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Exhibit:



Task Create a new deployment for running.nginx with the following parameters; Run the deployment in the kdpd00201 namespace. The namespace has already been created Name the deployment frontend and configure with 4 replicas Configure the pod with a container image of Ifccncf/nginx:1.13.7 Set an environment variable of NGINX__PORT=8080 and also expose that port for the container above

A. Please check explations

B. Place Holder

Correct Answer: AB











Exhibit:



Context You have been tasked with scaling an existing deployment for availability, and creating a service to expose the deployment within your infrastructure. Task Start with the deployment named kdsn00101-deployment which has already been deployed to the namespace kdsn00101. Edit it to: Add the func=webFrontEnd key/value label to the pod template metadata to identify the pod for the service definition Have 4 replicas Next, create ana deploy in namespace kdsn00l01 a service that accomplishes the following: Exposes the service on TCP port 8080 Is mapped to me pods defined by the specification of kdsn00l01-deployment Is of type NodePort Has a name of cherry

- A. Please check explations
- B. Place Holder



Correct Answer: AB

student@node-1:~\$ kubectl edit deployment kdsn00101-deployment -n kdsn00101





```
student@node-1:~$ kubectl edit deployment kdsn00101-deployment -n kdsn00101
deployment.apps/kdsn00101-deployment edited
student@node-1:~$ kubectl get deployment kdsn00101-deployment -n kdsn00101
NAME READY UP-TO-DATE AVAILABLE AGE
kdsn00101-deployment 4/4 4 4 7h17m
student@node-1:~$ kubectl expose deployment kdsn00101-deployment -n kdsn00101 --type NodePort --
port 8080 --name cherry
service/cherry exposed
```

Context Anytime a team needs to run a container on Kubernetes they will need to define a pod within which to run the container. Task Please complete the following: Create a YAML formatted pod manifest /opt/KDPD00101/podl.yml to create a pod named app1 that runs a container named app1cont using image Ifccncf/arg-output with these command line arguments: -lines 56 -F Create the pod with the kubect1 command using the YAML file created in the previous step When the pod is running display summary data about the pod in JSON format using the kubect1 command and redirect the output to a file named /opt/KDPD00101/out1.json All of the files you need to work with have been created, empty, for your convenience

When creating your pod, you do not need to specify a container command, only args.



- A. Please check explations
- B. Place Holder

Correct Answer: AB

Solution:

student@node-1:~\$ kubectl run appl --image=lfccncf/arg-output --dry-run=client -o yaml > /opt/KD PD00101/pod1.yml student@node-1:~\$ vim /opt/KDPD00101/pod1.yml









```
pod/app1 created
student@node-1:~$ kubect1 get pods
                   READY
                           STATUS
                                                 RESTARTS
                           ContainerCreating
                   0/1
app1
                                                 0
                                                             58
                   1/1
                           Running
                                                 0
                                                             4m44
counter
                           Running
liveness-http
                                                 0
                   1/1
                                                             6h50
                   1/1
nginx-101
                           Running
                                                 0
                                                             6h51
nginx-configmap
                   1/1
                           Running
                                                 0
                                                             6m21
                                                 0
nginx-secret
                   1/1
                           Running
                                                             11m
poller
                   1/1
                           Running
                                                 0
                                                             6h51
student@node-1;~$
                   kubectl get pods
NAME
                   READY
                           STATUS
                                      RESTARTS
                                                  AGE
                           Running
                   1/1
                                                  269
app1
                                      0
                           Running
                   1/1
                                                  5m5s
counter
liveness-http
                   1/1
                           Running
                                      0
                                                  6h50m
                   1/1
nginx-101
                           Running
                                      0
                                                  6h51m
nginx-configmap
                   1/1
                           Running
                                                  6m42s
nginx-secret
                   1/1
                           Running
                                                  12m
                                      0
poller
                   1/1
                           Running
                                                  6h51m
student@node-1:~$ kubectl delete pod app1
pod "appl" deleted
student@node-1:~$ vim /opt/KDPD00101/pod1.yml
```

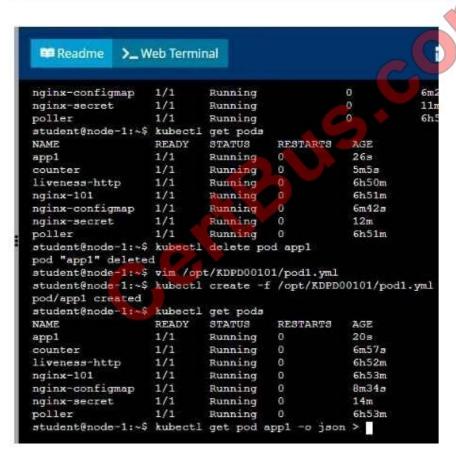






Exhibit:



Context

Your application\\'s namespace requires a specific service account to be used.

