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QUESTION 1

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. Please check explanations

B. Place Holder

Correct Answer: AB

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

Readme
Web Terminal
THE LINUX FOUNDATION

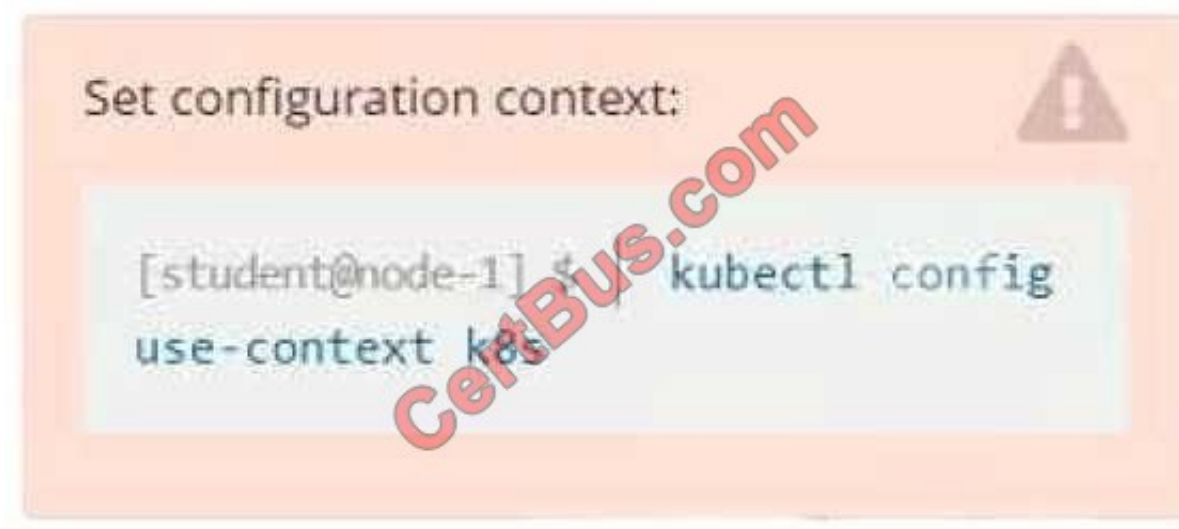
```

student@node-1:~$ kubectl get pods -n web
NAME      READY   STATUS    RESTARTS   AGE
cache     1/1     Running   0           9s
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
student@node-1:~$ kubectl create -f nginx_secret.yml
pod/nginx-secret created
student@node-1:~$ kubectl get pods
NAME                READY   STATUS    RESTARTS   AGE
liveness-http       1/1     Running   0           6h38m
nginx-101            1/1     Running   0           6h39m
nginx-secret         0/1     ContainerCreating  0           4s
poller               1/1     Running   0           6h39m
student@node-1:~$ kubectl get pods
NAME                READY   STATUS    RESTARTS   AGE
liveness-http       1/1     Running   0           6h38m
nginx-101            1/1     Running   0           6h39m
nginx-secret         1/1     Running   0           8s
poller               1/1     Running   0           6h39m
student@node-1:~$

```

QUESTION 2

Exhibit: Context As a Kubernetes application developer you will often find yourself needing to update a running application. Task Please complete the following: Update the app deployment in the kdpd00202 namespace with a maxSurge of 5% and a maxUnavailable of 2% Perform a rolling update of the web1 deployment, changing the Ifccncf/ngmx image version to 1.13 Roll back the app deployment to the previous version

