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QUESTION 1

SIMULATION

Create a deployment spec file that will:

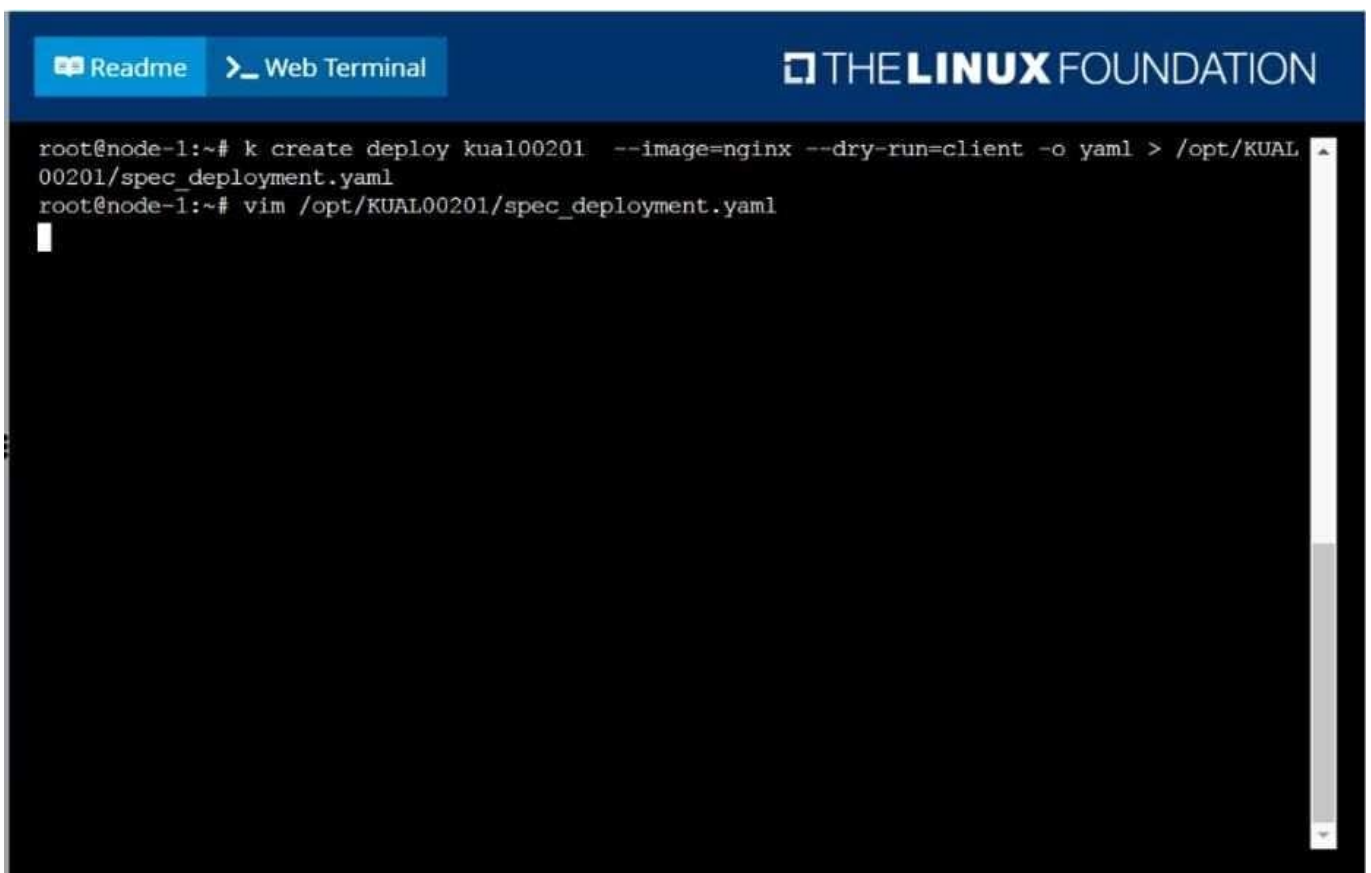
Launch 7 replicas of the nginx Image with the label `app_runtime_stage=dev`

deployment name: `kual00201`

Save a copy of this spec file to `/opt/KUAL00201/spec_deployment.yaml` (or `/opt/KUAL00201/spec_deployment.json`).

