

## Exam Questions CKAD

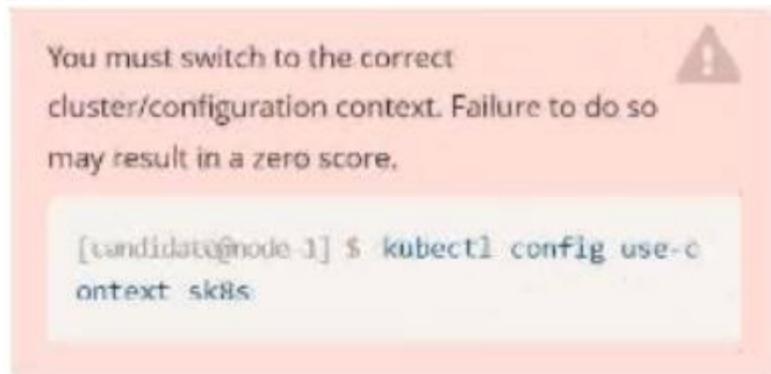
Certified Kubernetes Application Developer (CKAD) Program

<https://www.2passeasy.com/dumps/CKAD/>



**NEW QUESTION 1**

Exhibit:



Task:

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

- A. Mastered
- B. Not Mastered

**Answer: A****Explanation:**

Solution:

Text Description automatically generated

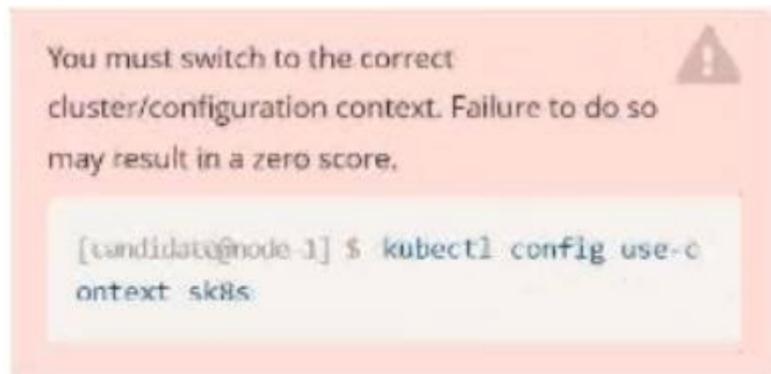
```
File Edit View Terminal Tabs Help
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

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:~$
```

**NEW QUESTION 2**

Exhibit:



Task:

Key3: value1

Add an environment variable named BEST\_VARIABLE consuming the value of the secret key3.

- A. Mastered
- B. Not Mastered

**Answer: A****Explanation:**

Solution:

```
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl create secret generic app-secret -n default --from-literal=key3=value1
secret/app-secret created
candidate@node-1:~$ kubectl get secrets
NAME          TYPE      DATA   AGE
app-secret    Opaque    1       4s
candidate@node-1:~$ kubectl run nginx-secret -n default --image=nginx:stable --dry-run=client -o yaml > sec.yaml
candidate@node-1:~$ vim sec.yaml
```

Text Description automatically generated

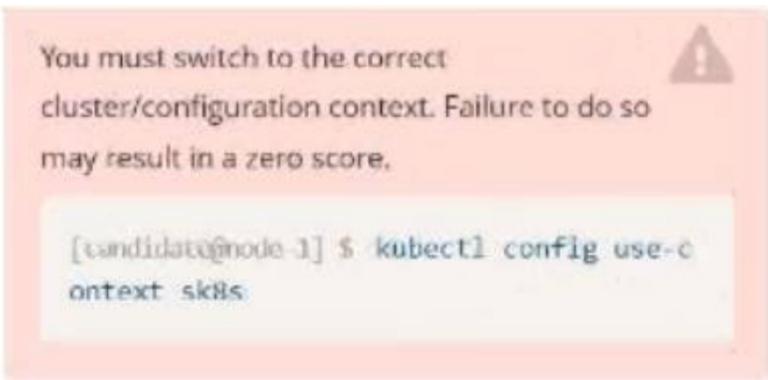
```
apiVersion: v1
kind: Pod
metadata:
  creationTimestamp: null
  labels:
    run: nginx-secret
  name: nginx-secret
  namespace: default
spec:
  containers:
  - image: nginx:stable
    name: nginx-secret
    env:
    - name: BEST_VARIABLE
      valueFrom:
        secretKeyRef:
          name: app-secret
          key: key3
```

