Linux Foundation

CKAD Exam

Certified Kubernetes Application Developer

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Version: 6.1

Question: 1

Refer to 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 Ifccncf/redis image with the 3.2 tag
• Expose port 6379

Answer: See the solution below.

Explanation:

Solution:

```
student@node-1:~$ kubectl run cache --image=1fccncf/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: 2

Refer to Exhibit:

Set configuration context:

```
[student@node-1] $   kubectl config
use-context k8s
```

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

Answer: See the solution below.

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
```

Readme   **> Web Terminal**   **THE LINUX FOUNDATION**

```
apiVersion: v1
kind: Pod
metadata:
  creationTimestamp: null
  labels:
    run: nginx-secret
  name: nginx-secret
spec:
  containers:
  - image: nginx
    name: nginx-secret
    resources: {}
  dnsPolicy: ClusterFirst
  restartPolicy: Always
status: {}
~
~
~
~
~
~
~
~
~
~
~
"nginx_secret.yml" 15L, 253C                              1,1            All
```

Readme   **> Web Terminal**   **THE LINUX FOUNDATION**

```
apiVersion: v1
kind: Pod
metadata:
  labels:
    run: nginx-secret
  name: nginx-secret
spec:
  containers:
  - image: nginx
    name: nginx-secret
    env:
    - name: COOL_VARIABLE
      valueFrom:
        secretKeyRef:
          name: some-secret
          key: key1
~
~
~
~
~
~
~
~
~
-- INSERT --                                              16,20          All
```

Question: 3

Refer to Exhibit:

Task
You are required to create a pod that requests a certain amount of CPU and memory, so it gets scheduled to a node that has those resources available.

• Create a pod named nginx-resources in the pod-resources namespace that requests a minimum of 200m CPU and 1Gi memory for its container
• The pod should use the nginx image
• The pod-resources namespace has already been created

Answer: See the
solution below.

Explanation:

Solution:

Question: 4

Refer to Exhibit:

Set configuration context:

```
[student@node-1] $ │ kubectl config
use-context k8s
```

Context
You are tasked to create a ConfigMap and consume the ConfigMap in a pod using a volume mount.
Task
Please complete the following:
• Create a ConfigMap named another-config containing the key/value pair: key4/value3
• start a pod named nginx-configmap containing a single container using the
nginx image, and mount the key you just created into the pod under directory /also/a/path

**Answer: See the
solution below.**

Explanation:

Solution:


```
student@node-1:~$ kubectl create configmap another-config --from-literal=key4=value3
configmap/another-config created
student@node-1:~$ kubectl get configmap
NAME              DATA    AGE
another-config    1       5s
student@node-1:~$ kubectl run nginx-configmap --image=nginx --dry-run=client -o yaml > ngin_conf
igmap.yml
student@node-1:~$ vim ngin_configmap.yml ^C
student@node-1:~$ mv ngin_configmap.yml nginx_configmap.yml
student@node-1:~$ vim nginx_co
```

```
apiVersion: v1
kind: Pod
metadata:
  creationTimestamp: null
  labels:
    run: nginx-configmap
  name: nginx-configmap
spec:
  containers:
  - image: nginx
    name: nginx-configmap
    resources: {}
  dnsPolicy: ClusterFirst
  restartPolicy: Always
status: {}
~
~
~
~
~
~
~
~
~
~
"nginx_configmap.yml" 15L, 262C                                    1,1          All
```



```
apiVersion: v1
kind: Pod
metadata:
  labels:
    run: nginx-configmap
  name: nginx-configmap
spec:
  containers:
  - image: nginx
    name: nginx-configmap
    volumeMounts:
    - name: myvol
      mountPath: /also/a/path
  volumes:
  - name: myvol
    configMap:
      name: another-config
~
~
~
~
~
~
~
~
                                                                  13,6         All
```



```
student@node-1:~$ kubectl create configmap another-config --from-literal=key4=value3
configmap/another-config created
student@node-1:~$ kubectl get configmap
NAME               DATA    AGE
another-config     1       5s
student@node-1:~$ kubectl run nginx-configmap --image=nginx --dry-run=client -o yaml > ngin_conf
igmap.yml
student@node-1:~$ vim ngin_configmap.yml ^C
student@node-1:~$ mv ngin_configmap.yml nginx_configmap.yml
student@node-1:~$ vim nginx_configmap.yml
student@node-1:~$
```
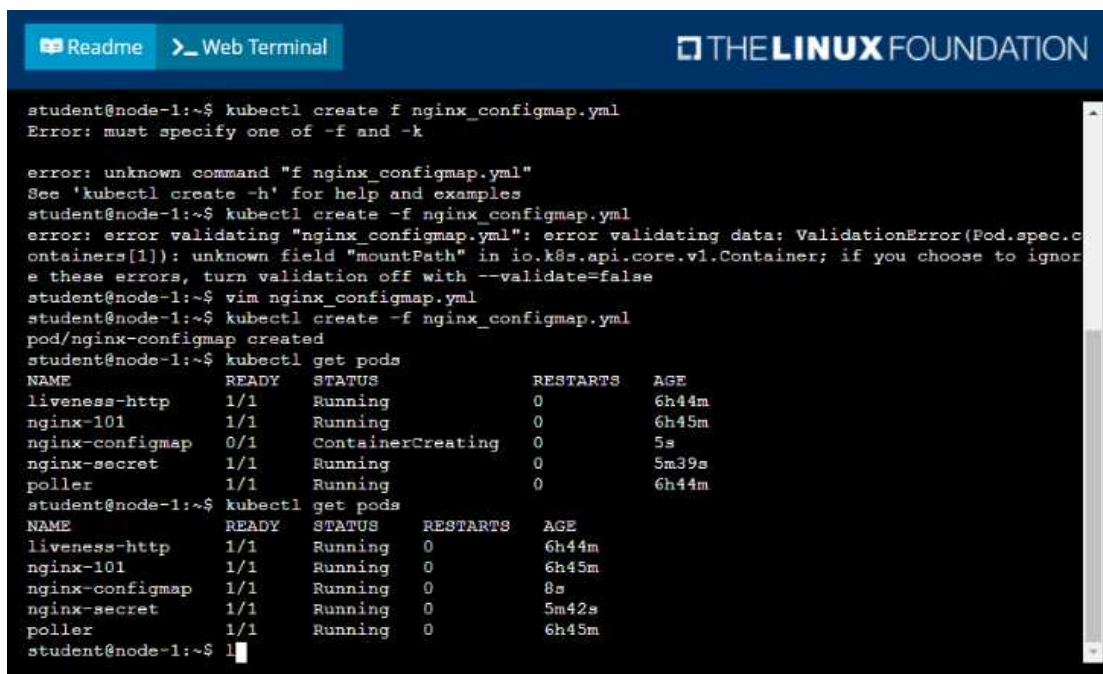
```
student@node-1:~$ kubectl run nginx-configmap --image=nginx --dry-run=client -o yaml > ngin_conf
igmap.yml
student@node-1:~$ vim ngin_configmap.yml ^C
student@node-1:~$ mv ngin_configmap.yml nginx_configmap.yml
student@node-1:~$ vim nginx_configmap.yml
student@node-1:~$ kubectl create f nginx_configmap.yml
Error: must specify one of -f and -k

error: unknown command "f nginx_configmap.yml"
See 'kubectl create -h' for help and examples
student@node-1:~$ kubectl create -f nginx_configmap.yml
error: error validating "nginx_configmap.yml": error validating data: ValidationError(Pod.spec.c
ontainers[1]): unknown field "mountPath" in io.k8s.api.core.v1.Container; if you choose to ignor
e these errors, turn validation off with --validate=false
student@node-1:~$ vim nginx_configmap.yml █
```