Task

Update the app-a deployment in the production namespace to run as the restricted service service account.



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The service account has already been created.

A. Please check explations

B. Place Holder

Correct Answer: AB

Solution:



QUESTION 5

Exhibit:

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Context It is always useful to look at the resources your applications are consuming in a cluster. Task From the pods running in namespace cpu-stress, write the name only of the pod that is consuming the most CPU to file /opt/KDOBG030l/pod.txt, which has already been created.

A. Please check explations

B. Place Holder

Correct Answer: AB

Solution:

```
THE LINUX FOUNDATION
 Readme
            >_ Web Terminal
student@node-1:~$ kubectl top pods -n cpu-stress
NAME
                 CPU (cores)
                              MEMORY (bytes)
max-1cad-98b9se
                 68m
                              6Mi
max-lcad-ab2d3s
                              6Mi
                 21m
max-lcad-kipb9a
                              6Mi
                      "max-load-98b9se" > /opt/kDOB00301/pod.txt
```

QUESTION 6

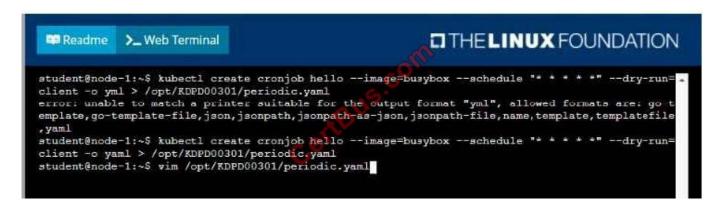
Exhibit: Context Developers occasionally need to submit pods that run periodically. Task Follow the steps below to create a pod that will start at a predetermined time and]which runs to completion only once each time it is started: Create a YAML formatted Kubernetes manifest /opt/KDPD00301/periodic.yaml that runs the following shell command: date in a single busybox container. The command should run every minute and must complete within 22 seconds or be terminated oy Kubernetes. The Cronjob namp and container name should both be hello Create the resource in the above manifest and verify that the job executes successfully at least once

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- A. Please check explations
- B. Place Holder

Correct Answer: AB







```
THE LINUX FOUNDATION
 Readme >_ Web Terminal
student@node-1:-$ kubectl create cronjob hello --image-busybox --schedule "* * * * * --dry-run"
client -o yml > /opt/KEPD00301/periodic.yaml
error: unable to match a printer suitable for the output format "yml", allowed formats are: go-t
emplate,go-template-file,json,jsonpath,jsonpath-as-json,jsonpath-file,name,template,templatefile
, yaml
student@node-1:~$ kubectl create cronjob hello --image=busybox --schedule "* * * * * --dry-run=
client -o yaml > /opt/KDPD00301/periodic.yaml
student@node-1:~$ vim /opt/KDPD00301/periodic.yaml
student@node-1:~$ kubectl create -f /opt/KDPD00301/periodic.yaml
cronjcb.batch/hello created
student@node-1:~$ kubectl get cronjob
NAME SCHEDULE SUSPEND ACTIVE
                                                  LAST SCHEDULE
                                                                      AGE
         +/1 + + + +
hello
                           False
                                                                      62
                                                  <none>
student@node-1:~$ [
```

Exhibit:





Context A project that you are working on has a requirement for persistent data to be available. Task To facilitate this, perform the following tasks: Create a file on node sk8s-node-0 at /opt/KDSP00101/data/index.html with the content Acct=Finance Create a PersistentVolume named task-pv-volume using hostPath and allocate 1Gi to it, specifying that the volume is at /opt/KDSP00101/data on the cluster\\'s node. The configuration should specify the access mode of ReadWriteOnce . It should define the StorageClass name exam for the PersistentVolume , which will be used to bind PersistentVolumeClaim requests to this PersistenetVolume. Create a PefsissentVolumeClaim named task-pv-claim that requests a volume of at least 100Mi and specifies an access mode of ReadWriteOnce Create a pod that uses the PersistentVolmeClaim as a volume with a label app: my-storage-app mounting the resulting volume to a mountPath /usr/share/nginx/html inside the pod