Text Description automatically generated

```
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl create secret generic app-secret -n default --from-literal=key3=value1
secret/app-secret created
candidate@node-1:~$ kubectl get secrets
NAME          TYPE      DATA   AGE
app-secret    Opaque    1       4s
candidate@node-1:~$ kubectl run nginx-secret -n default --image=nginx:stable --dry-run=client -o yaml > sec.yaml
candidate@node-1:~$ vim sec.yaml
candidate@node-1:~$ kubectl create -f sec.yaml
pod/nginx-secret created
candidate@node-1:~$ kubectl get pods
NAME          READY   STATUS    RESTARTS   AGE
nginx-secret  1/1     Running   0           7s
candidate@node-1:~$
```

**NEW QUESTION 3**

Exhibit:



Task:

Create a Deployment named expose in the existing ckad00014 namespace running 6 replicas of a Pod. Specify a single container using the ifccncf/nginx: 1.13.7 image Add an environment variable named NGINX\_PORT with the value 8001 to the container then expose port 8001

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:

```
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl create deploy expose -n ckad00014 --image lfccncf/nginx:1.13.7 --dry-run=client -o yaml > dep.yaml
candidate@node-1:~$
```

Text Description automatically generated

```
File Edit View Terminal Tabs Help
apiVersion: apps/v1
kind: Deployment
metadata:
  creationTimestamp: null
  labels:
    app: expose
    name: expose
    namespace: ckad00014
spec:
  replicas: 6
  selector:
    matchLabels:
      app: expose
  strategy: {}
  template:
    metadata:
      creationTimestamp: null
      labels:
        app: expose
    spec:
      containers:
      - image: lfccncf/nginx:1.13.7
        name: nginx
        ports:
        - containerPort: 8001
        env:
        - name: NGINX_PORT
          value: "8001"
```

Text Description automatically generated

```
File Edit View Terminal Tabs Help
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl create deploy expose -n ckad00014 --image lfccncf/nginx:1.13.7 --dry-run=client -o yaml > dep.yaml
candidate@node-1:~$
candidate@node-1:~$ vim dep.yaml
candidate@node-1:~$ kubectl create -f dep.yaml
deployment.apps/expose created
candidate@node-1:~$ kubectl get pods -n ckad00014
NAME READY STATUS RESTARTS AGE
expose-85dd99d4d9-25675 0/1 ContainerCreating 0 6s
expose-85dd99d4d9-4fhcc 0/1 ContainerCreating 0 6s
expose-85dd99d4d9-fl7j 0/1 ContainerCreating 0 6s
expose-85dd99d4d9-tt6rm 0/1 ContainerCreating 0 6s
expose-85dd99d4d9-vjd8b 0/1 ContainerCreating 0 6s
expose-85dd99d4d9-vtzpq 0/1 ContainerCreating 0 6s
candidate@node-1:~$ kubectl get deploy -n ckad00014
NAME READY UP-TO-DATE AVAILABLE AGE
expose 6/6 6 6 15s
candidate@node-1:~$
```

**NEW QUESTION 4**

Exhibit:

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

```
[candidate@node-1] $ kubectl config use-c  
ontext k8s
```

Task:

The application was developed for Kubernetes v1.15.  
The cluster k8s runs Kubernetes v1.24.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:

```
candidate@node-1:~$ kubectl config use-context k8s  
Switched to context "k8s".  
candidate@node-1:~$ vim ~/credible-mite/www.yaml
```

Text Description automatically generated

```
File Edit View Terminal Tabs Help  
apiVersion: apps/v1  
kind: Deployment  
metadata:  
  name: www-deployment  
  namespace: cobra  
spec:  
  replicas: 3  
  selector:  
    matchLabels:  
      app: nginx  
  template:  
    metadata:  
      labels:  
        app: nginx  
    spec:  
      containers:  
        - name: nginx  
          image: "nginx:stable"  
          ports:  
            - containerPort: 80  
          volumeMounts:  
            - mountPath: /var/log/nginx  
              name: logs  
          env:  
            - name: NGINX_ENTRYPOINT_QUIET_LOGS  
              value: "1"  
      volumes:  
        - name: logs  
          emptyDir: {}
```

