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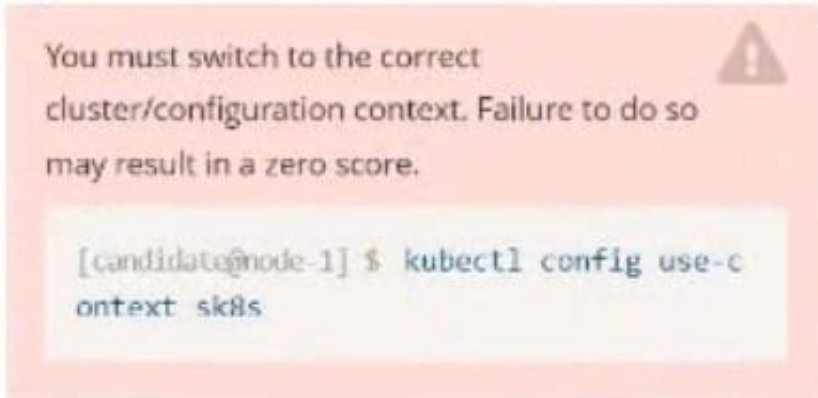
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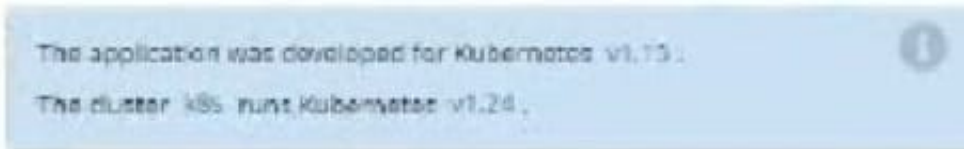


QUESTION 1

CORRECT TEXT



Task:



- A. Please check explanations
- B. Place Holder

Correct Answer: A

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



```
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: {}
~
:wd
```

```
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:~$
```

QUESTION 2

CORRECT TEXT



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:

1.
Add the `func=webFrontEnd` key/value label to the pod template metadata to identify the pod for the service definition

2.

Have 4 replicas

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

1.

Exposes the service on TCP port 8080

2.

is mapped to the pods defined by the specification of `kdsn00101-deployment`

3.

Is of type `NodePort`

4.

Has a name of `cherry`

A. Please check explanations

B. Place Holder



Correct Answer: A

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

Readme Web Terminal THE LINUX FOUNDATION

```
⌘ 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
```



```
Readme Web Terminal THE LINUX FOUNDATION

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
```

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] $ kubectl config use-c
ontext sk8s
```

Task:

Key3: value1



Add an environment variable named BEST_VARIABLE consuming the value of the secret key3.

A. Please check explanations

B. Place Holder

Correct Answer: A

```
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
```

```
File Edit View Terminal Tabs Help
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
:wq
```

```
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:~$
```

QUESTION 4




CORRECT TEXT

```
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. Please check explanations



B. Place Holder

Correct Answer: A

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

QUESTION 5



CORRECT TEXT



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.

A. Please check explanations

B. Place Holder

Correct Answer: A



```
Readme Web Terminal THE LINUX FOUNDATION
student@node-1:~$ kubectl get serviceaccount -n production
NAME          SECRETS  AGE
default       1        6h46m
restrictedservice 1        6h46m
student@node-1:~$ kubectl get deployment -n production
NAME    READY  UP-TO-DATE  AVAILABLE  AGE
app-a   3/3    3           3          6h46m
student@node-1:~$ kubectl set serviceaccount deployment app-a restrictedservice -n production
deployment.apps/app-a serviceaccount updated
student@node-1:~$
```