When you are done, clean up (delete) any new Kubernetes API object that you produced during this task.

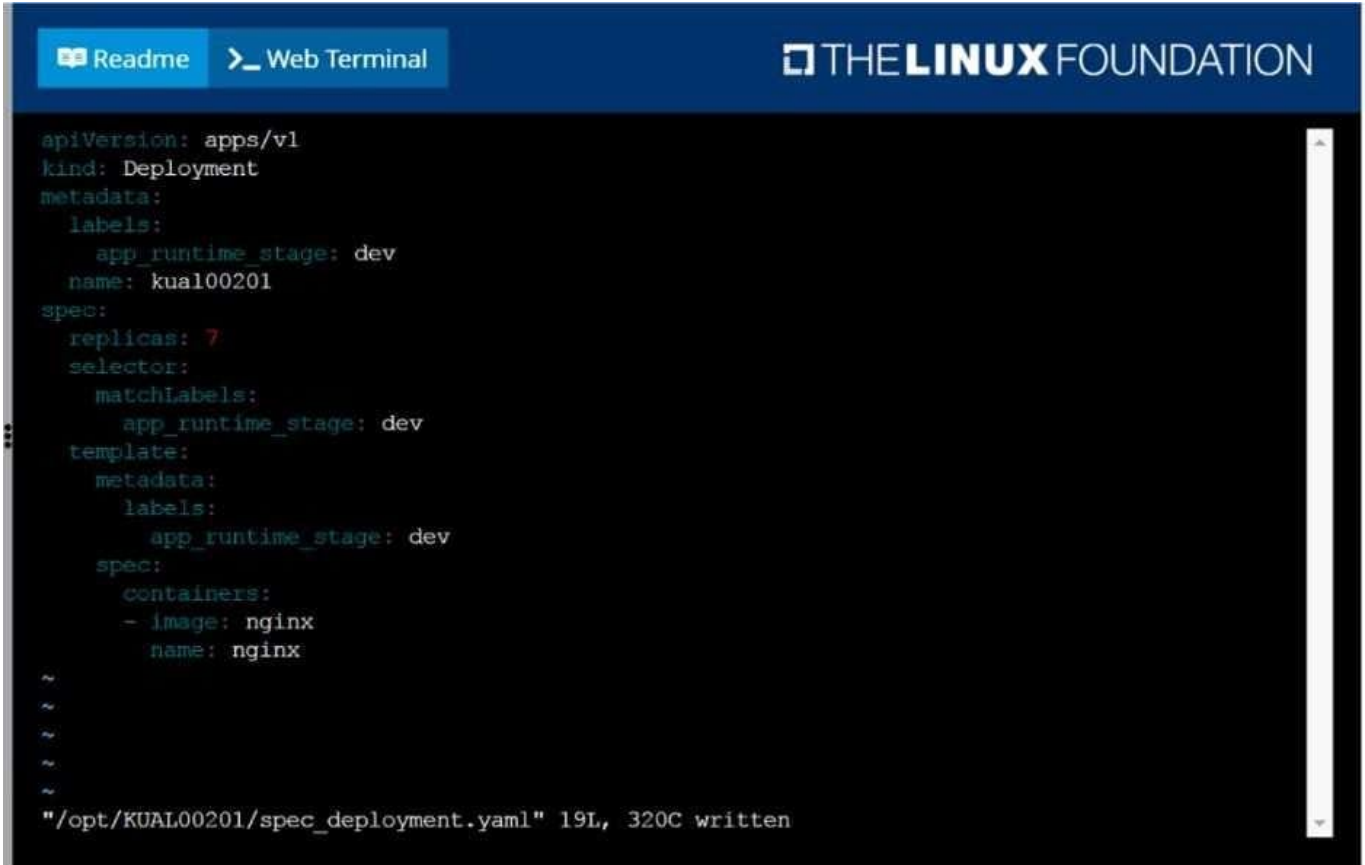
Correct Answer: Check the answer in explanation.