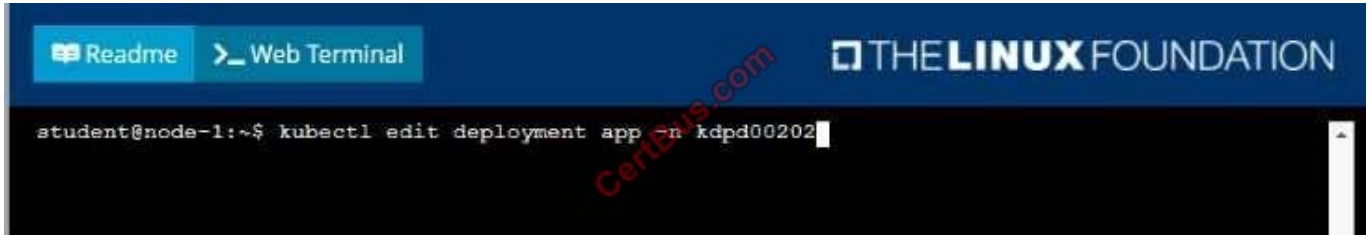


A. Please check explanations

B. Place Holder

Correct Answer: AB

Solution:



```
student@node-1:~$ kubectl edit deployment app -n kdpd00202
```


Readme Web Terminal THE LINUX FOUNDATION

```
uid: 1dfa2527-5c61-46a9-8dd3-e24643d3ce14
spec:
  progressDeadlineSeconds: 600
  replicas: 10
  revisionHistoryLimit: 10
  selector:
    matchLabels:
      app: nginx
  strategy:
    rollingUpdate:
      maxSurge: 5%
      maxUnavailable: 2
    type: RollingUpdate
  template:
    metadata:
      creationTimestamp: null
      labels:
        app: nginx
    spec:
      containers:
      - image: lfocncf/nginx:1.13
        imagePullPolicy: IfNotPresent
        name: nginx
        ports:
        - containerPort: 80
          protocol: TCP
:wg!
```

Readme Web Terminal THE LINUX FOUNDATION

```
student@node-1:~$ kubectl edit deployment app -n kdpd00202
deployment.apps/app edited
student@node-1:~$ kubectl rollout status deployment app -n kdpd00202
Waiting for deployment "app" rollout to finish: 6 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 7 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 7 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 7 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 8 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 8 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 8 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 8 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 9 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 9 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 9 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 1 old replicas are pending termination...
Waiting for deployment "app" rollout to finish: 8 of 10 updated replicas are available...
Waiting for deployment "app" rollout to finish: 9 of 10 updated replicas are available...
deployment "app" successfully rolled out
student@node-1:~$ kubectl rollout undo deployment app -n kdpd00202
deployment.apps/app rolled back
student@node-1:~$ kubectl rollout status deployment app -n kdpd00202
```

```
student@node-1:~$ kubectl rollout status deployment app -n kdpd00202
Waiting for deployment "app" rollout to finish: 6 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 6 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 6 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 6 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 7 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 7 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 9 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 9 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 9 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 1 old replicas are pending termination...
Waiting for deployment "app" rollout to finish: 1 old replicas are pending termination...
Waiting for deployment "app" rollout to finish: 1 old replicas are pending termination...
Waiting for deployment "app" rollout to finish: 8 of 10 updated replicas are available...
Waiting for deployment "app" rollout to finish: 9 of 10 updated replicas are available...
deployment "app" successfully rolled out
student@node-1:~$
```

QUESTION 3

Exhibit: 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



A. Please check explanations

B. Place Holder

Correct Answer: AB

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 > nginx_configmap.yaml
student@node-1:~$ vim nginx_configmap.yaml ^C
student@node-1:~$ mv nginx_configmap.yaml nginx_configmap.yaml
student@node-1:~$ vim nginx_co
```


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THE **LINUX** FOUNDATION

