

# Linux-Foundation

## Exam Questions CKA

Certified Kubernetes Administrator (CKA) Program



### NEW QUESTION 1

Create a pod with environment variables as var1=value1. Check the environment variable in pod

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

```
kubectrl run nginx --image=nginx --restart=Never --env=var1=value1
# then
kubectrl exec -it nginx -- env
# or
kubectrl exec -it nginx -- sh -c 'echo $var1'
# or
kubectrl describe po nginx | grep value1
```

### NEW QUESTION 2

Given a partially-functioning Kubernetes cluster, identify symptoms of failure on the cluster.

Determine the node, the failing service, and take actions to bring up the failed service and restore the health of the cluster. Ensure that any changes are made permanently.

You can ssh to the relevant nodes (bk8s-master-0 or bk8s-node-0) using:

```
[student@node-1] $ ssh <nodename>
```

You can assume elevated privileges on any node in the cluster with the following command:

```
[student@nodename] $ | sudo ?Ci
```

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

solution

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### NEW QUESTION 3

Create a deployment spec file that will:

Launch 7 replicas of the nginx image with the label app\_runtime\_stage=dev

deployment name: kua100201

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.

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

solution

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#### NEW QUESTION 4

List the nginx pod with custom columns POD\_NAME and POD\_STATUS

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
kubectl get po -o=custom-columns="POD_NAME:.metadata.name, POD_STATUS:.status.containerStatuses[].state"
```

#### NEW QUESTION 5

Create a deployment as follows:

Name:nginx-app  
Using containernginxwithversion 1.11.10-alpine  
The deployment should contain3replicas  
Next, deploy the application with newversion1.11.13-alpine, byperforming a rolling update.  
Finally, rollback that update to theprevious version1.11.10-alpine.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

solution  
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#### NEW QUESTION 6

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
kubectlrn nginx --image=nginx --restart=Never --port=80
```

#### NEW QUESTION 7

Create a pod as follows:

Name:non-persistent-redis  
container Image:redis  
Volume with name:cache-control  
Mount path:/data/redis  
The pod should launch in the staging namespace and the volume must not be persistent.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

solution  
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#### NEW QUESTION 8

List the nginx pod with custom columns POD\_NAME and POD\_STATUS

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

kubectl get po -o=custom-columns="POD\_NAME:.metadata.name, POD\_STATUS:.status.containerStatuses[.state"

#### NEW QUESTION 9

Ensure a single instance of podnginx 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-k8s-00201 as DaemonSet name.

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

solution  
F:\Work\Data Entry Work\Data Entry\20200827\CKA\3 B.JPG

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#### NEW QUESTION 10

A Kubernetes worker node, named wk8s-node-0 is in state NotReady. Investigate why this is the case, and perform any appropriate steps to bring the node to a Ready state, ensuring that any changes are made permanent.

You can ssh to the failed node using:

```
[student@node-1] $ | ssh wk8s-node-0
```

You can assume elevated privileges on the node with the following command:

```
[student@wk8s-node-0] $ | sudo ?C
```

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

solution  
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#### NEW QUESTION 10

Get list of all pods in all namespaces and write it to file ??/opt/pods-list.yaml??

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

kubect! get po ?Call-namespaces > /opt/pods-list.yaml

#### NEW QUESTION 11

Create a Kubernetes secret asfollows:

Name: super-secret  
password: bob  
Create a pod namedpod-secrets-via-file, using theredisImage, which mounts a secret namedsuper-secretat /secrets.  
Create a second pod namedpod-secrets-via-env, using theredisImage, which exportspasswordas CONFIDENTIAL

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

solution  
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F:\Work\Data Entry Work\Data Entry\20200827\CKA\12 C.JPG

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#### NEW QUESTION 15

Configure the kubelet systemd-managed service, on the nodelabelled withname=wk8s-node-1, tolaunch a pod containing a singlecontainer of Imagehttpnamedwebtoolautomatically. Any spec filesrequired should be placed in the/etc/kubernetes/manifestsdirectoryon the node.  
You canssh to theappropriate node using:

[student@node-1] \$ sshwk8s-node-1

You can assume elevatedprivileges on the node with thefollowing command:

[student@wk8s-node-1] \$ |sudo ?Ci

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

solution  
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F:\Work\Data Entry Work\Data Entry\20200827\CKA\21 D.JPG

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**NEW QUESTION 19**

From the pod labelname=cpu-utilizer, find podsrunning high CPU workloads and write the name of the pod consumingmost CPU to thefile/opt/KUTR00102/KUTR00102.txt(which already exists).

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

solution  
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#### NEW QUESTION 22

Perform the following tasks:

Add an init container to hungry-bear (which has been defined in spec file /opt/KUCC00108/pod-spec-KUCC00108.yaml)  
The init container should create an empty file named /workdir/calm.txt  
If /workdir/calm.txt is not detected, the pod should exit  
Once the spec file has been updated with the init container definition, the pod should be created

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

solution

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#### NEW QUESTION 23

Check the Image version of nginx-dev pod using jsonpath



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
kubect1 get po nginx-dev -o jsonpath='{.spec.containers[].image}'{"\n"}
```

**NEW QUESTION 26**

Create a busybox pod and add ??sleep 3600?? command

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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

**NEW QUESTION 28**

Create and configure the servicefront-end-serviceso it's accessiblethroughNodePortand routes to theexisting pod namedfront-end.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

solution  
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**NEW QUESTION 31**

Get IP address of the pod ?C ??nginx-dev??

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
Kubect1 get po -o wide Using JsonPath  
kubect1 get pods -o=jsonpath='{range items[*]}.{metadata.name}'{"t"}{.status.podIP}'{"\n"}{end}'
```

**NEW QUESTION 35**

Schedule a pod as follows:

Name: nginx-kusc00101  
Image: nginx  
Node selector: disk=ssd

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

solution

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**NEW QUESTION 36**

Print pod name and start time to ??/opt/pod-status?? file

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
kubect1 get pods -o=jsonpath='{range items[*]}.{metadata.name}{"\t"}{.status.podIP}{"\n"}{end}'
```

**NEW QUESTION 38**

Create an nginx pod and list the pod with different levels of verbosity

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
// create a pod
kubect1 run nginx --image=nginx --restart=Never --port=80
// List the pod with different verbosity kubect1 get po nginx --v=7
kubect1 get po nginx --v=8 kubect1 get po nginx --v=9
```

**NEW QUESTION 42**

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