Text Description automatically generated

```

File Edit View Terminal Tabs Help
deployment.apps/expose created
candidate@node-1:~$ kubectl get pods -n ckad00014
NAME                                READY   STATUS              RESTARTS   AGE
expose-85dd99d4d9-25675             0/1    ContainerCreating   0           6s
expose-85dd99d4d9-4fhcc             0/1    ContainerCreating   0           6s
expose-85dd99d4d9-fl7j              0/1    ContainerCreating   0           6s
expose-85dd99d4d9-tt6rm             0/1    ContainerCreating   0           6s
expose-85dd99d4d9-vjd8b             0/1    ContainerCreating   0           6s
expose-85dd99d4d9-vtzpq             0/1    ContainerCreating   0           6s
candidate@node-1:~$ kubectl get deploy -n ckad00014
NAME      READY   UP-TO-DATE   AVAILABLE   AGE
expose    6/6     6            6           15s
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ vim ~/credible-mite/www.yaml
candidate@node-1:~$ vim ~/credible-mite/www.yaml
candidate@node-1:~$ kubectl apply -f ~/credible-mite/www.yaml
deployment.apps/www-deployment created
candidate@node-1:~$ kubectl get pods -n cobra
NAME                                READY   STATUS              RESTARTS   AGE
www-deployment-d899c6b49-d6ccg      1/1    Running            0           6s
www-deployment-d899c6b49-f796l      0/1    ContainerCreating   0           6s
www-deployment-d899c6b49-ztfcw      0/1    ContainerCreating   0           6s
candidate@node-1:~$ kubectl get deploy -n cobra
NAME      READY   UP-TO-DATE   AVAILABLE   AGE
www-deployment  3/3     3            3           11s
candidate@node-1:~$ kubectl get pods -n cobra
NAME                                READY   STATUS              RESTARTS   AGE
www-deployment-d899c6b49-d6ccg      1/1    Running            0           14s
www-deployment-d899c6b49-f796l      1/1    Running            0           14s
www-deployment-d899c6b49-ztfcw      1/1    Running            0           14s
candidate@node-1:~$

```

**NEW QUESTION 5**

Exhibit:



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:

- The pod must run in the web namespace. The namespace has already been created
- The name of the pod should be cache
- Use the lfcncf/redis image with the 3.2 tag
- Expose port 6379

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:

```

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:~$

```

**NEW QUESTION 6**

Exhibit:

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

```
[candidate@node-1] $ kubectl config use-c  
ontext k8s
```

Task:

1- Update the Propertunel scaling configuration of the Deployment web1 in the ckad00015 namespace setting maxSurge to 2 and maxUnavailable to 59  
2- Update the web1 Deployment to use version tag 1.13.7 for the lfcncf/nginx container image. 3- Perform a rollback of the web1 Deployment to its previous version

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:

```
candidate@node-1:~$ kubectl config use-context k8s  
Switched to context "k8s".  
candidate@node-1:~$ kubectl edit deploy web1 -n ckad00015
```