Ensure that you return to the base node (with hostname node-1) once you have completed your work on sk8s-node-0 @copy

A. Please check explations

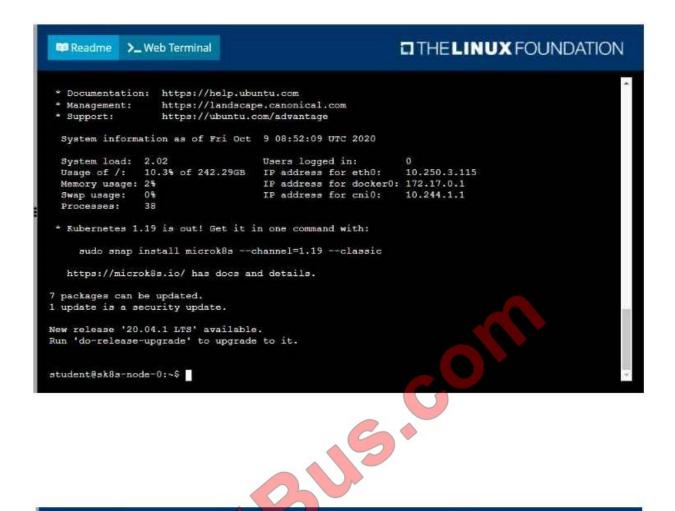
B. Place Holder

Correct Answer: AB











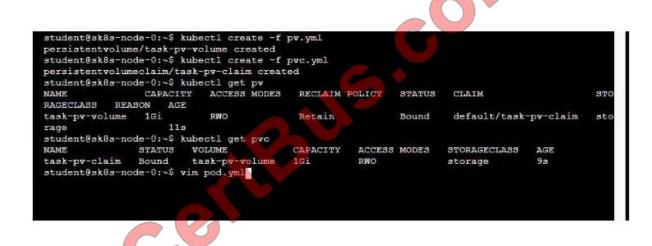
















```
student@sk8s-node-0:~$ kubectl create -f pod.yml
pod/mypod created
student@sk8s-node-0:~$ kubectl get
```

```
THE LINUX FOUNDATION
 Readme >_ Web Terminal
student@sk8s-node-0:~$ kubectl get pods
NAME
       READY STATUS
                                 RESTARTS
                                           AGE
mypod
       0/1
              ContainerCreating
student@sk8s-node-0:~$ kubectl get pods
       READY STATUS
NAME
                                 RESTARTS
                                           AGE
mypod
       0/1
              ContainerCreating
                                 0
student@sk8s-node-0:~$ kubectl get pods
       READY STATUS
                       RESTARTS
NAME
                                  AGE
       1/1
              Running
mypod
student@sk8s-node-0:~$ logout
Connection to 10.250.3.115 closed.
student@node-1:~$
```

Exhibit:





Task You have rolled out a new pod to your infrastructure and now you need to allow it to communicate with the web and storage pods but nothing else. Given the running pod kdsn00201 -newpod edit it to use a network policy that will allow it to send and receive traffic only to and from the web and storage pods.

All work on this item should be conducted in the kdsh00201 namespace.

All required NetworkPolicy resources are already created and ready for use as appropriate. You should not create, modify or delete any network policies whilst completing this item.

- A. Please check explations
- B. Place Holder

Correct Answer: AB

Pending

QUESTION 9

Exhibit:



Task You are required to create a pod that requests a certain amount of CPU and memory, so it gets scheduled to-a node that has those resources available. ?Create a pod named nginx-resources in the pod-resources namespace that requests a minimum of 200m CPU and 1Gi memory for its container The pod should use the nginx image The pod-resources namespace has already been created