QUESTION 6

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
```

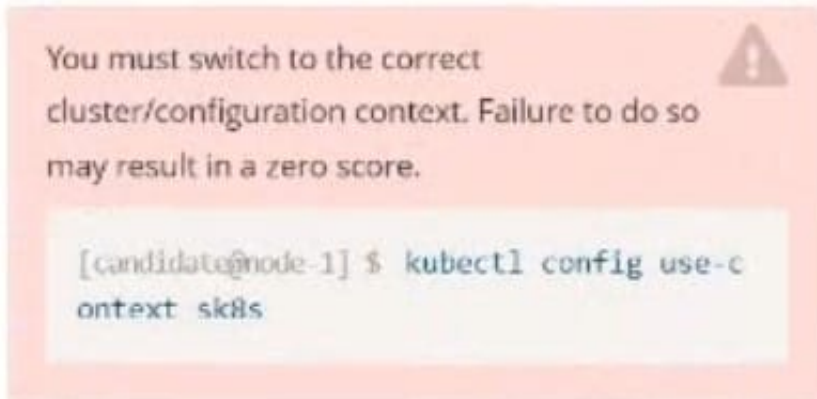
```
Readme Web Terminal THE LINUX FOUNDATION
apiVersion: batch/v1beta1
kind: CronJob
metadata:
  name: hello
spec:
  jobTemplate:
    metadata:
      name: hello
    spec:
      template:
        spec:
          containers:
            - image: busybox
              name: hello
              args: ["/bin/sh", "-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 7

CORRECT TEXT



Task:

To run 2 replicas of the pod

Add the following label on the pod:

Role userUI

A. Please check explanations

B. Place Holder

Correct Answer: A



```
File Edit View Terminal Tabs Help
# reopened with the relevant failures.
#
apiVersion: apps/v1
kind: Deployment
metadata:
  annotations:
    deployment.kubernetes.io/revision: "1"
  creationTimestamp: "2022-09-24T04:27:03Z"
  generation: 1
  labels:
    app: nginx
    name: ckad00017-deployment
    namespace: ckad00017
    resourceVersion: "3349"
    uid: lcd67613-fade-46e9-b741-94298b9c6e7c
spec:
  progressDeadlineSeconds: 600
  replicas: 2
  revisionHistoryLimit: 10
  selector:
    matchLabels:
      app: nginx
  strategy:
    rollingUpdate:
      maxSurge: 25%
      maxUnavailable: 25%
    type: RollingUpdate
  template:
    metadata:
      creationTimestamp: null
    labels:
-- INSERT --
```

33, 14

5%

```
File Edit View Terminal Tabs Help
name: ckad00017-deployment
namespace: ckad00017
resourceVersion: "3349"
uid: lcd67613-fade-46e9-b741-94298b9c6e7c
spec:
  progressDeadlineSeconds: 600
  replicas: 2
  revisionHistoryLimit: 10
  selector:
    matchLabels:
      app: nginx
  strategy:
    rollingUpdate:
      maxSurge: 25%
      maxUnavailable: 25%
    type: RollingUpdate
  template:
    metadata:
      creationTimestamp: null
    labels:
      app: nginx
      role: userUI
  spec:
    containers:
      - image: nginx:latest
        imagePullPolicy: Always
        name: nginx
        ports:
          - containerPort: 80
            protocol: TCP
        resources: {}
-- INSERT --
```

