



Linux-Foundation

Exam Questions CKAD

Certified Kubernetes Application Developer (CKAD) Program

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NEW QUESTION 1

Exhibit:



Context

It is always useful to look at the resources your applications are consuming in a cluster. Task

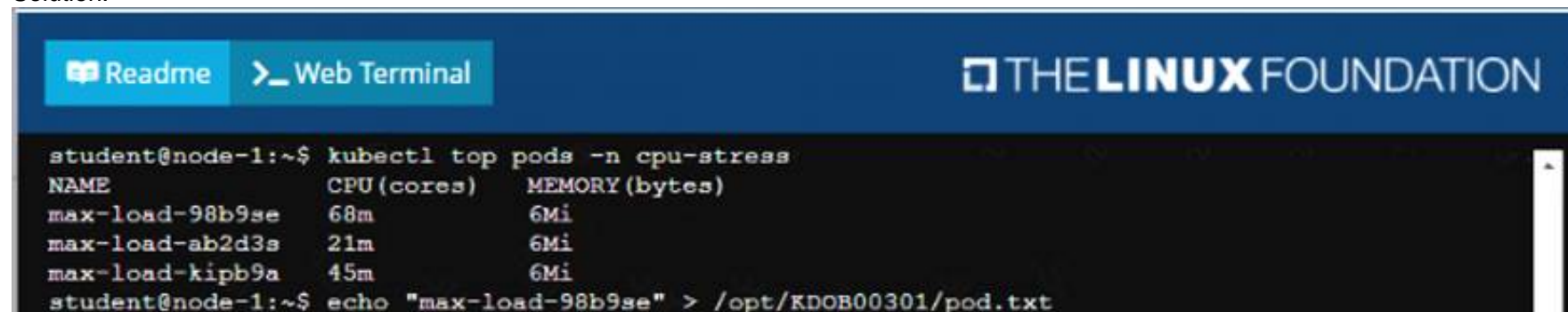
- From the pods running in namespacecpu-stress , write the name only of the pod that is consuming the most CPU to file /opt/KDOBG030I/pod.txt, which has already been created.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:



NEW QUESTION 2

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 with4replicas
- Configure the pod with a container image of Ifccncf/nginx:1.13.7
- Set an environment variable of NGINX PORT=8080and also expose that port for the container above Answer:

See the solution below.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:

Readme

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: lfcncf/nginx:1.13.7-alpine
        name: nginx
        ports:
        - containerPort: 8080
      env:
      - name: NGINX_PORT
        value: "8080"

~
                                                                    23,8      All
```


Readme
Web Terminal



```

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-7hnm  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:~$

```

NEW QUESTION 3

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. Mastered
- B. Not Mastered

Answer: A

Explanation:

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: 40d3a9c8e46f5533bb4828fbe5c8d038
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

```

Readme
Web Terminal
THE **LINUX** FOUNDATION

```

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: 40d3a9c8e46f5533bb4828fbe5c8d038
5: 390442d2530a90c3602901e3fe999ac8
6: b71d95187417e139effb33af77681040
7: 66a8e55a6491e756d2d0549ad6ab90a7
8: ff2b3d583b64125d2f9129c443bb37ff
9: b6c6a12b6e77944ed8baaaf6c242dae4
10: bfcc9a894a0604fc4b814b37d0a200a4
11: 5493cd16a1790a5fb9512b0c9d4c5dd1
12: 03f169e93e6143438e6dfe4ecb3cc9ed
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:~$

```

NEW QUESTION 4

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:

Readme
Web Terminal
THE **LINUX** FOUNDATION

```

student@node-1:~$ kubectl run nginx-resources -n pod-resources --image=nginx --dry-run=client -o
yaml > nginx_resources.yml
student@node-1:~$ vim nginx_

```


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

```

Readme
Web Terminal
THE **LINUX** FOUNDATION

```

student@node-1:~$ kubectl run nginx-resources -n pod-resources --image=nginx --dry-run=client -o
yaml > 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

```

Readme
Web Terminal
THE **LINUX** FOUNDATION

