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QUESTION 1

SIMULATION

Create a deployment as follows:

1.

Name: nginx-app

2.

Using container nginx with version 1.11.10-alpine

3.

The deployment should contain 3 replicas

Next, deploy the application with new version 1.11.13-alpine, by performing a rolling update. Finally, rollback that update to the previous version 1.11.10-alpine.

Correct Answer: Check the answer in explanation.

Solution

```
root@node-1:~# k create deploy nginx-app --image=nginx:1.11.10-alpine --dry-run=client -o y
aml > app.yaml
root@node-1:~# vim app.yaml
```


**QUESTION 2**

SIMULATION List "nginx-dev" and "nginx-prod" pod and delete those pods

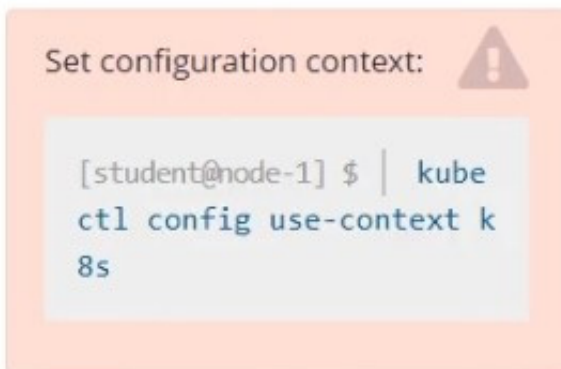
Correct Answer: Check the answer in explanation.

```
kubect1 get pods -o wide
```

```
kubectl delete po "nginx-dev" kubectl delete po "nginx-prod"
```

QUESTION 3

SIMULATION



Task

Schedule a pod as follows:

1.

Name: nginx-kusc00401

2.

Image: nginx

3.

Node selector: disk=ssd

Correct Answer: Check the answer in explanation.

```
student@node-1:~$ kubectl config use-context k8s  
Switched to context "k8s".  
student@node-1:~$ kubectl run nginx-kusc00401 --image=nginx --dry-run -o yaml
```



```
apiVersion: v1
kind: Pod
metadata:
  labels:
    run: nginx-kusc00401
  name: nginx-kusc00401
spec:
  containers:
  - image: nginx
    name: nginx
  nodeSelector:
    disk: ssd
```

```
student@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
student@node-1:~$ kubectl run nginx-kusc00401 --image=nginx --dry-run -o yaml > n.yml
W0425 15:27:18.981213 3507450 helpers.go:598] --dry-run is deprecated and can be replaced with --dry-run=client.
student@node-1:~$ vim n.yml
student@node-1:~$ kubectl create -f n.yml
pod/nginx-kusc00401 created
student@node-1:~$ kubectl get pods -o wide | grep 401
nginx-kusc00401      1/1      Running    0           12s      10.244.2.10   k8s-node-1   <none>      <none>
student@node-1:~$
```

QUESTION 4

Create a busybox pod and add "sleep 3600" command

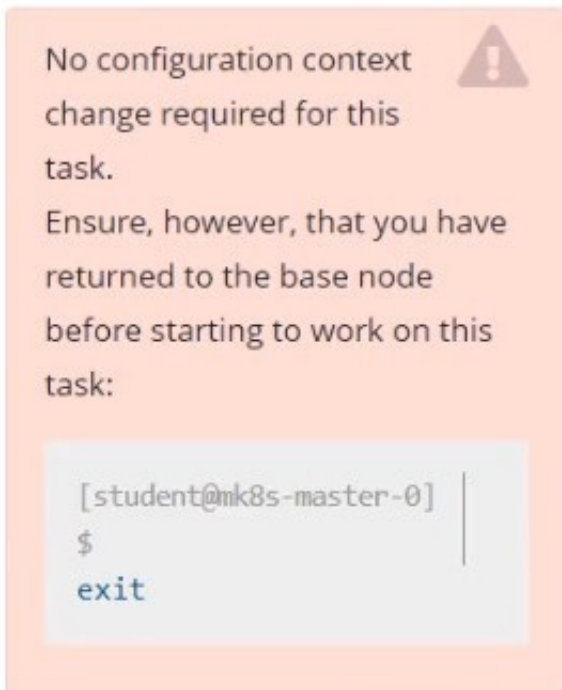
Correct Answer: Check the answer in explanation.

Solution

```
kubectl run busybox --image=busybox --restart=Never -- /bin/sh -c "sleep 3600"
```

QUESTION 5

SIMULATION



Create a snapshot of the etcd instance running at <https://127.0.0.1:2379>, saving the snapshot to the file path `/srv/data/etcd-snapshot.db`. The following TLS certificates/key are supplied for connecting to the server with `etcdctl`:

1.

CA certificate: `/opt/KUCM00302/ca.crt`

2.

Client certificate: `/opt/KUCM00302/etcd-client.crt`

3.

Client key: `/opt/KUCM00302/etcd-client.key`

Correct Answer: Check the answer in explanation.

Solution



Readme

>_ Web Terminal

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```
root@node-1:~# ETCDCCTL_API=3 etcdctl --endpoints=https://127.0.0.1:2379 --cacert=/opt/KUCM00302/ca.crt --cert=/opt/KUCM00302/etcd-client.crt --key=/opt/KUCM00302/etcd-client.key snapshot save /srv/data/etcd-snapshot.db
{"level":"info","ts":1598530470.8313155,"caller":"snapshot/v3_snapshot.go:110","msg":"created temporary db file","path":"/srv/data/etcd-snapshot.db.part"}
{"level":"warn","ts":"2020-08-27T12:14:30.838Z","caller":"clientv3/retry_interceptor.go:116","msg":"retry stream intercept"}
{"level":"info","ts":1598530470.8388612,"caller":"snapshot/v3_snapshot.go:121","msg":"fetching snapshot","endpoint":"https://127.0.0.1:2379"}
{"level":"info","ts":1598530470.8570414,"caller":"snapshot/v3_snapshot.go:134","msg":"fetched snapshot","endpoint":"https://127.0.0.1:2379","took":0.025676157}
{"level":"info","ts":1598530470.8571067,"caller":"snapshot/v3_snapshot.go:143","msg":"saved","path":"/srv/data/etcd-snapshot.db"}
Snapshot saved at /srv/data/etcd-snapshot.db
root@node-1:~#
```

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