Text Description automatically generated

```
File Edit View Terminal Tabs Help  
app: nginx  
strategy:  
  rollingUpdate:  
    maxSurge: 2%  
    maxUnavailable: 5%  
  type: RollingUpdate  
template:  
  metadata:  
    creationTimestamp: null  
  labels:  
    app: nginx  
spec:  
  containers:  
  - image: lfcncf/nginx:1.13.7  
    imagePullPolicy: IfNotPresent  
    name: nginx  
    ports:  
    - containerPort: 80  
      protocol: TCP  
    resources: {}  
    terminationMessagePath: /dev/termination-log  
    terminationMessagePolicy: File  
  dnsPolicy: ClusterFirst  
  restartPolicy: Always  
  schedulerName: default-scheduler  
  securityContext: {}  
  terminationGracePeriodSeconds: 30  
status:  
  availableReplicas: 2  
  conditions:  
  - lastTransitionTime: "2022-09-24T04:26:41Z"
```

```

candidate@node-1:~$ kubectl create secret generic app-secret -n default --from-literal=key3=value1
secret/app-secret created
candidate@node-1:~$ kubectl get secrets
NAME          TYPE      DATA   AGE
app-secret    Opaque    1       4s
candidate@node-1:~$ kubectl run nginx-secret -n default --image=nginx:stable --dry-run=client -o yaml > sec.yaml
candidate@node-1:~$ vim sec.yaml
candidate@node-1:~$ kubectl create -f sec.yaml
pod/nginx-secret created
candidate@node-1:~$ kubectl get pods
NAME          READY   STATUS    RESTARTS   AGE
nginx-secret  1/1     Running   0          7s
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl edit deploy web1 -n ckad00015
deployment.apps/web1 edited
candidate@node-1:~$ kubectl rollout status deploy web1 -n ckad00015
deployment "web1" successfully rolled out
candidate@node-1:~$ kubectl rollout undo deploy web1 -n ckad00015
deployment.apps/web1 rolled back
candidate@node-1:~$ kubectl rollout history deploy web1 -n ckad00015
deployment.apps/web1
REVISION  CHANGE-CAUSE
2         <none>
3         <none>

candidate@node-1:~$ kubectl get rs -n ckad00015
NAME                DESIRED   CURRENT   READY   AGE
web1-56f98bcb79     0         0         0       63s
web1-85775b6b79     2         2         2       6h53m
candidate@node-1:~$

```

**NEW QUESTION 7**

Exhibit:



Context

You are tasked to create a secret and consume the secret in a pod using environment variables as follow:

Task

- Create a secret named another-secret with a key/value pair; key1/value4
- Start an nginx pod named nginx-secret using container image nginx, and add an environment variable exposing the value of the secret key key 1, using COOL\_VARIABLE as the name for the environment variable inside the pod

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Solution:

```

student@node-1:~$ kubectl create secret generic some-secret --from-literal=key1=value4
secret/some-secret created
student@node-1:~$ kubectl get secret
NAME                TYPE      DATA   AGE
default-token-4kvr5  kubernetes.io/service-account-token  3     2d11h
some-secret         Opaque    1       5s
student@node-1:~$ kubectl run nginx-secret --image=nginx --dry-run=client -o yaml > nginx_secret
.yml
student@node-1:~$ vim nginx_secret.yml

```



**NEW QUESTION 8**

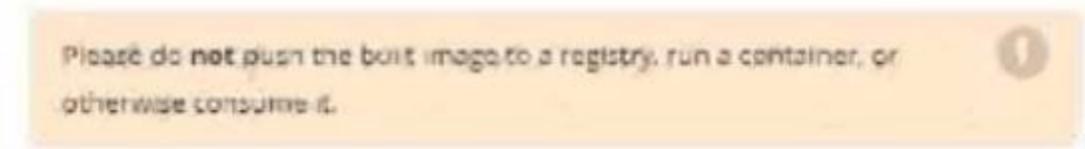
Exhibit:



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`.



- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Solution:

```
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
--> ea335eea17ab
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$
```

**NEW QUESTION 9**

Exhibit:



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:

- Create a file on node `sk8s-node-0` at `/opt/KDSP00101/data/index.html` with the content `Acct=Finance`
- 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.
- Create a PersistentVolumeClaim named `task-pv-claim` that requests a volume of at least 100Mi and specifies an access mode of `ReadWriteOnce`
- 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

You can access `sk8s-node-0` by issuing the following command:

```
[student@node-1] $ | ssh sk8s-node-0
```

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



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:

```
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
```



```

Readme Web Terminal THE LINUX FOUNDATION
apiVersion: v1
kind: Pod
metadata:
  name: mypod
  labels:
    app: my-storage-app
spec:
  containers:
  - name: myfrontend
    image: nginx
    volumeMounts:
    - mountPath: "/usr/share/nginx/html"
      name: mypod
  volumes:
  - name: mypod
    persistentVolumeClaim:
      claimName: task-pv-claim
  