```

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

```

NEW QUESTION 5

Exhibit:



Task

A deployment is falling on the cluster due to an incorrect image being specified. Locate the deployment, and fix the problem.

Pending

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Suggest the Solution.

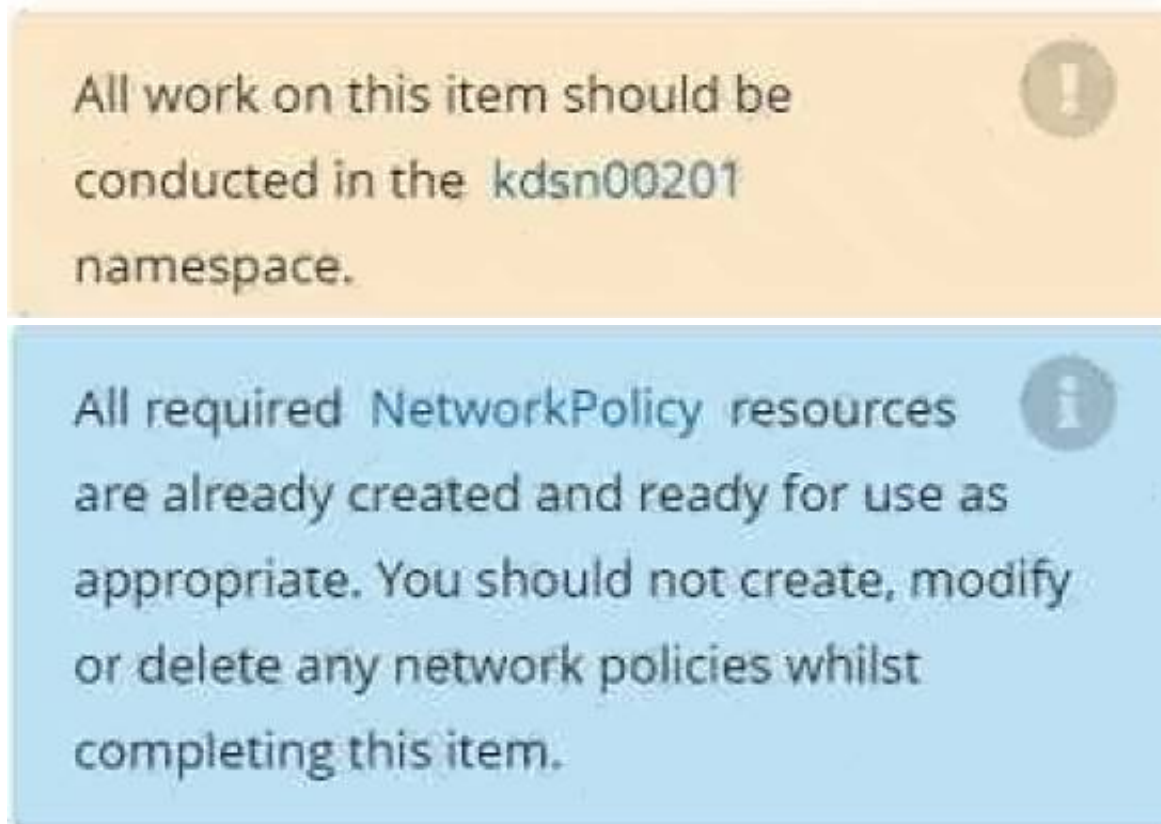
NEW QUESTION 6

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. Mastered