The screenshot shows a web terminal window with a dark blue header. On the left, there are two buttons: "Readme" and "Web Terminal". On the right, the "THE LINUX FOUNDATION" logo is displayed. The terminal content shows the following commands and output:

```
root@node-1:~# k create deploy kual00201 --image=nginx --dry-run=client -o yaml > /opt/KUAL00201/spec_deployment.yaml
root@node-1:~# vim /opt/KUAL00201/spec_deployment.yaml
```

The vim editor is open, showing a blank file with a cursor at the top left.



The screenshot shows a web terminal interface with a dark background. At the top, there are two tabs: 'Readme' and 'Web Terminal'. The 'Web Terminal' tab is active. In the top right corner, the logo for 'THE LINUX FOUNDATION' is visible. The main area of the terminal displays a YAML manifest for a Kubernetes Deployment. The manifest includes fields for apiVersion, kind, metadata (name: kual00201), spec (replicas: 7, selector: app_runtime_stage: dev), and template (image: nginx). At the bottom of the terminal, a message indicates that a file has been written: `"/opt/KUAL00201/spec_deployment.yaml" 19L, 320C written`. A vertical scrollbar is visible on the right side of the terminal window.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  labels:
    app_runtime_stage: dev
  name: kual00201
spec:
  replicas: 7
  selector:
    matchLabels:
      app_runtime_stage: dev
  template:
    metadata:
      labels:
        app_runtime_stage: dev
    spec:
      containers:
      - image: nginx
        name: nginx
~
~
~
~
~
"/opt/KUAL00201/spec_deployment.yaml" 19L, 320C written
```

QUESTION 2

Create a busybox pod that runs the command "env" and save the output to "envpod" file

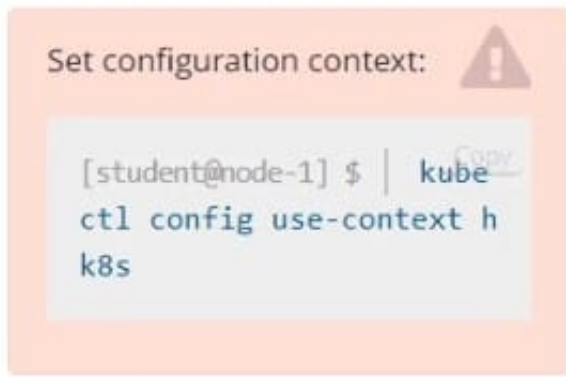
Correct Answer: Check the answer in explanation.

Solution

```
kubectl run busybox --image=busybox --restart=Never -rm -it -- env>; envpod.yaml
```

QUESTION 3

CORRECT TEXT



Task

Create a new NetworkPolicy named allow-port-from-namespace in the existing namespace echo. Ensure that the new NetworkPolicy allows Pods in namespace my-app to connect to port 9000 of Pods in namespace echo.

Further ensure that the new NetworkPolicy:

1.

does not allow access to Pods, which don't listen on port 9000

2.

does not allow access from Pods, which are not in namespace my-app

Correct Answer: Check the answer in explanation.

```
#network.yaml apiVersion: networking.k8s.io/v1 kind: NetworkPolicy metadata:
```

