

# Linux Foundation

Certified Kubernetes Administrator (CKA) Program

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# QUESTIONS & ANSWERS DEMOVERSION (LIMITED CONTENT)

# Version: 8.0

### Question: 1

Monitor the logs of pod foo and: Extract log lines corresponding to error unable-to-access-website Write /opt/KULM00201/foo

Set configuration context:

[student@node-1] \$

ctl config use-context

them

kube

to

Answer: See the solution below.

Explanation: solution

k8s

Readme >_ Web Terminal	THELINUX FOUNDATION
student@node-1:~\$ student@node-1:~\$ sudo -i root@node-1:~# alias k=kubectl root@node-1:~#	
Readme >_ Web Terminal	THELINUX FOUNDATION
root@node-1:~# k logs foo   grep una Thu Aug 27 05:25:28 UTC 2020 - ERROR	ble-to-access-website

Question: 2

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.

Answer: See the solution below.

Explanation: solution

Read	me	>_ Web Terminal		<b>O</b> THE LI	<b>NUX</b> FOUNDATION	
77d						-
pv0007 77d	7Gi	RWO	Recycle	Available	slow	
pv0006 77d	8Gi	RWO	Recycle	Available	slow	
pv0003 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	
pv0001 77d	16Gi	RWO	Recycle	Available	slow	
pv0009 77d	17Gi	RWO	Recycle	Available	slow	
pv0005 77d	18Gi	RWO	Recycle	Available	slow	
pv0008 77d	19Gi	RWO	Recycle	Available	slow	
pv0000 77d	21Gi	RWO	Recycle	Available	slow	
root@nod root@nod			-by=.spec.capacit	y.storage > /opt/K	UCC00102/volume_list	+

#### **Question: 3**

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.

Answer: See the solution below.

Explanation: solution

Readme >_ Web Terminal	
root@node-1:~# vim ds.yaml i	
Readme >_ Web Terminal	
<pre>Preadme &gt;_Web Terminal  #Piversion: apps/v1 Kind: DaemonSet metadata:     mame: fluentd-elasticsearch     mamespace: kube-system     labels:     k8s-app: fluentd-logging spec:     selector:     matchlabels:     name: fluentd-elasticsearch  femplate:     indersite:     iname: fluentd-elasticsearch  spec:     tolerations:     fluentd-elasticsearch </pre>	emonset runnable on master nodes in pods

Readme >_ Web Termin	al		OTHELI	NUXFOUN	DATION
<pre>apiVersion: apps/v1 kind: DaemonSet metadata:     name: ds-kusc00201 spec:     selector:     matchLabels:     name: fluentd-elastic     template:         name: fluentd-elastic     spec:         containers:         - name: nginx         image: nginx     *</pre>					
Readme >_ Web Termin	al	l		NUXFOUN	DATION
<pre>root@node-1:~# vim ds.yaml iroot@node-1:~# k create -f daemonset.apps/ds-kusc00201 root@node-1:~# k get ds NAME DESIRED CU ds-kusc00201 2 2 root@node-1:~#</pre>	created	UP-TO-DATE 2	AVAILABLE 2	NODE SELECTOR <none></none>	AGE 4s

#### **Question: 4**

Perform the following tasks:

Add an init container to hungry-bear (which has been defined in spec file /opt/KUCC00108/pod-spec-KUC

C00108.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

Answer: See the solution below.

Explanation: solution

😂 Readm	e >_ Web Ter	rminal			aTHELI	NUX FOUN	DATION
iroot@node daemonset	-1:~# vim ds.y z-1:~# k creat .apps/ds-kusc0 -1:~# k get ds	e -f ds.yan 0201 create					^
NAME	DESIRED	CURRENT	READY	UP-TO-DATE	AVAILABLE	NODE SELECTOR	AGE
ds-kusc00	201 2	2	2	2	2	<none></none>	45
root@node	-1:~# vim /opt	/KUCC00108/	/pod-spec	с-КUCC00108.у	aml		