35, 21

33%



```
File Edit View Terminal Tabs Help
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:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl edit deploy ckad00017-deployment -n ckad00017
deployment.apps/ckad00017-deployment edited
candidate@node-1:~$
```

```
File Edit View Terminal Tabs Help
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:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl edit deploy ckad00017-deployment -n ckad00017
deployment.apps/ckad00017-deployment edited
candidate@node-1:~$ kubectl expose deploy ckad00017-deployment -n ckad0001
ckad00014 ckad00015 ckad00017
candidate@node-1:~$ kubectl expose deploy ckad00017-deployment -n ckad0001
ckad00014 ckad00015 ckad00017
candidate@node-1:~$ kubectl expose deploy ckad00017-deployment -n ckad0001
ckad00014 ckad00015 ckad00017
candidate@node-1:~$ kubectl expose deploy ckad00017-deployment -n ckad0001
ckad00014 ckad00015 ckad00017
candidate@node-1:~$ kubectl expose deploy ckad00017-deployment -n ckad0001
ckad00014 ckad00015 ckad00017
candidate@node-1:~$ kubectl expose deploy ckad00017-deployment -n ckad0001
ckad00014 ckad00015 ckad00017
candidate@node-1:~$ kubectl expose deploy ckad00017-deployment -n ckad0001
ckad00014 ckad00015 ckad00017
candidate@node-1:~$ kubectl expose deploy ckad00017-deployment -n ckad0001
ckad00014 ckad00015 ckad00017
candidate@node-1:~$ kubectl expose deploy ckad00017-deployment -n ckad0001 --name=cherry --port=8888 --type=NodePort
service/cherry exposed
candidate@node-1:~$
```

```
candidate@node-1:~$ kubectl get svc
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 77d
candidate@node-1:~$ kubectl get svc -n ckad00017
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
cherry NodePort 10.100.100.176 <none> 8888:30683/TCP 24s
candidate@node-1:~$ kubectl expose service deploy ckad00017-deployment -n ckad00017 --name=cherry --port=8888 --type=NodePort
Error from server (NotFound): services "deploy" not found
Error from server (NotFound): services "ckad00017-deployment" not found
candidate@node-1:~$ kubectl get svc -n ckad00017
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
cherry NodePort 10.100.100.176 <none> 8888:30683/TCP 45s
candidate@node-1:~$
```




```
File Edit View Terminal Tabs Help
candidate@node-1:~$ kubectl expose service deploy ckad00017-deployment -n ckad00017 --name=cherry --port=8888 --type=NodePort
Error from server (NotFound): services "deploy" not found
Error from server (NotFound): services "ckad00017-deployment" not found
candidate@node-1:~$ kubectl get svc -n ckad00017
NAME      TYPE          CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
cherry    NodePort      10.100.100.176  <none>           8888:30683/TCP  46s
candidate@node-1:~$ history
 1 vi ~/spicy-pikachu/backend-deployment.yaml
 2 kubectl config use-context sk8s
 3 vim .vimrc
 4 vim ~/spicy-pikachu/backend-deployment.yaml
 5 kubectl apply -f ~/spicy-pikachu/backend-deployment.yaml
 6 kubectl get pods -n staging
 7 kubectl get deploy -n staging
 8 vim ~/spicy-pikachu/backend-deployment.yaml
 9 kubectl config use-context k8s
10 kubectl set serviceaccount deploy app-1 app -n frontend
11 kubectl config use-context k8s
12 vim ~/prompt-escargot/buffalo-deployment.yaml
13 kubectl apply -f ~/prompt-escargot/buffalo-deployment.yaml
14 kubectl get pods -n gorilla
15 kubectl get deploy -n gorilla
16 kubectl config use-context k8s
17 kubectl edit deploy ckad00017-deployment -n ckad00017
18 kubectl expose deploy ckad00017-deployment -n ckad00017 --name=cherry --port=8888 --type=NodePort
19 kubectl get svc
20 kubectl get svc -n ckad00017
21 kubectl expose service deploy ckad00017-deployment -n ckad00017 --name=cherry --port=8888 --type=NodePort
22 kubectl get svc -n ckad00017
23 history
candidate@node-1:~$
```

QUESTION 8

CORRECT TEXT

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-context sk8s
```

Task:

Update the Pod ckad00018-newpod in the ckad00018 namespace to use a NetworkPolicy allowing the Pod to send and receive traffic only to and from the pods web and db

All required NetworkPolicies have already been created.

You must not create, modify or delete any NetworkPolicy while working on this task. You may only use existing NetworkPolicies.



A. Please check explanations

B. Place Holder

Correct Answer: A

```
candidate@node-1:~$ kubectl config use-context nk8s
Switched to context "nk8s".
candidate@node-1:~$ kubectl describe netpol -n ckad00018
```