```

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

Readme
Web Terminal
THE **LINUX** FOUNDATION

```

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 > nginx_configmap.yaml
student@node-1:~$ vim nginx_configmap.yaml ^C
student@node-1:~$ mv nginx_configmap.yaml nginx_configmap.yaml
student@node-1:~$ vim nginx_configmap.yaml
student@node-1:~$
```

```
student@node-1:~$ kubectl run nginx-configmap --image=nginx --dry-run=client -o yaml > nginx_configmap.yaml
student@node-1:~$ vim nginx_configmap.yaml ^C
student@node-1:~$ mv nginx_configmap.yaml nginx_configmap.yaml
student@node-1:~$ vim nginx_configmap.yaml
student@node-1:~$ kubectl create f nginx_configmap.yaml
Error: must specify one of -f and -k

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

Readme

> Web Terminal

THE **LINUX** FOUNDATION

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

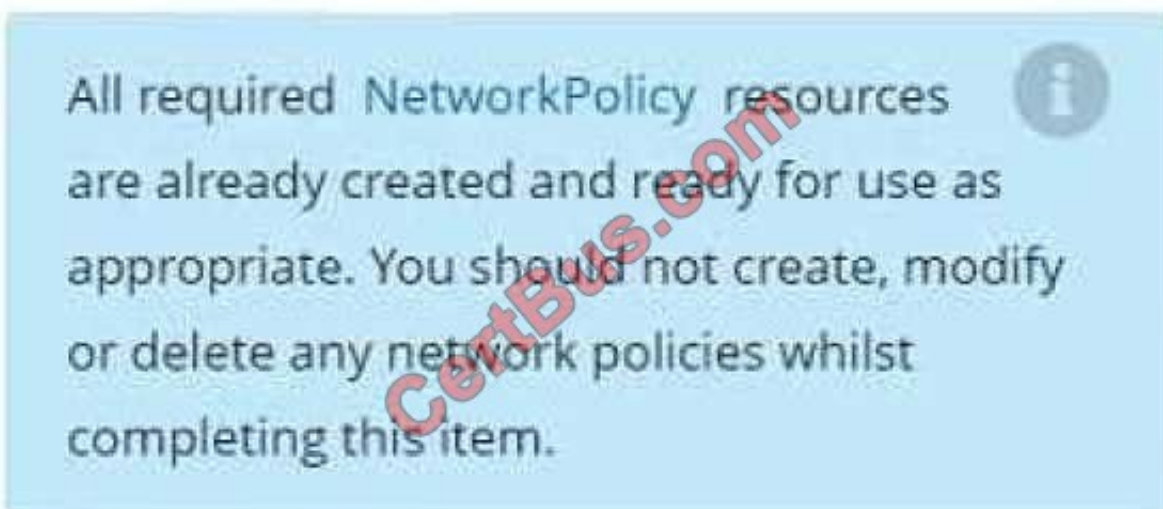
error: unknown command "f nginx_configmap.yaml"
See 'kubectl create -h' for help and examples
student@node-1:~$ kubectl create -f nginx_configmap.yaml
error: error validating "nginx_configmap.yaml": error validating data: ValidationError(Pod.spec.containers[1]): unknown field "mountPath" in io.k8s.api.core.v1.Container;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

QUESTION 4

Exhibit:



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.



A. Please check explanations

B. Place Holder

Correct Answer: AB

Pending

QUESTION 5

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. Please check explanations

B. Place Holder

Correct Answer: AB

Solution:


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

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```
# 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: "2020-10-09T08:59:32Z"
    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:
    type: RollingUpdate
    rollingUpdate:
      maxSurge: 1
      maxUnavailable: 1
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:
      - image: nginx:1.19.0
        name: nginx
        ports:
        - containerPort: 80
        resources:
          limits:
            cpu: 100m
            memory: 128Mi
          requests:
            cpu: 100m
            memory: 128Mi
        volumeMounts:
        - mountPath: /usr/share/nginx/html
          name: nginx-data
      volumes:
      - name: nginx-data
        persistentVolumeClaim:
          claimName: nginx-data
status:
  availableReplicas: 1
  unavailableReplicas: 0
  updatedReplicas: 1
```

1,1 Top

The screenshot shows a web terminal window with a dark background. At the top, there are tabs for 'Readme' and 'Web Terminal', and the 'THE LINUX FOUNDATION' logo on the right. The terminal displays a YAML configuration for a Kubernetes Deployment. A large, semi-transparent red watermark 'CertBus.com' is overlaid diagonally across the terminal content.

```
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
```

The screenshot shows a terminal window with a dark background. It displays a series of Kubernetes commands and their outputs. A large, semi-transparent red watermark 'CertBus.com' is overlaid diagonally across the terminal content.

```
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
```

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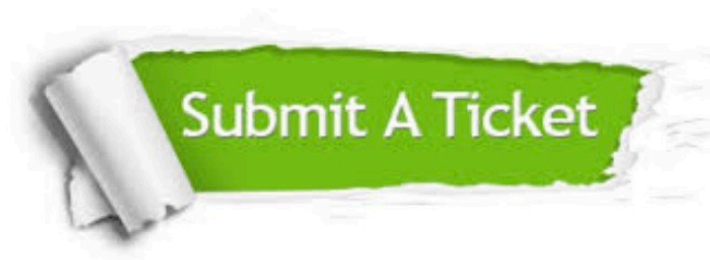
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