

LinuxFoundation.CKAD.v2022-06-14.q7

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NEW QUESTION: 1

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 lfccncf/redis image with the 3.2 tag

- * Expose port 6379

A. Solution:



A terminal window from The Linux Foundation. It shows the execution of `kubectl run cache --image=lfcncf/redis:3.2 --port=6379 -n web`, which results in 'pod/cache created'. Then, `kubectl get pods -n web` is run, showing a table with one pod in 'ContainerCreating' state. A second `kubectl get pods -n web` command shows the pod in 'Running' state.

```
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:~$
```

B. Solution:



A terminal window from The Linux Foundation. It shows the execution of `kubectl run cache --image=lfcncf/redis:3.2 --port=6379 -n web`, which results in 'pod/cache created'. Then, `kubectl get pods -n web` is run, showing a table with one pod in 'ContainerCreating' state. A second `kubectl get pods -n web` command shows the pod in 'Running' state.

```
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:~$
```

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 2

Exhibit:



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. Solution:



The screenshot shows a web terminal interface with a dark blue header containing 'Readme', 'Web Terminal', and 'THE LINUX FOUNDATION' logo. The terminal content is as follows:

```
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
```

Below the terminal output, the manifest file content is displayed in a light blue box:

```
apiVersion: batch/v1beta1
kind: CronJob
metadata:
  name: hello
spec:
  jobTemplate:
    metadata:
      name: hello
    spec:
      template:
        spec:
          containers:
            - image: busybox
              name: hello
              args: ["/bin/sh", "-c", "date"]
              restartPolicy: Never
          schedule: "* * * * *"
          startingDeadlineSeconds: 22
          concurrencyPolicy: Allow
```

The bottom of the screenshot shows a large diagonal watermark 'freeqas.com' and the 'THE LINUX FOUNDATION' logo. In the bottom right corner, the text '19,26' and 'All' are visible.

B. Solution:



The screenshot shows a web terminal interface with a dark blue header containing 'Readme', 'Web Terminal', and 'THE LINUX FOUNDATION' logo. The terminal content is as follows:

```
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", "-c", "date"]
          restartPolicy: Never
  schedule: '*/* * * * *'
  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:~$
```

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 3

Exhibit:



Given a container that writes a log file in format A and a container that converts log files from format A to format B, create a deployment that runs both containers such that the log files from the first container are converted by the second container, emitting logs in format B.

Task:

- * Create a deployment named deployment-xyz in the default namespace, that:
- * Includes a primary lfcncf/busybox:1 container, named logger-dev
- * includes a sidecar lfcncf/fluentd:v0.12 container, named adapter-zen
- * Mounts a shared volume /tmp/log on both containers, which does not persist when the pod is deleted
- * Instructs the logger-dev container to run the command

```
while true; do
  echo "i luv cncf" >> /
  tmp/log/input.log;
  sleep 10;
done
```

which should output logs to /tmp/log/input.log in plain text format, with example values:

```
i luv cncf
i luv cncf
i luv cncf
```

- * The adapter-zen sidecar container should read /tmp/log/input.log and output the data to /tmp/log/output.* in Fluentd JSON format. Note that no knowledge of Fluentd is required to complete this task: all you will need to achieve this is to create the ConfigMap from the spec file provided at /opt/KDMC00102/fluentd-configmap.yaml, and mount that ConfigMap to /fluentd/etc in the adapter-zen sidecar container

A. Solution:



```
apiVersion: apps/v1
kind: Deployment
metadata:
  creationTimestamp: null
  labels:
    app: deployment-xyz
  name: deployment-xyz
spec:
  replicas: 1
  selector:
    matchLabels:
      app: deployment-xyz
  strategy: {}
  template:
    metadata:
      creationTimestamp: null
      labels:
        app: deployment-xyz
    spec:
      containers:
      - image: lfccncf/busybox:1
        name: busybox
        resources: {}
status: {}
~
~
"deployment xyz.yml" 24L, 434C
```

