

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

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**QUESTION 1**

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}'
```

---

**QUESTION 2**

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 3**

CORRECT TEXT

Task



Create a new PersistentVolumeClaim

1.

Name: pv-volume

2.

Class: csi-hostpath-sc

3.

Capacity: 10Mi

Create a new Pod which mounts the PersistentVolumeClaim as a volume:

1.

Name: web-server

2.

Image: nginx

3.

Mount path: /usr/share/nginx/html

Configure the new Pod to have ReadWriteOnce access on the volume.

Finally, using kubectl edit or kubectl patch expand the PersistentVolumeClaim to a capacity of 70Mi and record that change.

Correct Answer: Check the answer in explanation.

Solution:

```
vi pvc.yaml storageclass pvc apiVersion: v1 kind: PersistentVolumeClaim metadata: name: pv-volume spec:
accessModes:
```

```
-ReadWriteOnce volumeMode: Filesystem resources: requests: storage: 10Mi storageClassName: csi-hostpath-sc
```

```
# vi pod-pvc.yaml apiVersion: v1 kind: Pod metadata: name: web-server spec: containers:
```

```
-name: web-server
```

```
image: nginx
```

```
volumeMounts:
```

```
-mountPath: "/usr/share/nginx/html"
```

```
name: my-volume
```

```
volumes:
```

```
-name: my-volume
```

```
persistentVolumeClaim:
```

```
claimName: pv-volume
```

```
# craete
```

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

#edit

```
kubect1 edit pvc pv-volume --record
```

---

## QUESTION 4

Create a pod that echo "hello world" and then exists. Have the pod deleted automatically when it's completed

Correct Answer: Check the answer in explanation.

```
kubect1 run busybox --image=busybox -it --rm --restart=Never -- /bin/sh -c \'echo hello world\' kubect1 get po # You shouldn\'t see pod with the name "busybox"
```

---

## QUESTION 5

List all the pods sorted by created timestamp

Correct Answer: Check the answer in explanation.

```
kubect1 get pods--sort-by=.metadata.creationTimestamp
```

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