



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

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## QUESTION 1

Create 2 nginx image pods in which one of them is labelled with env=prod and another one labelled with env=dev and verify the same.

Correct Answer: Check the answer in explanation.

Solution

kubectl run --generator=run-pod/v1 --image=nginx -- labels=env=prod nginx-prod --dry-run -o yaml > nginx-prodpod.yaml Now, edit nginx-prod-pod.yaml file and remove entries like "creationTimestamp":

```
null" "dnsPolicy: ClusterFirst"
```

```
vim nginx-prod-pod.yaml
```

```
apiVersion: v1
```

```
kind: Pod
```

```
metadata:
```

```
labels:
```

```
env: prod
```

```
name: nginx-prod
```

```
spec:
```

```
containers:
```

```
-
```

```
image: nginx name: nginx-prod restartPolicy: Always # kubectl create -f nginx-prod-pod.yaml kubectl run --generator=run-pod/v1 --image=nginx -labels=env=dev nginx-dev --dry-run -o yaml > nginx-dev-pod.yaml apiVersion: v1 kind: Pod metadata: labels: env: dev name: nginx-dev spec: containers:
```

```
-
```

```
image: nginx name: nginx-dev restartPolicy: Always # kubectl create -f nginx-prod-dev.yaml Verify : kubectl get po --show-labels kubectl get po -l env=prod kubectl get po -l env=dev
```

---

## QUESTION 2

List all the pods sorted by name

Correct Answer: Check the answer in explanation.

Solution

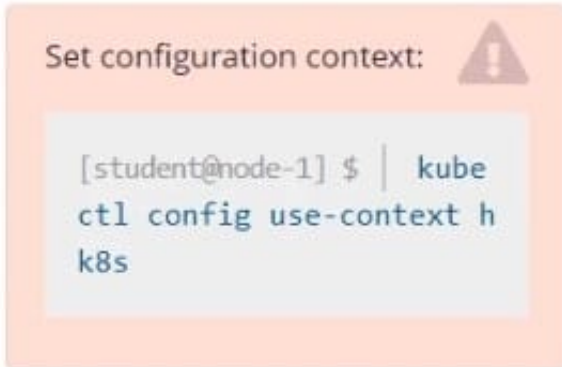
```
kubectl get pods --sort-by=.metadata.name
```

---



### QUESTION 3

CORRECT TEXT



Task

Create a persistent volume with name app-data , of capacity 1Gi and access mode ReadOnlyMany. The type of volume is hostPath and its location is /srv/app-data .

Correct Answer:

```
#vi pv.yaml apiVersion: v1 kind: PersistentVolume metadata: name: app-config spec: capacity: storage: 1Gi accessModes:
```

```
-ReadOnlyMany hostPath: path: /srv/app-config # kubectl create -f pv.yaml
```

---

### QUESTION 4

SIMULATION Ensure a single instance of pod nginx is running on each node of the Kubernetes cluster where nginx also represents the Image name which has to be used. Do not override any taints currently in place. Use DaemonSet to complete this task and use ds-kusc00201 as DaemonSet name.

Correct Answer: Check the answer in explanation.

Solution



```
Readme Web Terminal THE LINUX FOUNDATION
root@node-1:~# vim ds.yaml
i
```

```
Readme Web Terminal THE LINUX FOUNDATION
apiVersion: apps/v1
kind: DaemonSet
metadata:
  name: fluentd-elasticsearch
  namespace: kube-system
  labels:
    k8s-app: fluentd-logging
spec:
  selector:
    matchLabels:
      name: fluentd-elasticsearch
  template:
    metadata:
      labels:
        name: fluentd-elasticsearch
    spec:
      tolerations:
        # this toleration is to have the daemonset runnable on master nodes
        # remove it if your masters can't run pods
        - key: node-role.kubernetes.io/master
          effect: NoSchedule
      containers:
        - name: nginx
          image: nginx
-- INSERT -- 17,19 All
```



```
Readme Web Terminal THE LINUX FOUNDATION
apiVersion: apps/v1
kind: DaemonSet
metadata:
  name: ds-kusc00201
spec:
  selector:
    matchLabels:
      name: fluentd-elasticsearch
  template:
    metadata:
      labels:
        name: fluentd-elasticsearch
    spec:
      containers:
      - name: nginx
        image: nginx
~
~
~
~
~
~
~
: wq
```

```
Readme Web Terminal THE LINUX FOUNDATION
root@node-1:~# vim ds.yaml
root@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:~#
```



## QUESTION 5

### SIMULATION

Create a Kubernetes secret as follows:

Name: super-secret

password: bob

Create a pod named pod-secrets-via-file, using the redis Image, which mounts a secret named super- secret at /secrets.

Create a second pod named pod-secrets-via-env, using the redis Image, which exports password as CONFIDENTIAL

Correct Answer: Check the answer in explanation.

Solution

```
root@node-1:~#  
root@node-1:~# k create secret generic super-secret --from-literal=password=bob  
secret/super-secret created  
root@node-1:~# vim secret.yaml
```





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