3,1

All

```
kind: Deployment
metadata:
  labels:
    app: deployment-xyz
  name: deployment-xyz
spec:
  replicas: 1
  selector:
    matchLabels:
      app: deployment-xyz
  template:
    metadata:
      labels:
        app: deployment-xyz
    spec:
      volumes:
      - name: myvol1
        emptyDir: {}
      containers:
      - image: lfccncf/busybox:1
        name: logger-dev
        volumeMounts:
        - name: myvol1
          mountPath: /tmp/log
      - image: lfccncf/fluentd:v0.12
        name: adapter-zen
3 lines yanked
```

27,22

Bot

```

replicas: 1
selector:
  matchLabels:
    app: deployment-xyz
template:
  metadata:
    labels:
      app: deployment-xyz
  spec:
    volumes:
    - name: myvol1
      emptyDir: {}
    containers:
    - image: lfccncf/busybox:1
      name: logger-dev
      command: ["/bin/sh", "-c", "while [ true ]; do echo 'i luv cncf' >> /tmp/log/input.log; sl
      eep 10; done"]
      volumeMounts:
      - name: myvol1
        mountPath: /tmp/log
    - image: lfccncf/fluentd:v0.12
      name: adapter-zen
      command: ["/bin/sh", "-c", "tail -f /tmp/log/input.log >> /tmp/log/output.log"]
      volumeMounts:
      - name: myvol1
        mountPath: /tmp/log

```

29,83

Bot

```

metadata:
  labels:
    app: deployment-xyz
spec:
  volumes:
  - name: myvol1
    emptyDir: {}
  - name: myvol2
    configMap:
      name: logconf
  containers:
  - image: lfccncf/busybox:1
    name: logger-dev
    command: ["/bin/sh", "-c", "while [ true ]; do echo 'i luv cncf' >> /tmp/log/input.log; sl
    eep 10; done"]
    volumeMounts:
    - name: myvol1
      mountPath: /tmp/log
  - image: lfccncf/fluentd:v0.12
    name: adapter-zen
    command: ["/bin/sh", "-c", "tail -f /tmp/log/input.log >> /tmp/log/output.log"]
    volumeMounts:
    - name: myvol1
      mountPath: /tmp/log
    - name: myvol2
      mountPath: /fluentd/etc

```

37,33

Bot

```

student@node-1:~$ kubectl create -f deployment_xyz.yml
deployment.apps/deployment-xyz created
student@node-1:~$ kubectl get deployment
NAME          READY   UP-TO-DATE   AVAILABLE   AGE
deployment-xyz 0/1     1            0           5s
student@node-1:~$ kubectl get deployment
NAME          READY   UP-TO-DATE   AVAILABLE   AGE
deployment-xyz 0/1     1            0           9s
student@node-1:~$ kubectl get deployment
NAME          READY   UP-TO-DATE   AVAILABLE   AGE
deployment-xyz 1/1     1            1           12s
student@node-1:~$

```

B. Solution:

```

Readme  Web Terminal  THE LINUX FOUNDATION
student@node-1:~$ kubectl create deployment deployment-xyz --image=lfcncf/busybox:1 --dry-run=c
lient -o yaml > deployment_xyz.yml
student@node-1:~$ vim deployment_xyz.yml

```

```

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apiVersion: apps/v1
kind: Deployment
metadata:
  creationTimestamp: null
  labels:
    app: deployment-xyz
  name: deployment-xyz
spec:
  replicas: 1
  selector:
    matchLabels:
      app: deployment-xyz
  strategy: {}
  template:
    metadata:
      creationTimestamp: null
      labels:
        app: deployment-xyz
    spec:
      containers:
      - image: lfcncf/busybox:1
        name: busybox
        resources: {}
status: {}
~
~
"deployment_xyz.yml" 24L, 434C  3,1  All