```

```

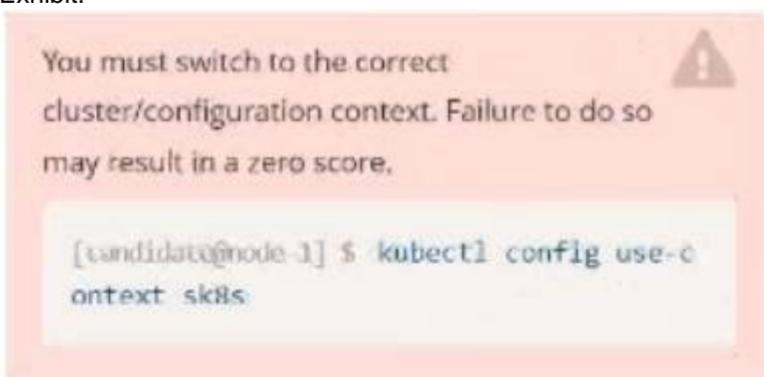
student@sk8s-node-0:~$ kubectl create -f pod.yml
pod/mypod created
student@sk8s-node-0:~$ kubectl get
  
```

```

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

**NEW QUESTION 10**

Exhibit:



Task

A Deployment named backend-deployment in namespace staging runs a web application on port 8081.

The Deployment's manifest files can be found at `~/spicy-pikachu/backend-deployment.yaml`.

Modify the Deployment specifying a readiness probe using path `/healthz`.

Set `initialDelaySeconds` to 8 and `periodSeconds` to 5.

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

**Solution:**

```

File Edit View Terminal Tabs Help
Warning: Permanently added '172.31.17.21' (ECDSA) to the list of known hosts.

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
    
```

Text Description automatically generated

```

File Edit View Terminal Tabs Help
apiVersion: apps/v1
kind: Deployment
metadata:
  name: backend-deployment
  namespace: staging
spec:
  selector:
    matchLabels:
      app: nginx
  replicas: 3
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:
      - name: nginx
        image: nginx:1.14.2
        ports:
        - containerPort: 8081
        readinessProbe:
          initialDelaySeconds: 8
          periodSeconds: 5
          httpGet:
            path: /healthz
            port: 8081
        volumeMounts:
        - mountPath: /etc/nginx/conf.d/
          name: config
        - mountPath: /usr/share/nginx/html/
          name: www
-- INSERT --
    
```

```

File Edit View Terminal Tabs Help
Warning: Permanently added '172.31.17.21' (ECDSA) to the list of known hosts.

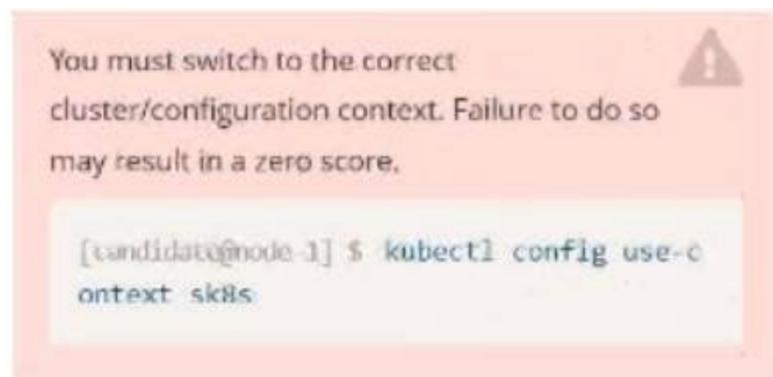
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

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
    
```

**NEW QUESTION 10**

Exhibit:



Task:

A pod within the Deployment named buffalo-deployment and in namespace gorilla is logging errors.

1) Look at the logs identify errors messages.

Find errors, including User "system:serviceaccount:gorilla:default" cannot list resource "deployment" [...] in the namespace "gorilla"

The buffalo-deployment 'S manifest can be found at ~/prompt/escargot/buffalo-deployment.yaml

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:

Text Description automatically generated