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```
student@node-1:~$ kubectl create f nginx_configmap.yml
Error: must specify one of -f and -k

error: unknown command "f nginx_configmap.yml"
See 'kubectl create -h' for help and examples
student@node-1:~$ kubectl create -f nginx_configmap.yml
error: error validating "nginx_configmap.yml": error validating data: ValidationError(Pod.spec.c
ontainers[1]): unknown field "mountPath" in io.k8s.api.core.v1.Container; if you choose to ignor
e these errors, turn validation off with --validate=false
student@node-1:~$ vim nginx_configmap.yml
student@node-1:~$ kubectl create -f nginx_configmap.yml
pod/nginx-configmap created
student@node-1:~$ kubectl get pods
NAME              READY    STATUS              RESTARTS     AGE
liveness-http     1/1      Running             0            6h44m
nginx-101         1/1      Running             0            6h45m
nginx-configmap   0/1      ContainerCreating   0            5s
nginx-secret      1/1      Running             0            5m39s
poller            1/1      Running             0            6h44m
student@node-1:~$ kubectl get pods
NAME              READY    STATUS     RESTARTS    AGE
liveness-http     1/1      Running    0           6h44m
nginx-101         1/1      Running    0           6h45m
nginx-configmap   1/1      Running    0           8s
nginx-secret      1/1      Running    0           5m42s
poller            1/1      Running    0           6h45m
student@node-1:~$ l█
```

Question: 5

Refer to Exhibit:

Set configuration context: ⚠

[student@node-1] $ | kubectl config
use-context k8s

Context

Your application's namespace requires a specific service account to be used.
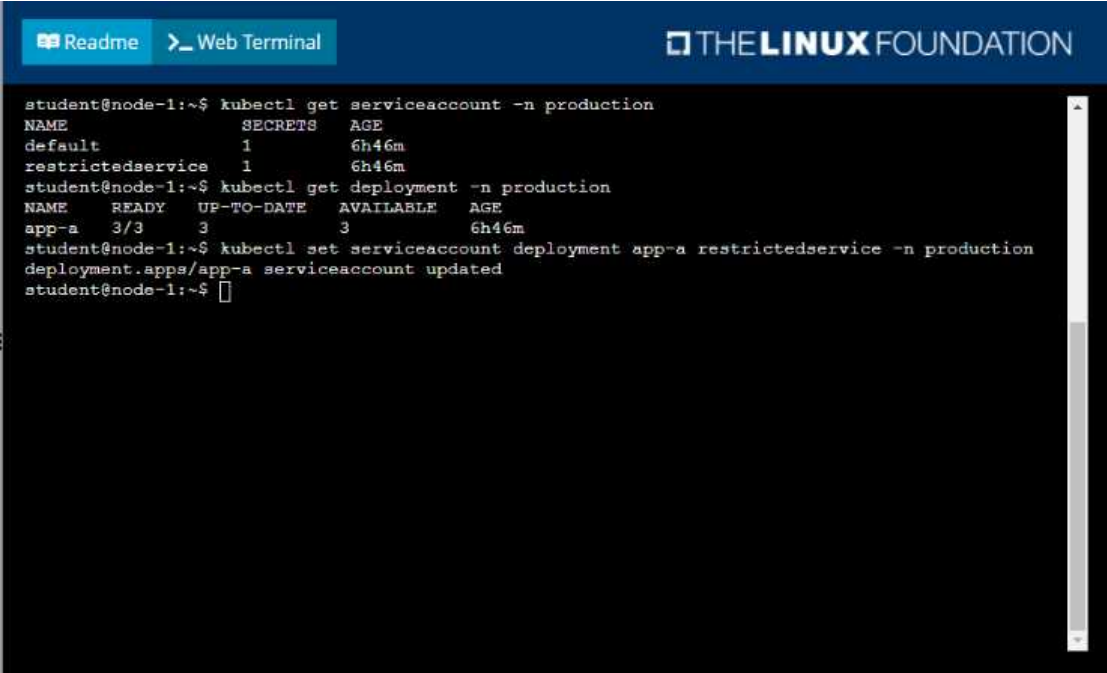
Task

Update the app-a deployment in the production namespace to run as the restrictedservice   service account. The service account has already been created.

Answer: See the solution below.

Explanation:

Solution:

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