```
File Edit View Terminal Tabs Help
name:      all-access
namespace: ckad00018
Created on: 2022-09-24 04:27:37 +0000 UTC
Labels:    <none>
Annotations: <none>
spec:
  PodSelector:      all-access=true
  Allowing ingress traffic:
    To Port: <any> (traffic allowed to all ports)
    From: <any> (traffic not restricted by source)
  Allowing egress traffic:
    To Port: <any> (traffic allowed to all ports)
    To: <any> (traffic not restricted by destination)
  Policy Types: Ingress, Egress

name:      default-deny
namespace: ckad00018
Created on: 2022-09-24 04:27:37 +0000 UTC
Labels:    <none>
Annotations: <none>
spec:
  PodSelector:      <none> (Allowing the specific traffic to all pods in this namespace)
  Allowing ingress traffic:
    <none> (Selected pods are isolated for ingress connectivity)
  Not affecting egress traffic
  Policy Types: Ingress
candidate@node-1:~$ kubectl label pod ckad00018-newpod -n ckad00018 web-access=true
pod/ckad00018-newpod labeled
candidate@node-1:~$ kubectl label pod ckad00018-newpod -n ckad00018 db-access=true
pod/ckad00018-newpod labeled
candidate@node-1:~$
```

QUESTION 9

CORRECT TEXT



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.

1.

Create a pod named `nginx-resources` in the `pod-resources` namespace that requests a minimum of 200m CPU and 1Gi memory for its container

2.

The pod should use the `nginx` image

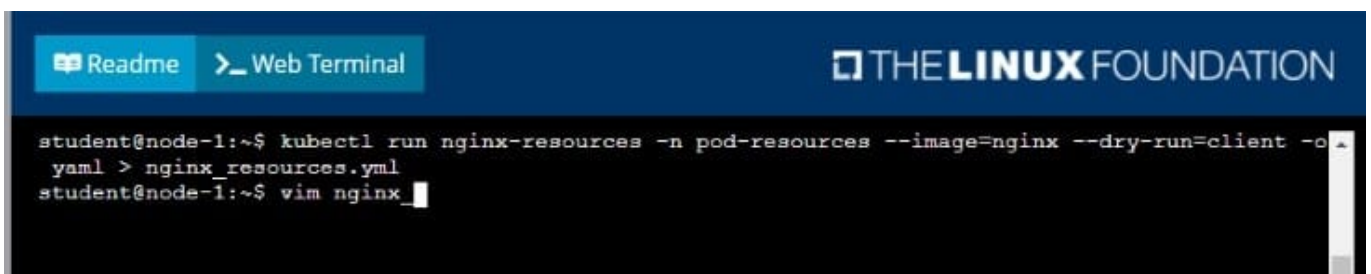
3.

The `pod-resources` namespace has already been created

A. Please check explanations

B. Place Holder

Correct Answer: A





```
Readme Web Terminal THE LINUX FOUNDATION
apiVersion: v1
kind: Pod
metadata:
  creationTimestamp: null
  labels:
    run: nginx-resources
  name: nginx-resources
  namespace: pod-resources
spec:
  containers:
  - image: nginx
    name: nginx-resources
    resources: {}
  dnsPolicy: ClusterFirst
  restartPolicy: Always
status: {}

"nginx_resources.yml" 16L, 289C 1,1 All
```

```
Readme Web Terminal THE LINUX FOUNDATION
apiVersion: v1
kind: Pod
metadata:
  labels:
    run: nginx-resources
  name: nginx-resources
  namespace: pod-resources
spec:
  containers:
  - image: nginx
    name: nginx-resources
    resources:
      requests:
        cpu: 200m
        memory: "1Gi"
-- INSERT --

