



Free Questions for CKA by vceexamstest

Shared by Kramer on 07-06-2022

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Question 1

Question Type: MultipleChoice

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.

Options:

A) solution

```
77d
pv0007 7Gi      RWO      Recycle   Available  slow
77d
pv0006 8Gi      RWO      Recycle   Available  slow
77d
pv0003 10Gi     RWO      Recycle   Available  slow
77d
pv0002 11Gi     RWO      Recycle   Available  slow
77d
pv0010 13Gi     RWO      Recycle   Available  slow
77d
pv0011 14Gi     RWO      Recycle   Available  slow
77d
pv0001 16Gi     RWO      Recycle   Available  slow
77d
pv0009 17Gi     RWO      Recycle   Available  slow
77d
pv0005 18Gi     RWO      Recycle   Available  slow
77d
pv0008 19Gi     RWO      Recycle   Available  slow
77d
pv0000 21Gi     RWO      Recycle   Available  slow
77d
root@node-1:~# k get pv --sort-by=.spec.capacity.storage > /opt/KUCC00102/volume_list
root@node-1:~# █
```

B) solution

```
77d
pv0007 7Gi      RWO      Recycle   Available slow
77d
pv0006 8Gi      RWO      Recycle   Available slow
77d
pv0003 10Gi     RWO      Recycle   Available slow
77d
pv0002 11Gi     RWO      Recycle   Available slow
77d
pv0010 13Gi     RWO      Recycle   Available slow
77d
pv0011 14Gi     RWO      Recycle   Available slow
77d
pv0001 16Gi     RWO      Recycle   Available slow
77d
pv0009 17Gi     RWO      Recycle   Available slow
77d
pv0005 18Gi     RWO      Recycle   Available slow
77d
pv0008 19Gi     RWO      Recycle   Available slow
77d
pv0000 21Gi     RWO      Recycle   Available slow
77d
root@node-1:~# k get pv --sort-by=.spec.capacity.storage > /opt/KUCC00102/volume_list
root@node-1:~# █
```

Answer:

B

Question 2

Question Type: MultipleChoice

SIMULATION

Monitor the logs of pod foo and:

* Extract log lines corresponding to error

unable-to-access-website

* Write them to

/opt/KULM00201/foo

image not found or type unknown



Options:

A) solution

```
student@node-1:~$  
student@node-1:~$ sudo -i  
root@node-1:~# alias k=kubectl  
root@node-1:~# █
```



```
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
root@node-1:~# █
```

B) solution

```
student@node-1:~$  
student@node-1:~$ sudo -i  
root@node-1:~# alias k=kubectl  
root@node-1:~# █
```

```
Readme Web Terminal THE LINUX FOUNDATION
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
root@node-1:~#
```

Answer:

A

Question 3

Question Type: MultipleChoice

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.

Options:

A) solution

Readme

Web Terminal

THE **LINUX** FOUNDATION

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

```
i
```

```
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:
        # this toleration is to have the daemonset runnable on master nodes
        # remove it if your masters can't run pods
        - key: node-role.kubernetes.io/master
          effect: NoSchedule
      containers:
        - name: nginx
          image: nginx
-- INSERT --
```

```
apiVersion: apps/v1
kind: DaemonSet
metadata:
  name: ds-kusc00201
spec:
  selector:
    matchLabels:
      name: fluentd-elasticsearch
  template:
    metadata:
      labels:
        name: fluentd-elasticsearch
    spec:
      containers:
      - name: nginx
        image: nginx
```

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```

```
:wq
```

```
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
NAME           DESIRED   CURRENT   READY   UP-TO-DATE
ds-kusc00201   2         2         2       2
root@node-1:~#
```