```

```

kind: Deployment
metadata:
  labels:
    app: deployment-xyz
  name: deployment-xyz
spec:
  replicas: 1
  selector:
    matchLabels:
      app: deployment-xyz
  template:
    metadata:
      labels:
        app: deployment-xyz
    spec:
      volumes:
      - name: myvol1
        emptyDir: {}
      containers:
      - image: lfccncf/busybox:1
        name: logger-dev
        volumeMounts:
        - name: myvol1
          mountPath: /tmp/log
      - image: lfccncf/fluentd:v0.12
        name: adapter-zen
3 lines yanked

```

27,22

Bot

```

metadata:
  labels:
    app: deployment-xyz
spec:
  volumes:
  - name: myvol1
    emptyDir: {}
  - name: myvol2
    configMap:
      name: logconf
  containers:
  - image: lfccncf/busybox:1
    name: logger-dev
    command: ["/bin/sh", "-c", "while [ true ]; do echo 'i luv cncf' >> /tmp/log/input.log; sleep 10; done"]
    volumeMounts:
    - name: myvol1
      mountPath: /tmp/log
  - image: lfccncf/fluentd:v0.12
    name: adapter-zen
    command: ["/bin/sh", "-c", "tail -f /tmp/log/input.log >> /tmp/log/output.log"]
    volumeMounts:
    - name: myvol1
      mountPath: /tmp/log
    - name: myvol2
      mountPath: /fluentd/etc

```

37,33

Bot

```
student@node-1:~$ kubectl create -f deployment_xyz.yml
deployment.apps/deployment-xyz created
student@node-1:~$ kubectl get deployment
NAME          READY   UP-TO-DATE   AVAILABLE   AGE
deployment-xyz 0/1      1             0           5s
student@node-1:~$ kubectl get deployment
NAME          READY   UP-TO-DATE   AVAILABLE   AGE
deployment-xyz 0/1      1             0           9s
student@node-1:~$ kubectl get deployment
NAME          READY   UP-TO-DATE   AVAILABLE   AGE
deployment-xyz 1/1      1             1          12s
student@node-1:~$
```

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 4

Exhibit:



Task

Create a new deployment for running nginx with the following parameters;

- * Run the deployment in the kdpd00201 namespace. The namespace has already been created
- * Name the deployment frontend and configure with 4 replicas
- * Configure the pod with a container image of lfcncf/nginx:1.13.7
- * Set an environment variable of NGINX__PORT=8080 and also expose that port for the container above

A. Solution:

```
student@node-1:~$ kubectl create deployment api --image=lfcncf/nginx:1.13.7-alpine --replicas=4
-n kdpd00201 --dry-run=client -o yaml > nginx_deployment.yml
student@node-1:~$ vim nginx_deployment.yml
```

```
apiVersion: apps/v1
kind: Deployment
metadata:
  creationTimestamp: null
  labels:
    app: api
  name: api
  namespace: kdpd00201
spec:
  replicas: 4
  selector:
    matchLabels:
      app: api
  strategy: {}
  template:
    metadata:
      creationTimestamp: null
      labels:
        app: api
    spec:
      containers:
      - image: lfccncf/nginx:1.13.7-alpine
        name: nginx
        resources: {}
status: {}
```

~
"nginx_deployment.yml" 25L, 421C

4,1

All

```
apiVersion: apps/v1
kind: Deployment
metadata:
  labels:
    app: api
  name: api
  namespace: kdpd00201
spec:
  replicas: 4
  selector:
    matchLabels:
      app: api
  template:
    metadata:
      labels:
        app: api
    spec:
      containers:
      - image: lfccncf/nginx:1.13.7-alpine
        name: nginx
        ports:
        - containerPort: 8080
        env:
        - name: NGINX_PORT
          value: "8080"
```