```

File Edit View Terminal Tabs Help
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:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ vim ~/prompt-escargot/buffalo-deployment.yaml
candidate@node-1:~$ vim ~/prompt-escargot/buffalo-deployment.yaml
candidate@node-1:~$ kubectl apply -f ~/prompt-escargot/buffalo-deployment.yaml
deployment.apps/buffalo-deployment configured
candidate@node-1:~$ kubectl get pods -n gorilla
NAME                                READY   STATUS             RESTARTS   AGE
buffalo-deployment-776844df7f-r5fsb  1/1     Running            0           6h38m
buffalo-deployment-859898c6f5-zx5gj  0/1     ContainerCreating  0           8s
candidate@node-1:~$ kubectl get deploy -n gorilla
NAME                READY   UP-TO-DATE   AVAILABLE   AGE
buffalo-deployment  1/1     1             1           6h38m
candidate@node-1:~$

```

NEW QUESTION 12

Exhibit:



Context

You have been tasked with scaling an existing deployment for availability, and creating a service to expose the deployment within your infrastructure.

Task

Start with the deployment named kdsn00101-deployment which has already been deployed to the namespace kdsn00101 . Edit it to:

- Add the func=webFrontEnd key/value label to the pod template metadata to identify the pod for the service definition
- Have 4 replicas

Next, create ana deploy in namespace kdsn00101 a service that accomplishes the following:

- Exposes the service on TCP port 8080
- is mapped to me pods defined by the specification of kdsn00101-deployment
- Is of type NodePort
- Has a name of cherry

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Solution:

```
student@node-1:~$ kubectl edit deployment kdsn00101-deployment -n kdsn00101
```

```
Please edit the object below. Lines beginning with a '#' will be ignored,
and an empty file will abort the edit. If an error occurs while saving this file will be
reopened with the relevant failures.
#
apiVersion: apps/v1
kind: Deployment
metadata:
  annotations:
    deployment.kubernetes.io/revision: "1"
  creationTimestamp: "2020-10-09T08:50:39Z"
  generation: 1
  labels:
    app: nginx
  name: kdsn00101-deployment
  namespace: kdsn00101
  resourceVersion: "4786"
  selfLink: /apis/apps/v1/namespaces/kdsn00101/deployments/kdsn00101-deployment
  uid: 8d3ace00-7761-4189-ba10-fbc676c311bf
spec:
  progressDeadlineSeconds: 600
  replicas: 1
  revisionHistoryLimit: 10
  selector:
    matchLabels:
      app: nginx
  strategy:
"/tmp/kubectl-edit-d4y5r.yaml" 70L, 1957C 1,1 Top
```

```
uid: 8d3ace00-7761-4189-ba10-fbc676c311bf
spec:
  progressDeadlineSeconds: 600
  replicas: 4
  revisionHistoryLimit: 10
  selector:
    matchLabels:
      app: nginx
  strategy:
    rollingUpdate:
      maxSurge: 25%
      maxUnavailable: 25%
    type: RollingUpdate
  template:
    metadata:
      creationTimestamp: null
      labels:
        app: nginx
        func: webFrontEnd
    spec:
      containers:
      - image: nginx:latest
        imagePullPolicy: Always
        name: nginx
        ports:
        - containerPort: 80
```

```
student@node-1:~$ kubectl edit deployment kdsn00101-deployment -n kdsn00101
deployment.apps/kdsn00101-deployment edited
student@node-1:~$ kubectl get deployment kdsn00101-deployment -n kdsn00101
NAME                READY   UP-TO-DATE   AVAILABLE   AGE
kdsn00101-deployment 4/4     4             4           7h17m
student@node-1:~$ kubectl expose deployment kdsn00101-deployment -n kdsn00101 --type NodePort --
port 8080 --name cherry
service/cherry exposed
```

**NEW QUESTION 13**

Exhibit:

```
Set configuration context:

[student@node-1] $ | kubectl config
use-context nk8s
```

Task

You have rolled out a new pod to your infrastructure and now you need to allow it to communicate with the web and storage pods but nothing else. Given the running pod kdsn00201 -newpod edit it to use a network policy that will allow it to send and receive traffic only to and from the web and storage pods.

All work on this item should be conducted in the kdsn00201 namespace.

All required NetworkPolicy resources are already created and ready for use as appropriate. You should not create, modify or delete any network policies whilst completing this item.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```
apiVersion: networking.k8s.io/v1 kind: NetworkPolicy
metadata:
name: internal-policy namespace: default spec:
podSelector: matchLabels: name: internal policyTypes:
- Egress
- Ingress ingress:
- {}
egress:
- to:
- podSelector: matchLabels: name: mysql ports:
- protocol: TCP port: 3306
- to:
- podSelector: matchLabels:
name: payroll ports:
- protocol: TCP port: 8080
- ports:
- port: 53 protocol: UDP
- port: 53 protocol: TCP
```

NEW QUESTION 17

.....

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