B) solution

Readme

Web Terminal

THE **LINUX** FOUNDATION

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

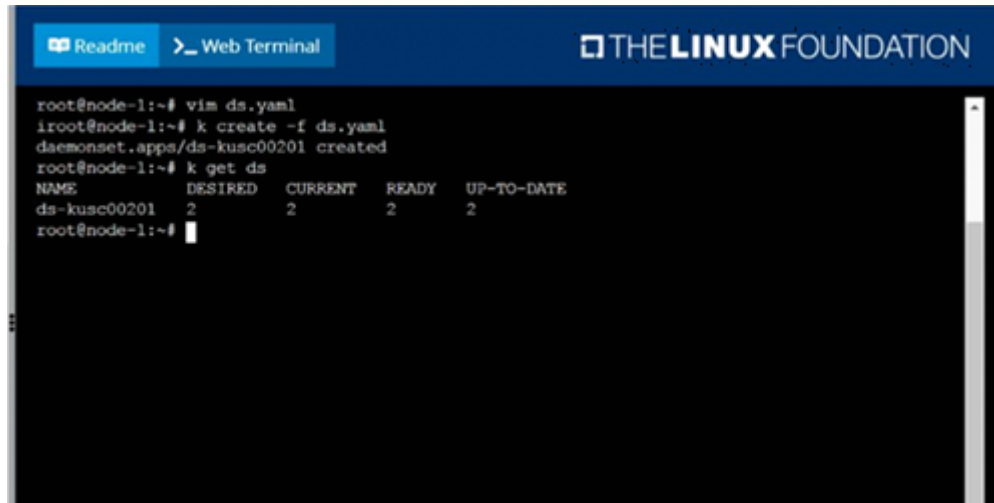
```
i
```

```
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:
        # this toleration is to have the daemonset runnable on master nodes
        # remove it if your masters can't run pods
        - key: node-role.kubernetes.io/master
          effect: NoSchedule
      containers:
        - name: nginx
          image: nginx
-- INSERT --
```

```
apiVersion: apps/v1
kind: DaemonSet
metadata:
  name: ds-kusc00201
spec:
  selector:
    matchLabels:
      name: fluentd-elasticsearch
  template:
    metadata:
      labels:
        name: fluentd-elasticsearch
    spec:
      containers:
      - name: nginx
        image: nginx
```

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```

```
:wq
```



The screenshot shows a web terminal interface with a dark background and a blue header. The header contains a 'Readme' button, a 'Web Terminal' button, and the 'THE LINUX FOUNDATION' logo. The terminal content shows the following sequence of commands and output:

```
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
NAME          DESIRED  CURRENT  READY  UP-TO-DATE
ds-kusc00201  2        2        2      2
root@node-1:~#
```

Answer:

A

Question 4

Question Type: MultipleChoice

SIMULATION

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

Options:

A) solution

```
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
NAME                DESIRED    CURRENT    READY    UP-TO-DATE    AVAILABLE    NODE SELECTOR    AGE
ds-kusc00201        2          2          2        2             2            <none>           4s
root@node-1:~# vim /opt/KUCC00108/pod-spec-KUCC00108.yaml
```

```
apiVersion: v1
kind: Pod
metadata:
  name: hungry-bear
spec:
  volumes:
    - name: workdir
      emptyDir: {}
  containers:
    - name: checker
      image: alpine
      command: ["/bin/sh", "-c", "if [ -f /workdir/calm.txt ];
                then sleep 100000; else exit 1; fi"]
      volumeMounts:
        - name: workdir
          mountPath: /workdir
    - name: create
      image: alpine
      command: ["/bin/sh", "-c", "touch /workdir/calm.txt"]
      volumeMounts:
        - name: workdir
          mountPath: /workdir
```

```
:wq
```

B) solution


```
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
NAME                DESIRED    CURRENT    READY    UP-TO-DATE    AVAILABLE    NODE SELECTOR    AGE
ds-kusc00201        2          2          2        2             2            <none>           4s
root@node-1:~# vim /opt/KUCC00108/pod-spec-KUCC00108.yaml
```

```
apiVersion: v1
kind: Pod
metadata:
  name: hungry-bear
spec:
  volumes:
    - name: workdir
      emptyDir:
  containers:
    - name: checker
      image: alpine
      command: ["/bin/sh", "-c", "if [ -f /workdir/calm.txt ];
                then sleep 100000; else exit 1; fi"]
      volumeMounts:
        - name: workdir
          mountPath: /workdir
    initContainers:
    - name: create
      image: alpine
      command: ["/bin/sh", "-c", "touch /workdir/calm.txt"]
      volumeMounts:
        - name: workdir
          mountPath: /workdir
```

```
:wq
```

```
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
NAME                DESIRED   CURRENT   READY   UP-TO-DATE   AVAILABLE   NODE SELECTOR   AGE
ds-kusc00201        2         2         2       2             2           <none>          4s
root@node-1:~# vim /opt/KUCC00108/pod-spec-KUCC00108.yaml
root@node-1:~# k create -f /opt/KUCC00108/pod-spec-KUCC00108.yaml
pod/hungry-bear created
root@node-1:~#
```

Answer:

B

Question 5

Question Type: MultipleChoice

SIMULATION

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.

