfile has been prepared at `~/humane-stork/build/Dockerfile`

Multiple image builders and tools have been pre-installed in the base system, including: `docker`, `skopeo`, `buildah`, `img`, and `podman`.

Please do **not** push the built image to a registry, run a container, or otherwise consume it.

A. Please check explanations

B. Place Holder

Correct Answer: A

```
candidate@node-1:~$ cd humane-stork/build/
candidate@node-1:~/humane-stork/build$ ls -l
total 16
-rw-r--r-- 1 candidate candidate 201 Sep 24 04:21 Dockerfile
-rw-r--r-- 1 candidate candidate 644 Sep 24 04:21 text1.html
-rw-r--r-- 1 candidate candidate 813 Sep 24 04:21 text2.html
-rw-r--r-- 1 candidate candidate 383 Sep 24 04:21 text3.html
candidate@node-1:~/humane-stork/build$ sudo docker build -t macaque:3.0 .
Sending build context to Docker daemon 6.144kB
Step 1/5 : FROM docker.io/lfccncf/nginx:mainline
--> ea335eeal7ab
Step 2/5 : ADD text1.html /usr/share/nginx/html/
--> 8967ee9ee5d0
Step 3/5 : ADD text2.html /usr/share/nginx/html/
--> cb0554422f26
Step 4/5 : ADD text3.html /usr/share/nginx/html/
--> 62e879ab821e
Step 5/5 : COPY text2.html /usr/share/nginx/html/index.html
--> 331c8a94372c
Successfully built 331c8a94372c
Successfully tagged macaque:3.0
candidate@node-1:~/humane-stork/build$ sudo docker save macaque:3.0 > ~/humane-stork/macaque-3.0.tar
candidate@node-1:~/humane-stork/build$ cd ..
candidate@node-1:~/humane-stork$ ls -l
total 142532
drwxr-xr-x 2 candidate candidate 4096 Sep 24 04:21 build
-rw-rw-r-- 1 candidate candidate 145948672 Sep 24 11:39 macaque-3.0.tar
candidate@node-1:~/humane-stork$
```

## QUESTION 2



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



```

Readme Web Terminal THE LINUX FOUNDATION
student@node-1:~$ kubectl create cronjob hello --image=busybox --schedule "*" * * * *" --dry-run=
client -o yaml > /opt/KDPD00301/periodic.yaml
error: unable to match a printer suitable for the output format "yaml", 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

```

```

Readme Web Terminal THE LINUX FOUNDATION
apiVersion: batch/v1beta1
kind: CronJob
metadata:
  name: hello
spec:
  jobTemplate:
    metadata:
      name: hello
    spec:
      template:
        spec:
          containers:
            - image: busybox
              name: hello
              args: ["/bin/sh", "-o", "date"]
          restartPolicy: Never
  schedule: */1 * * * *
  startingDeadlineSeconds: 22
  concurrencyPolicy: Allow

```

```

Readme Web Terminal THE LINUX FOUNDATION
student@node-1:~$ kubectl create cronjob hello --image=busybox --schedule "*" * * * *" --dry-run=
client -o yaml > /opt/KDPD00301/periodic.yaml
error: unable to match a printer suitable for the output format "yaml", 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
NAME          SCHEDULE          SUSPEND   ACTIVE   LAST SCHEDULE   AGE
hello         */1 * * * *       False    0        <none>           6s
student@node-1:~$

```



### QUESTION 3

#### CORRECT TEXT



#### Context

A web application requires a specific version of redis to be used as a cache.

#### Task

Create a pod with the following characteristics, and leave it running when complete:

1.

The pod must run in the web namespace.

2.

The namespace has already been created

3.

The name of the pod should be cache

4.

Use the lfccncf/redis image with the 3.2 tag

5.