```
name: allow-port-from-namespace
```

```
namespace: internal
```

```
spec:
```

```
podSelector:
```

```
matchLabels: {
```

```
}
```

```
policyTypes:
```

```
-Ingress ingress:
```

```
-from:
```

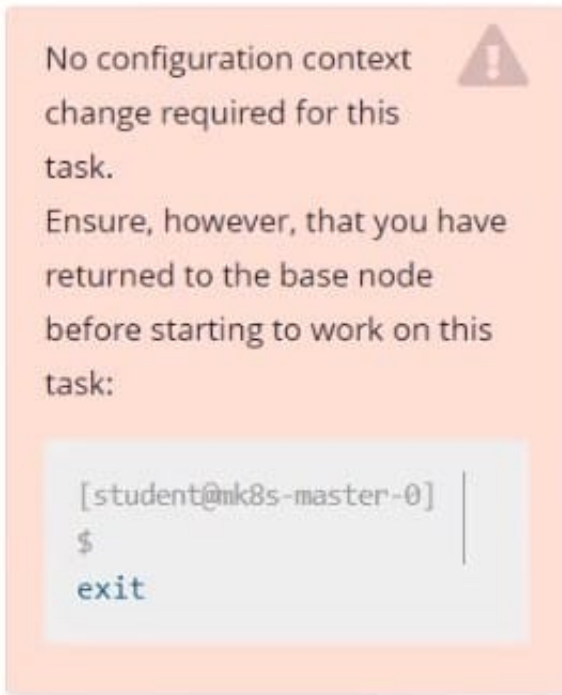
```
-podSelector: {
```

```
} ports:
```

```
-protocol: TCP port: 8080 #spec.podSelector namespace pod kubectl create -f network.yaml
```

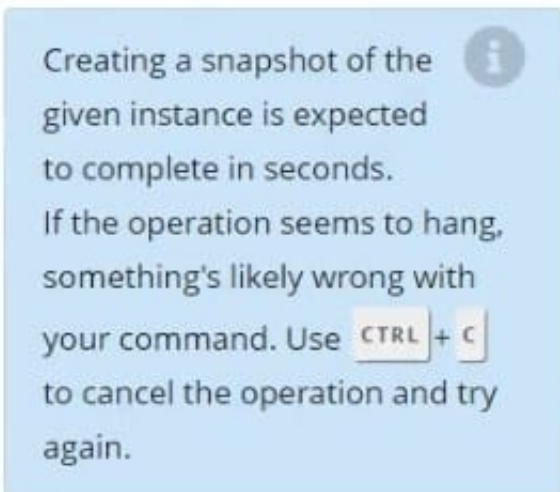
QUESTION 4

CORRECT TEXT

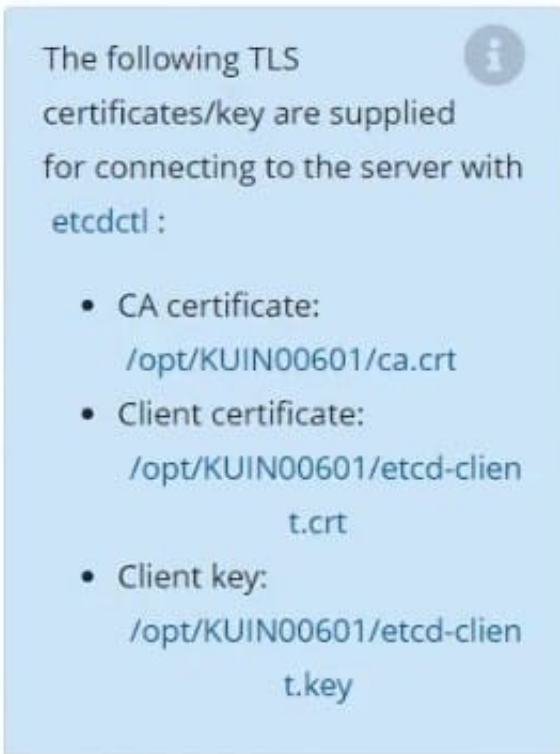


Task

First, create a snapshot of the existing etcd instance running at <https://127.0.0.1:2379>, saving the snapshot to `/srv/data/etcd-snapshot.db`.



Next, restore an existing, previous snapshot located at `/var/lib/backup/etcd-snapshot-previous.db`



Correct Answer: Check the answer in explanation.

```
#backup ETCDCCTL_API=3 etcdctl --endpoints="https://127.0.0.1:2379" -- cacert=/opt/KUIN000601/ca.crt  
--cert=/opt/KUIN000601/etcd-client.crt -- key=/opt/KUIN000601/etcd-client.key snapshot save /etc/data/etcd-  
snapshot.db
```

```
#restore ETCDCCTL_API=3 etcdctl --endpoints="https://127.0.0.1:2379" -- cacert=/opt/KUIN000601/ca.crt  
--cert=/opt/KUIN000601/etcd-client.crt -- key=/opt/KUIN000601/etcd-client.key snapshot restore /var/lib/backup/etcd-  
snapshot- previoys.db
```

QUESTION 5

Check the image version in pod without the describe command

Correct Answer: Check the answer in explanation.

```
kubectl get po nginx -o jsonpath=\{\.spec.containers[].image\}\{\n\}
```

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