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Linux Foundation

CKA Exam

Kubernetes Administrator

Questions & Answers

(Demo Version - Limited Content)

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Version: 8.0

Question: 1

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

Write them

/opt/KULM00201/foo



Answer: See the solution below.

to

Explanation: solution

```
THE LINUX FOUNDATION
 Readme >_ Web Terminal
student@node-1:~$
student@node-1:~$ sudo -i
root@node-1:~# alias k=kubectl
root@node-1:~#
                                                                         THE LINUX FOUNDATION
 Readme
                  >_ Web Terminal
root@node-1:~# k logs foo | grep unable-to-access-website
Thu Aug 27 05:25:28 UTC 2020 - ERROR - unable-to-access-website
root@node-1:~# k logs foo | grep unable-to-access-website > /opt/KULM00201/foo
root@node-1:~#
```

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



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.

17,19

Explanation: solution

- INSERT --

```
THE LINUX FOUNDATION
 Readme >_ Web Terminal
root@node-1:~# vim ds.yaml
i
                                                             THE LINUX FOUNDATION
 Readme >_ Web Terminal
apiVersion: apps/vl
kind: DaemonSet
  name: fluentd-elasticsearch
  namespace: kube-system
    k8s-app: fluentd-logging
     name: fluentd-elasticsearch
        name: fluentd-elasticsearch
      tolerations:

$\display$ this toleration is to have the daemonset runnable on master nodes

$\display$ remove it if your masters can't run pods

    key: node-role.kubernetes.io/master
effect: NoSchedule

      - name: nginx
image: nginx
```

```
THE LINUX FOUNDATION
 Readme >_ Web Terminal
apiversion: apps/vl
kind: DaemonSet
 name: ds-kusc00201
    name: fluentd-elasticsearch
       name: fluentd-elasticsearch
     - name: nginx
image: nginx
                                                  THE LINUX FOUNDATION
 Readme
            >_ Web Terminal
root@node-1:~# vim ds.yaml
iroot@node-1:~# k create -f ds.yaml
daemonset.apps/ds-kusc00201 created
root@node-1:~# k get ds
            DESIRED CURRENT READY
                                       UP-TO-DATE AVAILABLE NODE SELECTOR
                                                                              AGE
ds-kusc00201
ds-kusc00201 2
root@node-1:~#
                                                              <none>
                                                                              48
```

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





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



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