- B. Not Mastered

Answer: A

Explanation:

Suggest the Solution.

NEW QUESTION 7

Exhibit:

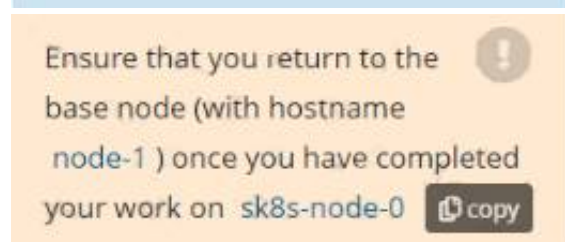
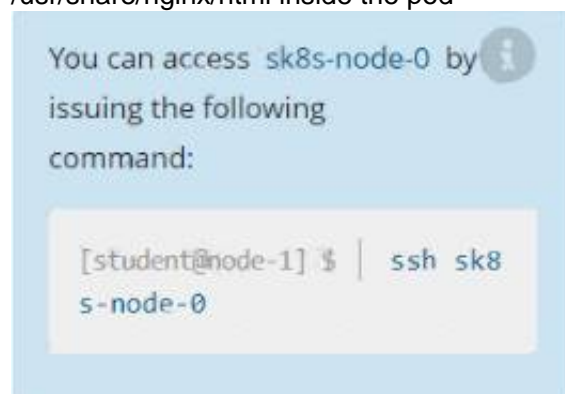


Context

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

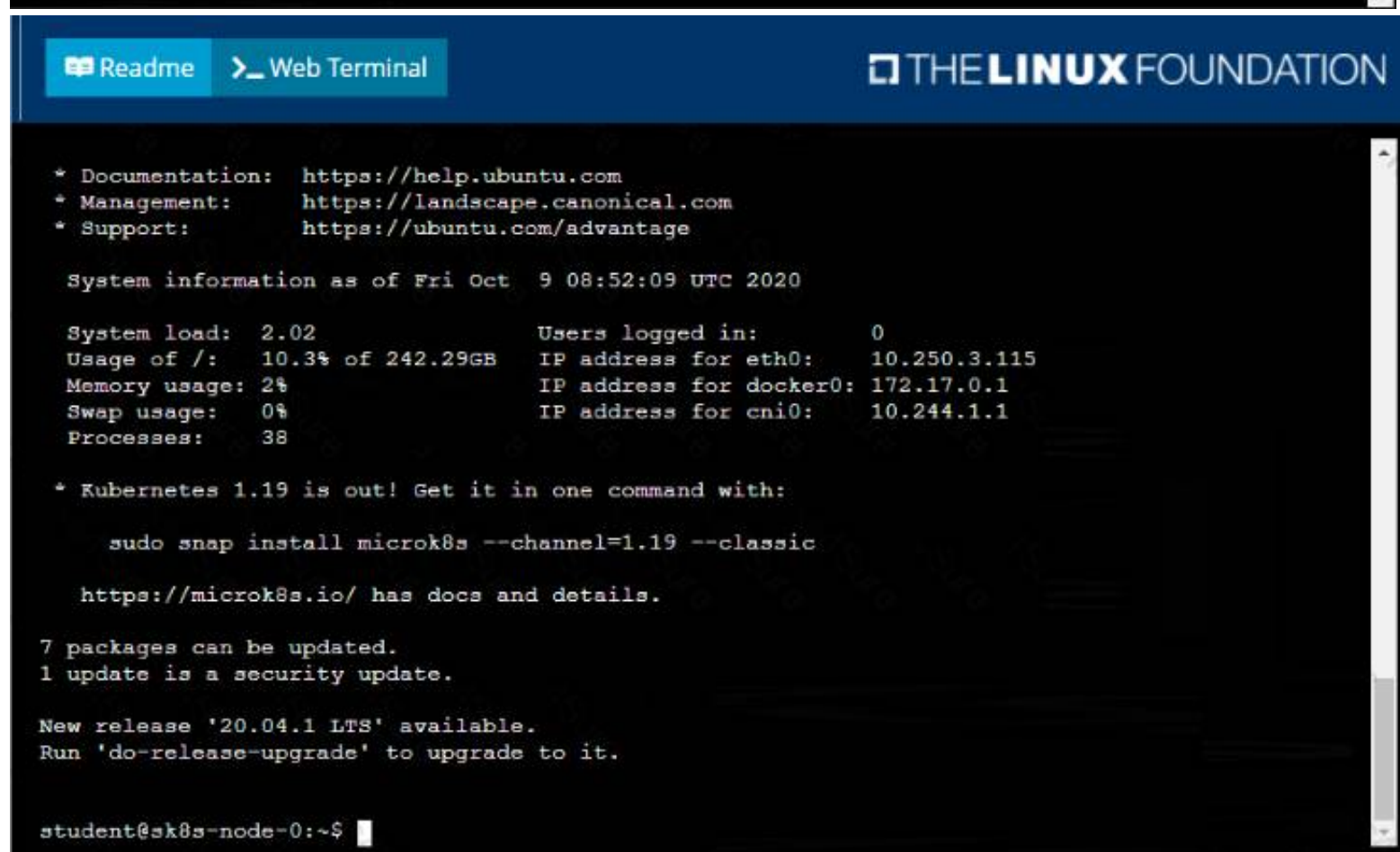
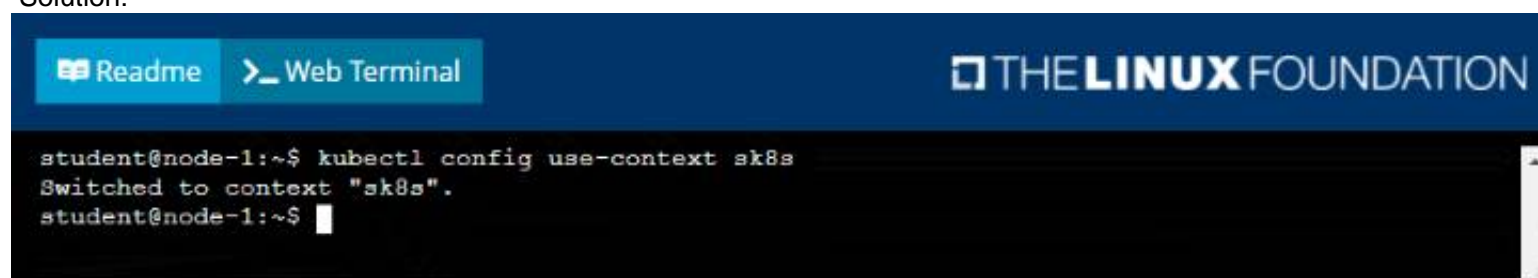


- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Solution:



```
student@sk8s-node-0:~$ echo 'Acct=Finance' > /opt/KDSP00101/data/index.html
student@sk8s-node-0:~$ vim pv.yml
```

0,1

All

```
apiVersion: v1
kind: PersistentVolume
metadata:
  name: task-pv-volume
spec:
  capacity:
    storage: 1Gi
  accessModes:
    - ReadWriteOnce
  storageClassName: storage
  hostPath:
    path: /opt/KDSP00101/data
    type: Directory
```

```
apiVersion: v1
kind: PersistentVolumeClaim
metadata:
  name: task-pv-claim
spec:
  accessModes:
    - ReadWriteOnce
  resources:
    requests:
      storage: 100Mi
  storageClassName: storage
```

```
student@sk8s-node-0:~$ kubectl create -f pv.yml
persistentvolume/task-pv-volume created
student@sk8s-node-0:~$ kubectl create -f pvc.yml
persistentvolumeclaim/task-pv-claim created
student@sk8s-node-0:~$ kubectl get pv
NAME                CAPACITY   ACCESS MODES   RECLAIM POLICY   STATUS   CLAIM                STORAGECLASS   AGE
task-pv-volume      1Gi        RWO            Retain           Bound    default/task-pv-claim storageclass      11s
student@sk8s-node-0:~$ kubectl get pvc
NAME                STATUS      VOLUME          CAPACITY   ACCESS MODES   STORAGECLASS   AGE
task-pv-claim       Bound       task-pv-volume  1Gi        RWO            storageclass   9s
student@sk8s-node-0:~$ vim pod.yml
```

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

NEW QUESTION 10

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