Readme >_ Web Terminal	OTHEL	INUX FOUN	DATION
<pre>apiVersion: v1 kind: Pod metadata:     name: hungry-bear spec:     volumes:         - name: workdir         emptyDir:     containers:         - name: checker         image: alpine         command: ["/bin/sh", "-c",</pre>			
Readme >_ Web Terminal	THEL	NUXFOUN	DATION
<pre>root@node-1:~# vim ds.yaml iroot@node-1:~# k create -f ds. daemonset.apps/ds-kusc00201 cre root@node-1:~# k get ds NAME DESIRED CURREN ds-kusc00201 2 2 root@node-1:~# vim /opt/KUCC001 root@node-1:~# k create -f /opt pod/hungry-bear created root@node-1:~#</pre>	ated TT READY UP-TO-DATE AVAILABLE 2 2 2 2	NODE SELECTOR <none></none>	AGE 4s

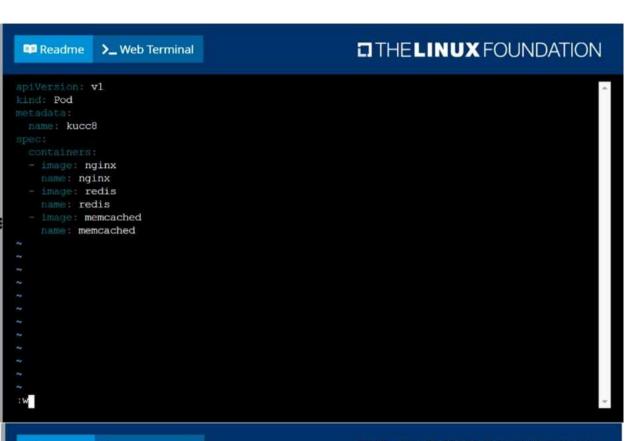
#### Question: 5

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.

Answer: See the solution below.

Explanation: solution

Readme >_ Web Termin	nal		i	THELI	NUXFOUN	IDATIC	N
<pre>root@node-1:~# vim ds.yaml iroot@node-1:~# k create - daemonset.apps/ds-kusc0020 root@node-1:~# k get ds </pre>	f ds.yaml 1 created					3.675	•
NAME DESIRED C ds-kusc00201 2 2		READY U	P-TO-DATE	AVAILABLE 2	NODE SELECTOR	AGE 4s	
<pre>root@node-1:~# vim /opt/KUG root@node-1:~# k create -f pod/hungry-bear created root@node-1:~# k get po</pre>							
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-t4791	1/1	Running	0	6h7m			
root@node-1:~# k run nginx root@node-1:~# vim nginx.y		nginxd	ry-run=clie	nt -o yaml :	> nginx.yaml		.4



#### Readme >\_ Web Terminal

## THELINUX FOUNDATION

cpu-utilizer-98b9se	1/1	Running		0	5h51m	
cpu-utilizer-ab2d3s	1/1	Running		0	5h51m	
cpu-utilizer-kipb9a	1/1	Running		0	5h51m	
ds-kusc00201-2r2k9	1/1	Running		0	6m12s	
ds-kusc00201-hzm9q	1/1	Running		0	6m12s	
foo	1/1	Running		0	5h54m	
front-end	1/1	Running		0	5h53m	
hungry-bear	1/1	Running		0	2m4s	
kucc8	0/3	Running ContainerCreating Running		0	4s	
webserver-84c55967f4-qzjcv	1/1	Running		0	6h9m	
webserver-84c55967f4-t4791	1/1	Running		0	6h9m	
root@node-1:~# k get po						
NAME	READY	STATUS	RESTARTS	AGE		
cpu-utilizer-98b9se	1/1	Running	0	5h52m		
cpu-utilizer-ab2d3s	1/1	Running	0	5h52m		
cpu-utilizer-kipb9a	1/1	Running	0	5h52m		
ds-kusc00201-2r2k9	1/1	Running	0	6m31s		
ds-kusc00201-hzm9q	1/1	Running	0	6m31s		
foo	1/1	Running	0	5h54m		
front-end	1/1	Running	0	5h54m		
hungry-bear	1/1	Running	0	2m23s		
kucc8	3/3	Running	0	23s		
webserver-84c55967f4-qzjcv	1/1	Running	0	6h9m		
webserver-84c55967f4-t4791	1/1	Running	0	6h9m		
root@node-1:~#						

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