23,8

All

Readme
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```

student@node-1:~$ kubectl create deployment api --image=lfcncf/nginx:1.13.7-alpine --replicas=4
-n kdpd00201 --dry-run=client -o yaml > nginx_deployment.yml
student@node-1:~$ vim nginx_deployment.yml
student@node-1:~$ kubectl create nginx_deployment.yml
Error: must specify one of -f and -k

error: unknown command "nginx_deployment.yml"
See 'kubectl create -h' for help and examples
student@node-1:~$ kubectl create -f nginx_deployment.yml
error: error validating "nginx_deployment.yml": error validating data: ValidationError(Deployment.spec.template.spec): unknown field "env" in io.k8s.api.core.v1.PodSpec; if you choose to ignore these errors, turn validation off with --validate=false
student@node-1:~$ vim nginx_deployment.yml
student@node-1:~$ kubectl create -f nginx_deployment.yml
deployment.apps/api created
student@node-1:~$ kubectl get pods -n kdpd00201
NAME                READY   STATUS    RESTARTS   AGE
api-745677f7dc-7hnmv 1/1     Running   0           13s
api-745677f7dc-9q5vp 1/1     Running   0           13s
api-745677f7dc-fd4gk 1/1     Running   0           13s
api-745677f7dc-mbnpc 1/1     Running   0           13s
student@node-1:~$

```

B. Solution:

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Web Terminal
THE LINUX FOUNDATION

```

student@node-1:~$ kubectl create deployment api --image=lfcncf/nginx:1.13.7-alpine --replicas=4
-n kdpd00201 --dry-run=client -o yaml > nginx_deployment.yml
student@node-1:~$ vim nginx_deployment.yml

```

Readme
Web Terminal
THE LINUX FOUNDATION

```

apiVersion: apps/v1
kind: Deployment
metadata:
  creationTimestamp: null
  labels:
    app: api
  name: api
  namespace: kdpd00201
spec:
  replicas: 4
  selector:
    matchLabels:
      app: api
  strategy: {}
  template:
    metadata:
      creationTimestamp: null
      labels:
        app: api
    spec:
      containers:
      - image: lfcncf/nginx:1.13.7-alpine
        name: nginx
        resources: {}
status: {}
~
"nginx_deployment.yml" 25L, 421C
4,1 All

```

```
Readme Web Terminal THE LINUX FOUNDATION

apiVersion: apps/v1
kind: Deployment
metadata:
  labels:
    app: api
  name: api
  namespace: kdpd00201
spec:
  replicas: 4
  selector:
    matchLabels:
      app: api
  template:
    metadata:
      labels:
        app: api
    spec:
      containers:
        - image: lfccncf/nginx:1.13.7-alpine
          name: nginx
          ports:
```

```
Readme Web Terminal THE LINUX FOUNDATION

student@node-1:~$ kubectl create deployment api --image=lfccncf/nginx:1.13.7-alpine --replicas=4
-n kdpd00201 --dry-run=client -o yaml > nginx_deployment.yml
student@node-1:~$ vim nginx_deployment.yml
student@node-1:~$ kubectl create nginx_deployment.yml
Error: must specify one of -f and -k

error: unknown command "nginx_deployment.yml"
See 'kubectl create -h' for help and examples
student@node-1:~$ kubectl create -f nginx_deployment.yml
error: error validating "nginx_deployment.yml": error validating data: ValidationError(Deployment.spec.template.spec): unknown field "env" in io.k8s.api.core.v1.PodSpec; if you choose to ignore these errors, turn validation off with --validate=false
student@node-1:~$ vim nginx_deployment.yml
student@node-1:~$ kubectl create -f nginx_deployment.yml
deployment.apps/api created
student@node-1:~$ kubectl get pods -n kdpd00201
NAME                                READY   STATUS    RESTARTS   AGE
api-745677f7dc-7hnvm                1/1     Running   0           13s
api-745677f7dc-9q5vp                1/1     Running   0           13s
api-745677f7dc-fd4gk                1/1     Running   0           13s
api-745677f7dc-mbnpc                1/1     Running   0           13s
student@node-1:~$
```

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 5

Exhibit:

Set configuration context.

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

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 lfcncf/ngmx image version to 1.13
- * Roll back the app deployment to the previous version

A. Solution:

Readme Web Terminal