Expose port 6379

A. Please check explanations

B. Place Holder

Correct Answer: A





```
Readme Web Terminal THE LINUX FOUNDATION

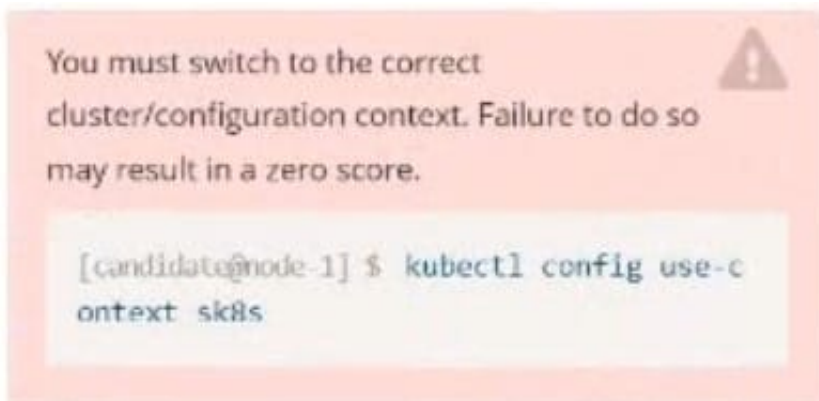
student@node-1:~$ kubectl run cache --image=lfcncf/redis:3.2 --port=6379 -n web
pod/cache created
student@node-1:~$ kubectl get pods -n web
NAME    READY   STATUS             RESTARTS   AGE
cache   0/1     ContainerCreating  0          6s
student@node-1:~$ kubectl get pods -n web
NAME    READY   STATUS    RESTARTS   AGE
cache   1/1     Running   0          9s
student@node-1:~$
```

#### QUESTION 4

CORRECT TEXT

```
Readme Web Terminal THE LINUX FOUNDATION

student@node-1:~$ kubectl top pods -n cpu-stress
NAME                CPU(cores)   MEMORY(bytes)
max-load-98b9se     68m          6Mi
max-load-ab2d3a     21m          6Mi
max-load-kipb9a     45m          6Mi
student@node-1:~$ echo "max-load-98b9se" > /opt/KDOB00301/pod.txt
```



Task:

Update the Deployment app-1 in the frontend namespace to use the existing ServiceAccount app.

- A. Please check explanations
- B. Place Holder

Correct Answer: A



```
File Edit View Terminal Tabs Help
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

candidate@node-1:~$ vi ~/spicy-pikachu/backend-deployment.yaml
candidate@node-1:~$ kubectl config use-context sk8s
Switched to context "sk8s".
candidate@node-1:~$ vim .vimrc
candidate@node-1:~$ vim ~/spicy-pikachu/backend-deployment.yaml
candidate@node-1:~$ kubectl apply -f ~/spicy-pikachu/backend-deployment.yaml
deployment.apps/backend-deployment configured
candidate@node-1:~$ kubectl get pods -n staging
NAME                                READY   STATUS    RESTARTS   AGE
backend-deployment-59d449b99d-cxct6 1/1     Running   0           20s
backend-deployment-59d449b99d-h2zjq 0/1     Running   0           9s
backend-deployment-78976f74f5-b8c85 1/1     Running   0           6h40m
backend-deployment-78976f74f5-flfsj 1/1     Running   0           6h40m
candidate@node-1:~$ kubectl get deploy -n staging
NAME                READY   UP-TO-DATE   AVAILABLE   AGE
backend-deployment 3/3     3             3           6h40m
candidate@node-1:~$ kubectl get deploy -n staging
NAME                READY   UP-TO-DATE   AVAILABLE   AGE
backend-deployment 3/3     3             3           6h41m
candidate@node-1:~$ vim ~/spicy-pikachu/backend-deployment.yaml
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl set serviceaccount deploy app-1 app -n frontend
deployment.apps/app-1 serviceaccount updated
candidate@node-1:~$
```

## QUESTION 5

### 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.

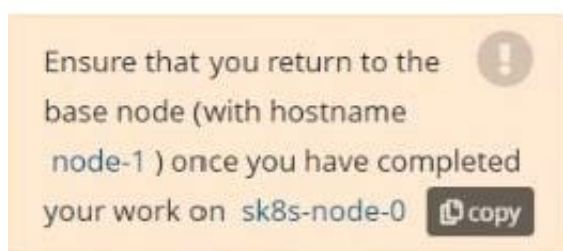
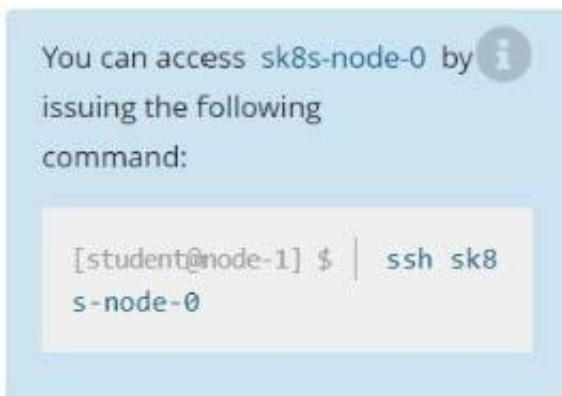
The configuration should specify the access mode of ReadWriteOnce. It should define the StorageClass name exam for the PersistentVolume, which will be used to bind PersistentVolumeClaim requests to this PersistentVolume.

