



# CKA<sup>Q&As</sup>

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**QUESTION 1**

Create a nginx pod with label env=test in engineering namespace .

Correct Answer: Check the answer in explanation.

```
kubectl run nginx --image=nginx --restart=Never --labels=env=test --namespace=engineering --dry-run -o yaml > nginx-pod.yaml  
kubectl run nginx --image=nginx --restart=Never --labels=env=test --namespace=engineering --dry-run -o yaml | kubectl create -n engineering -f YAML File:
```

```
apiVersion: v1 kind: Pod metadata: name: nginx namespace: engineering labels: env: test spec: containers:
```

```
-name: nginx image: nginx imagePullPolicy: IfNotPresent restartPolicy: Never
```

```
kubectl create -f nginx-pod.yaml
```

---

**QUESTION 2****SIMULATION**

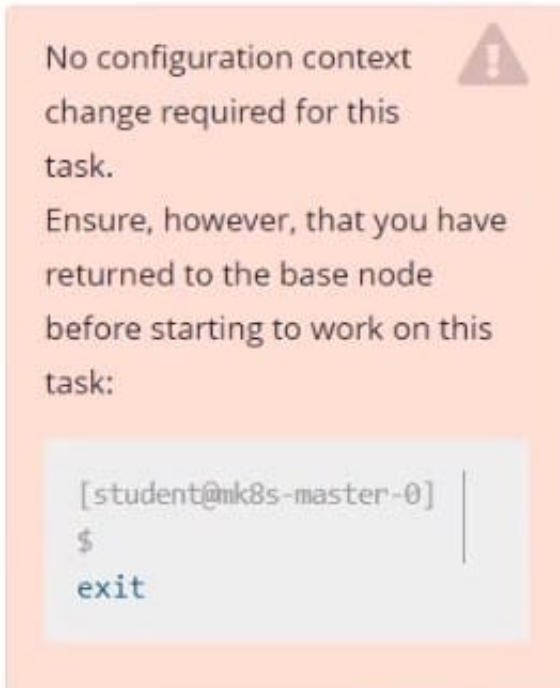
From the pod label name=cpu-utilizer, find pods running high CPU workloads and write the name of the pod consuming most CPU to the file /opt/KUTR00102/KUTR00102.txt (which already exists).

Correct Answer: Check the answer in explanation.



**QUESTION 3**

## 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



```
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root@node-1:~# ETCDCTL_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:~#
```

QUESTION 4

SIMULATION



Create a pod named kucc8 with a single app container for each of the following images running inside (there may be between 1 and 4 images specified): nginx + redis + memcached.

Correct Answer: Check the answer in explanation.



```
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root@node-1:~# vim ds.yaml
iroot@node-1:~# k create -f ds.yaml
daemonset.apps/ds-kusc00201 created
root@node-1:~# k get ds
NAME          DESIRED  CURRENT  READY  UP-TO-DATE  AVAILABLE  NODE SELECTOR  AGE
ds-kusc00201  2        2        2      2            2           <none>         4s
root@node-1:~# vim /opt/KUCC00108/pod-spec-KUCC00108.yaml
root@node-1:~# k create -f /opt/KUCC00108/pod-spec-KUCC00108.yaml
pod/hungry-bear created
root@node-1:~# k get po
NAME          READY   STATUS    RESTARTS  AGE
cpu-utilizer-98b9se  1/1    Running   0          5h50m
cpu-utilizer-ab2d3s  1/1    Running   0          5h50m
cpu-utilizer-kipb9a  1/1    Running   0          5h50m
ds-kusc00201-2r2k9   1/1    Running   0          4m50s
ds-kusc00201-hzm9q   1/1    Running   0          4m50s
foo              1/1    Running   0          5h52m
front-end         1/1    Running   0          5h52m
hungry-bear       1/1    Running   0          42s
webserver-84c55967f4-qzjcv  1/1    Running   0          6h7m
webserver-84c55967f4-t479l  1/1    Running   0          6h7m
root@node-1:~# k run nginx --image=nginx --dry-run=client -o yaml > nginx.yaml
root@node-1:~# vim nginx.yaml
```





### QUESTION 5

Create a pod with image nginx called nginx and allow traffic on port 80

Correct Answer: Check the answer in explanation.

```
kubectl run nginx --image=nginx --restart=Never --port=80
```

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