```
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: lfccnct/nginx:1.13
        imagePullPolicy: IfNotPresent
        name: nginx
        ports:
        - containerPort: 80
          protocol: TCP
:~q!
```

```
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: 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: 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: 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:~$
```

B. Solution:

```
Readme Web Terminal THE LINUX FOUNDATION

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
    spec:
      containers:
      - image: lfccnet/nginx:1.13
        imagePullPolicy: IfNotPresent
        name: nginx
        ports:
        - containerPort: 80
          protocol: TCP
```

```
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: 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
Waiting for deployment "app" rollout to finish: 4 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 4 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 5 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: 8 of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 8 of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 8 of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 1 old replicas are pending termination...
deployment "app" successfully rolled out
student@node-1:~$
```

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 6

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. Pending

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 7

Exhibit:



Context

You sometimes need to observe a pod's logs, and write those logs to a file for further analysis.

Task

Please complete the following;

- * Deploy the counter pod to the cluster using the provided YAMLSpec file at /opt/KDOB00201/counter.yaml
- * Retrieve all currently available application logs from the running pod and store them in the file /opt/KDOB00201/log_Output.txt, which has already been created

A. Solution:

```
student@node-1:~$ kubectl create -f /opt/KDOB00201/counter.yaml
pod/counter created
student@node-1:~$ kubectl get pods
NAME          READY   STATUS    RESTARTS   AGE
counter       1/1     Running   0           10s
liveness-http 1/1     Running   0           6h45m
nginx-101     1/1     Running   0           6h46m
nginx-configmap 1/1     Running   0           107s
nginx-secret   1/1     Running   0           7m21s
poller        1/1     Running   0           6h46m
student@node-1:~$ kubectl logs counter
1: 2b305101817ae25ca60ae46510fb6d11
2: 3648cf2eae95ab680dba8f195f891af4
3: 65c8bbd4dbf70bf81f2a0984a3a44ede
4: 40d3a9c8e46f5533bb4828f8e5c8d038
5: 390442d2530a90c3602901e3fe999ac8
6: b71d95187417e139effb33af77681040
7: 66a8e55a6491e756d2d05494d6a690a7
8: ff2b3d583b64125d2f9129c443b837ff
9: b6c6a12b6e77944ed8baaaf6c242dae4
10: bfcc9a894a0604fc4b814b37d0a200a4
student@node-1:~$ kubectl logs counter > /opt/KDOB00201/log_output.txt
student@node-1:~$
```

```

student@node-1:~$ kubectl logs counter > /opt/KDOB00201/log_output.txt
student@node-1:~$ cat /opt/KDOB00201/log_output.txt
1: 2b305101817ae25ca60ae46510fb6d11
2: 3648cf2eae95ab680dba8f195f891af4
3: 65c8bbd4dbf70bf81f2a0984a3a44ede
4: 40d3a9c8e46f5533bb4828fbc5c8d038
5: 390442d2530a90c3602901e3fe999ac8
6: b71d95187417e139effb33af77681040
7: 66a8e55a6491e756d2d0549ad6ab90a7
8: ff2b3d583b64125d2f9129c443bb37ff
9: b6c6a12b6e77944ed8baaaf6c242dae4
10: bfcc9a894a0604fc4b814b37d0a200a4
11: 5493cd16a1790a5fb9512b0c9d4c5dd1
12: 03f169e93e6143438e6df4ecb3cc9ed
13: 764b37fe611373c42d0b47154041f6eb
14: 1a56fbc1896b0ee6394136166281839e
15: ecc492eb17715de090c47345a98d98d3
16: 7974a6bec0fb44b6b8bbfc71aa3fbc74
17: 9ae01bef01748b12cc9f97a5f9f72cd6
18: 23fb22ee34d4272e4c9e005f1774515f
19: ec7e1a5d314da9a0ad45d53be5a7acae
20: 0bccdd8ee02cd42029e8162cd1c1197c
21: d6851ea43546216b95bcb81ced997102
22: 7ed9a38ea8bf0d86206569481442af44
23: 29b8416ddc63dbfcb987ab3c8198e9fe
24: 1f2062001df51a108ab25010f506716f
student@node-1:~$

```

B. Solution:

```

student@node-1:~$ kubectl create -f /opt/KDOB00201/counter.yaml
pod/counter created
student@node-1:~$ kubectl get pods
NAME          READY   STATUS    RESTARTS   AGE
counter       1/1     Running   0           10s
liveness-http 1/1     Running   0           6h45m
nginx-101     1/1     Running   0           6h46m
nginx-configmap 1/1     Running   0           107s
nginx-secret   1/1     Running   0           7m21s
poller        1/1     Running   0           6h46m
student@node-1:~$ kubectl logs counter
1: 2b305101817ae25ca60ae46510fb6d11
2: 3648cf2eae95ab680dba8f195f891af4
3: 65c8bbd4dbf70bf81f2a0984a3a44ede
4: 40d3a9c8e46f5533bb4828fbc5c8d038
5: 390442d2530a90c3602901e3fe999ac8
6: b71d95187417e139effb33af77681040
7: 66a8e55a6491e756d2d0549ad6ab90a7
8: ff2b3d583b64125d2f9129c443bb37ff
9: b6c6a12b6e77944ed8baaaf6c242dae4
10: bfcc9a894a0604fc4b814b37d0a200a4
student@node-1:~$ kubectl logs counter > /opt/KDOB00201/log_output.txt
student@node-1:~$

student@node-1:~$ kubectl logs counter > /opt/KDOB00201/log_output.txt
student@node-1:~$ kubectl logs counter > /opt/KDOB00201/log_output.txt
student@node-1:~$ cat /opt/KDOB00201/log_output.txt

```

```
student@node-1:~$ kubectl logs counter > /opt/KDOB00201/log_output.txt
student@node-1:~$ cat /opt/KDOB00201/log_output.txt
1: 2b305101817ae25ca60ae46510fb6d11
2: 3648cf2eae95ab680dba8f195f891af4
3: 65c8bbd4dbf70bf81f2a0984a3a44ede
4: 40d3a9c8e46f5533bb4828fbc5c8d038
5: 390442d2530a90c3602901e3fe999ac8
6: b71d95187417e139effb33af77681040
7: 66a8e55a6491e756d2d0549ad6ab90a7
8: ff2b3d583b64125d2f9129c443bb37ff
9: b6c6a12b6e77944ed8baaaf6c242dae4
10: bfcc9a894a0604fc4b814b37d0a200a4
11: 5493cd16a1790a5fb9512b0c9d4c5dd1
12: 03f169e93e6143438e6df4ecb3cc9ed
13: 764b37fe611373c42d0b47154041f6eb
14: 1a56fbc1896b0ee6394136166281839e
15: ecc492eb17715de090c47345a98d98d3
16: 7974a6bec0fb44b6b8bbfc71aa3fbe74
17: 9ae01bef01748b12cc9f97a5f9f72cd6
18: 23fb22ee34d4272e4c9e005f1774515f
19: ec7e1a5d314da9a0ad45d53be5a7acae
20: 0bccdd8ee02cd42029e8162cd1c1197c
21: d6851ea43546216b95bcb81ced997102
22: 7ed9a38ea8bf0d86206569481442af44
23: 29b8416ddc63dbfcb987ab3c8198e9fe
24: 1f2062001df51a108ab25010f506716f
student@node-1:~$
```

Answer: ([SHOW ANSWER](#))

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