15,22 All
```

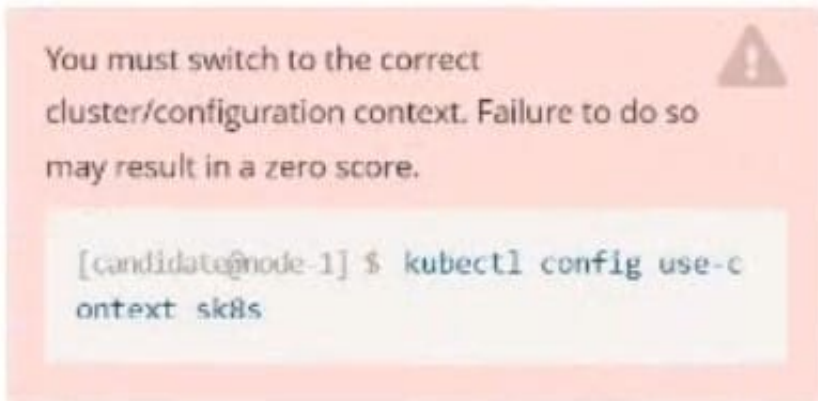


```
student@node-1:~$ kubectl run nginx-resources -n pod-resources --image=nginx --dry-run=client -o yml > nginx_resources.yml
student@node-1:~$ vim nginx_resources.yml
student@node-1:~$ kubectl create -g nginx_resources.yml
Error: unknown shorthand flag: 'g' in -g
See 'kubectl create --help' for usage.
student@node-1:~$ kubectl create -f nginx_resources.yml
pod/nginx-resources created
student@node-1:~$ kubectl get pods -n pod-re
```

```
student@node-1:~$ kubectl get pods -n pod-resources
NAME          READY   STATUS    RESTARTS   AGE
nginx-resources 1/1     Running   0           8s
student@node-1:~$
```

QUESTION 10

CORRECT TEXT



Task:

The pod for the Deployment named nosql in the crayfish namespace fails to start because its container runs out of resources.

Update the nosql Deployment so that the Pod:

The nosql Deployment's manifest file can be found at `~/chief-cardinal/nosql.yaml`.

- A. Please check explanations
- B. Place Holder



Correct Answer: A

```
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ vim ~/chief-cardinal/nosql.yaml
```

```
File Edit View Terminal Tabs Help
---
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nosql
  namespace: crayfish
  labels:
    app.kubernetes.io/name: nosql
    app.kubernetes.io/component: backend
spec:
  selector:
    matchLabels:
      app.kubernetes.io/name: nosql
      app.kubernetes.io/component: backend
  replicas: 1
  template:
    metadata:
      labels:
        app.kubernetes.io/name: nosql
        app.kubernetes.io/component: backend
    spec:
      containers:
        - name: mongo
          image: mongo:4.2
          args:
            - --bind_ip
            - 0.0.0.0
          ports:
            - containerPort: 27017
-- INSERT --
12,1 All
```

```
File Edit View Terminal Tabs Help
- name: mongo
  image: mongo:4.2
  args:
    - --bind_ip
    - 0.0.0.0
  ports:
    - containerPort: 27017
resources:
  requests:
    memory: "168Mi"
  limits:
    memory: "328Mi"
:wd
```



```
File Edit View Terminal Tabs Help
To: <any> (traffic not restricted by destination)
Policy Types: Ingress, Egress

Name: default-deny
Namespace: ckad00018
Created on: 2022-09-24 04:27:37 +0000 UTC
Labels: <none>
Annotations: <none>
Spec:
  PodSelector: <none> (Allowing the specific traffic to all pods in this namespace)
  Allowing ingress traffic:
    <none> (Selected pods are isolated for ingress connectivity)
  Not affecting egress traffic
  Policy Types: Ingress
candidate@node-1:~$ kubectl label pod ckad00018-newpod -n ckad00018 web-access=true
pod/ckad00018-newpod labeled
candidate@node-1:~$ kubectl label pod ckad00018-newpod -n ckad00018 db-access=true
pod/ckad00018-newpod labeled
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ vim ~/chief-cardinal/nosql.yaml
candidate@node-1:~$ vim ~/chief-cardinal/nosql.yaml
candidate@node-1:~$ kubectl apply -f ~/chief-cardinal/nosql.yaml
deployment.apps/nosql configured
candidate@node-1:~$ kubectl get pods -n crayfish
NAME                                READY   STATUS    RESTARTS   AGE
nosql-74cccf7d64-lkqlg             1/1     Running   0           3m2s
candidate@node-1:~$ kubectl get deploy -n crayfish
NAME    READY   UP-TO-DATE   AVAILABLE   AGE
nosql  1/1     1             1           7h16m
candidate@node-1:~$
```

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