1.

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



A. Please check explanations

B. Place Holder

Correct Answer: A





```
Readme Web Terminal THE LINUX FOUNDATION
student@node-1:~$ kubectl config use-context sk8s
Switched to context "sk8s".
student@node-1:~$
```

```
Readme Web Terminal THE LINUX FOUNDATION
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/advantage

System information as of Fri Oct 9 08:52:09 UTC 2020

System load: 2.02 Users logged in: 0
Usage of /: 10.3% of 242.29GB IP address for eth0: 10.250.3.115
Memory usage: 2% IP address for docker0: 172.17.0.1
Swap usage: 0% IP address for cni0: 10.244.1.1
Processes: 38

* Kubernetes 1.19 is out! Get it in one command with:

sudo snap install microk8s --channel=1.19 --classic

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

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

New release '20.04.1 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

student@sk8s-node-0:~$
```

```
Readme Web Terminal THE LINUX FOUNDATION
student@sk8s-node-0:~$ echo 'Acct=Finance' > /opt/KDSP00101/data/index.html
student@sk8s-node-0:~$ vim pv.yml
```



```

THE LINUX FOUNDATION
Web Terminal
-- INSERT --
0,1 All

```

```

THE LINUX FOUNDATION
Web Terminal
apiVersion: v1
kind: PersistentVolume
metadata:
  name: task-pv-volume
spec:
  capacity:
    storage: 1Gi
  accessModes:
    - ReadWriteOnce
  storageClassName: storage
  hostPath:
    path: /opt/KDSP00101/data
    type: Directory

```

```

THE LINUX FOUNDATION
Web Terminal
apiVersion: v1
kind: PersistentVolumeClaim
metadata:
  name: task-pv-claim
spec:
  accessModes:
    - ReadWriteOnce
  resources:
    requests:
      storage: 100Mi
  storageClassName: storage

```

```

student@sk8s-node-01:~$ kubectl create -f pv.yml
persistentvolume/task-pv-volume created
student@sk8s-node-01:~$ kubectl create -f pvc.yml
persistentvolumeclaim/task-pv-claim created
student@sk8s-node-01:~$ kubectl get pv
NAME          CAPACITY  ACCESS MODES  RECLAIM POLICY  STATUS  CLAIM          STORAGECLASS  AGE
task-pv-volume  1Gi       RWO           Retain          Bound   default/task-pv-claim  storage      9s
student@sk8s-node-01:~$ kubectl get pvc
NAME          STATUS  VOLUME          CAPACITY  ACCESS MODES  STORAGECLASS  AGE
task-pv-claim  Bound   task-pv-volume  1Gi       RWO           storage       9s
student@sk8s-node-01:~$ vim pod.yml

```

```

THE LINUX FOUNDATION
Web Terminal
apiVersion: v1
kind: Pod
metadata:
  name: mypod
spec:
  restartPolicy: Never
  containers:
    - name: myfrontend
      image: nginx
      volumeMounts:
        - mountPath: "/usr/share/nginx/html"
          name: mypod
    - name: mypod
      persistentVolumeClaim:
        claimName: task-pv-claim

```

```

student@sk8s-node-01:~$ kubectl create -f pod.yml
pod/mypod created
student@sk8s-node-01:~$ kubectl get

```

```

THE LINUX FOUNDATION
Web Terminal
student@sk8s-node-01:~$ kubectl get pods
NAME    READY  STATUS             RESTARTS  AGE
mypod   0/1    ContainerCreating  0         4s
student@sk8s-node-01:~$ kubectl get pods
NAME    READY  STATUS             RESTARTS  AGE
mypod   0/1    ContainerCreating  0         8s
student@sk8s-node-01:~$ kubectl get pods
NAME    READY  STATUS             RESTARTS  AGE
mypod   1/1    Running            0         10s
student@sk8s-node-01:~$ logout
Connection to 10.250.3.115 closed.
student@node-1:~$

```



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