# **Linux Foundation**

**CKA Exam** 

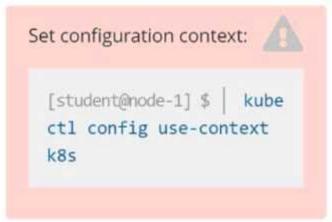
**Linux Foundation Certified Kubernetes Administrator Exam** 

# Question: 1

#### **SIMULATION**

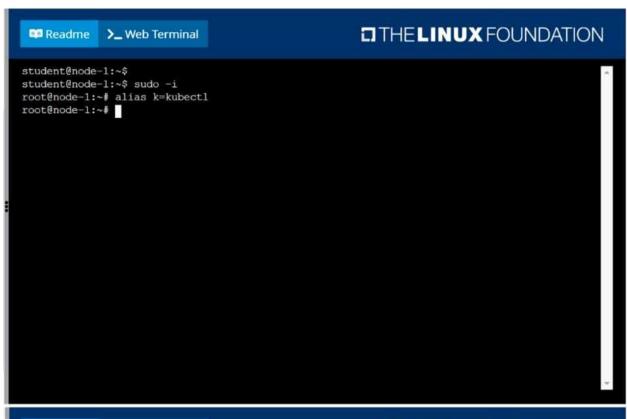
Monitor the logs of pod foo and:

- Extract log lines corresponding to error unable-to-access-website
- Write them to /opt/KULM00201/foo



Solution

solution





# Question: 2

#### **SIMULATION**

List all persistent volumes sorted by capacity, saving the full kubectl output to /opt/KUCC00102/volume\_list. Use kubectl 's own functionality for sorting the output, and do not manipulate it any further.

Solution

#### solution

Read	me	>_ Web Terminal		O THE LI	<b>NUX</b> FOUNDATION
77d					
pv0007 77d	7Gi	RWO	Recycle	Available	slow
77d	8Gi	RWO	Recycle	Available	slow
2000vq 77d	10Gi	RWO	Recycle	Available	slow
pv0002 77d	11Gi	RWO	Recycle	Available	slow
pv0010 77d	13Gi	RWO	Recycle	Available	slow
pv0011 77d	14Gi	RWO	Recycle	Available	slow
00001 77d	16Gi	RWO	Recycle	Available	slow
9v0009 77d	17Gi	RWO	Recycle	Available	slow
v0005 77d	18Gi	RWO	Recycle	Available	slow
v0008 77d	19Gi	RWO	Recycle	Available	slow
00000v0	21Gi	RWO	Recycle	Available	slow
			by=.spec.capacit	y.storage > /opt/K	UCC00102/volume_list

### **Question: 3**

#### **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.

Solution

# solution

```
THE LINUX FOUNDATION

root@node-1:~# vim ds.yaml

ill
```

```
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:
i this toleration is to have the daemonset runnable on master nodes
i 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 Ter	rminal		i i	O THE LI	NUXFOUN	DATION
iroot@node- daemonset.a	:~# vim ds.y 1:~# k creat pps/ds-kusc0 :~# k get ds	e -f ds.ya 0201 creat					
NAME	DESIRED	CURRENT	READY	UP-TO-DATE	AVAILABLE	NODE SELECTOR	AGE
ds-kusc0020		2	2	2	2	<none></none>	4s
root@node-1	:~#						

Question: 4	
List all the pods sorted by created timestamp	
	Solution
kubect1 get podssort-by=.metadata.creationTimestamp	
Question: 5	
List all the pods showing name and namespace with a json path expre	ssion
	Solution

kubectl get pods -o=jsonpath="{.items[\*]['metadata.name', 'metadata.namespace']}"