Options:

A) solution

```
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
NAME                DESIRED    CURRENT    READY    UP-TO-DATE    AVAILABLE    NODE SELECTOR    AGE
ds-kusc00201        2          2          2        2             2            <none>           4s
root@node-1:~# vim /opt/KUCC00108/pod-spec-KUCC00108.yaml
root@node-1:~# k create -f /opt/KUCC00108/pod-spec-KUCC00108.yaml
pod/hungry-bear created
root@node-1:~# k get po
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 --image=nginx --dry-run=client -o yaml > nginx.yaml
root@node-1:~# vim nginx.yaml
```

```
apiVersion: v1
kind: Pod
metadata:
  name: kucc8
spec:
  containers:
  - image: nginx
    name: nginx
  - image: redis
    name: redis
  - image: memcached
    name: memcached
```

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```
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    ContainerCreating 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:~# █
```

B) solution


```
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
NAME                DESIRED    CURRENT    READY    UP-TO-DATE    AVAILABLE    NODE SELECTOR    AGE
ds-kusc00201        2          2          2        2             2            <none>           4s
root@node-1:~# vim /opt/KUCC00108/pod-spec-KUCC00108.yaml
root@node-1:~# k create -f /opt/KUCC00108/pod-spec-KUCC00108.yaml
pod/hungry-bear created
root@node-1:~# k get po
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-t479l 1/1       Running   0           6h7m
root@node-1:~# k run nginx --image=nginx --dry-run=client -o yaml > nginx.yaml
root@node-1:~# vim nginx.yaml
```

```
apiVersion: v1
kind: Pod
metadata:
  name: kucc8
spec:
  containers:
  - image: nginx
    name: nginx
  - image: redis
    name: redis
  - image: memcached
    name: memcached
```

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:W

```
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    ContainerCreating 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:~#
```

Answer:

B

Question 6

Question Type: MultipleChoice

SIMULATION

Create and configure the service front-end-service so it's accessible through NodePort and routes to the existing pod named front-end.

Options:

A) solution

```
root@node-1:~# k expose po
error: resource(s) were provided, but no name, label selector, or --all flag specified
See 'kubectl expose -h' for help and examples
root@node-1:~# k expose po fron-end --name=front-end-service --port=80 --target-port=80 --t
ype=NodePort
Error from server (NotFound): pods "fron-end" not found
root@node-1:~# k expose po front-end --name=front-end-service --port=80 --target-port=80 --
type=NodePort
service/front-end-service exposed
root@node-1:~# k get svc
NAME                TYPE          CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
front-end-service   NodePort      10.103.221.227  <none>           80:31828/TCP    3s
kubernetes          ClusterIP     10.96.0.1       <none>           443/TCP         77d
root@node-1:~# █
```

B) solution

Readme

Web Terminal

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```
root@node-1:~# k expose po
error: resource(s) were provided, but no name, label selector, or --all flag specified
See 'kubectl expose -h' for help and examples
root@node-1:~# k expose po fron-end --name=front-end-service --port=80 --target-port=80 --t
ype=NodePort
Error from server (NotFound): pods "fron-end" not found
root@node-1:~# k expose po front-end --name=front-end-service --port=80 --target-port=80 --
type=NodePort
service/front-end-service exposed
root@node-1:~# k get svc
NAME                TYPE          CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
front-end-service   NodePort      10.103.221.227  <none>           80:31828/TCP     3s
kubernetes          ClusterIP     10.96.0.1       <none>           443/TCP          77d
root@node-1:~#
```

Answer:

B

Question 7

Question Type: MultipleChoice

SIMULATION

Create a deployment as follows:

- * Name: nginx-app
- * Using container nginx with version 1.11.10-alpine
- * The deployment should contain 3 replicas

Next, deploy the application with new version 1.11.13-alpine, by performing a rolling update.

Finally, rollback that update to the previous version 1.11.10-alpine.

Options:

A) solution


```
root@node-1:~# k create deploy nginx-app --image=nginx:1.11.10-alpine --dry-run=client -o y  
aml > app.yaml  
root@node-1:~# vim app.yaml
```



```
root@node-1:~# k create deploy nginx-app --image=nginx:1.11.10-alpine --dry-run=client -o y
aml > app.yaml
root@node-1:~# vim app.yaml
root@node-1:~# k create -f app.yaml
deployment.apps/nginx-app created
root@node-1:~#
root@node-1:~#
root@node-1:~# k set image deploy nginx-app nginx=nginx:1.11.13-alpine --record
deployment.apps/nginx-app image updated
```

B) solution

```
root@node-1:~# k create deploy nginx-app --image=nginx:1.11.10-alpine --dry-run=client -o y  
aml > app.yaml  
root@node-1:~# vim app.yaml
```



```
root@node-1:~# k create deploy nginx-app --image=nginx:1.11.10-alpine --dry-run=client -o y
aml > app.yaml
root@node-1:~# vim app.yaml
root@node-1:~# k create -f app.yaml
deployment.apps/nginx-app created
root@node-1:~#
root@node-1:~#
root@node-1:~# k set image deploy nginx-app nginx=nginx:1.11.13-alpine --record
deployment.apps/nginx-app image updated
```

Answer:

A

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