A. Please check explations

B. Place Holder

Correct Answer: AB









```
student@node-1:~$ kubect1 run nginx-resources -n pod-resources --image=nginx --dry-run=client -o-yaml > nginx_resources.yml
student@node-1:~$ vim nginx_resources.yml
student@node-1:~$ kubect1 create -g nginx_resources.yml
Error: unknown shorthand flag: 'g' in -g
See 'kubect1 create --help' for usage.
student@node-1:~$ kubect1 create -f nginx_resources.yml
pod/nginx-resources created
student@node-1:~$ kubect1 get pods -n pod-re
```

```
## Readme >_Web Terminal

## THE LINUX FOUNDATION

student@node-1:~$ kubectl get pods -n pod-resources

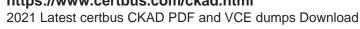
NAME READY STATUS RESTARTS AGE

nginx-resources 1/1 Running 0 8s

student@node-1:~$ []
```

Exhibit:







Context A container within the poller pod is hard-coded to connect the nginxsvc service on port 90. As this port changes to 5050 an additional container needs to be added to the poller pod which adapts the container to connect to this new port. This should be realized as an ambassador container within the pod. Task Update the nginxsvc service to serve on port 5050. Add an HAproxy container named haproxy bound to port 90 to the poller pod and deploy the enhanced pod. Use the image haproxy and inject the configuration located at /opt/KDMC00101/haproxy.cfg, with a ConfigMap named haproxy-config, mounted into the container so that haproxy.cfg is available at /usr/local/ etc/haproxy/haproxy.cfg. Ensure that you update the args of the poller container to connect to localhost instead of nginxsvc so that the ndpoint in poller\\'s

args. The spec file used to create the initial poller pod is available in /opt/KDMC00101/poller.yam
A. Please check explations
B. Place Holder
Correct Answer: AB
Solution:
apiVersion: apps/v1
kind: Deployment
metadata:
name: my-nginx
spec:
selector:
matchLabels:
run: my-nginx
replicas: 2
template:
metadata:



labels:

run: my-nginx

spec:

containers:

-name: my-nginx image: nginx ports:

-containerPort: 90 This makes it accessible from any node in your cluster. Check the nodes the Pod is running on: kubectl apply -f ./run-my-nginx.yaml kubectl get pods -l run=my-nginx -o wide NAME READY STATUS RESTARTS AGE IP NODE my-nginx-3800858182-jr4a2 1/1 Running 0 13s 10.244.3.4 kubernetes-minion-905m my-nginx3800858182-kna2y 1/1 Running 0 13s 10.244.2.5 kubernetes-minion-ljyd Check your pods\\' IPs: kubectl get pods -l run=my-nginx -o yaml | grep podIP podIP: 10.244.3.4 podIP: 10.244.2.5

QUESTION 11

Exhibit:



Context A web application requires a specific version of redis to be used as a cache. Task Create a pod with the following characteristics, and leave it running when complete: The pod must run in the web namespace. The namespace has already been created The name of the pod should be cache Use the Ifccncf/redis image with the 3.2 tag Expose port 6379

A. Please check explations

B. Place Holder

Correct Answer: AB

```
THE LINUX FOUNDATION
            >_ Web Terminal
 Readme
student@node-1:~$ kubect1 run cache --image=lfccncf/redis:3.2 --port=6379 -n web
pod/cache created
student@node-1:~$ kubectl get pods -n web
                                   RESTARTS
                                             AGE
NAME
       READY
               STATUS
       0/1
               ContainerCreating
                                              68
student@node-1:~$ kubectl get pods
                                  -n web
       READY
               STATUS
                         RESTARTS
                                    AGE
               Running
       1/1
student@node-1:~$
```

QUESTION 12

Exhibit:



Context

A pod is running on the cluster but it is not responding.

Task

The desired behavior is to have Kubemetes restart the pod when an endpoint returns an HTTP 500 on the /healthz endpoint. The service, probe-pod, should never send traffic to the pod while it is failing.

Please complete the following:

The application has an endpoint, /started, that will indicate if it can accept traffic by returning an HTTP 200. If the endpoint returns an HTTP 500, the application has not yet finished initialization.

The application has another endpoint /healthz that will indicate if the application is still working as expected by returning an HTTP 200. If the endpoint returns an HTTP 500 the application is no longer responsive.

Configure the probe-pod pod provided to use these endpoints.



The probes should use port 8080.

A. Please check explations

B. Place Holder

Correct Answer: AB

Solution: In the configuration file, you can see that the Pod has a single Container. The periodSeconds field specifies that the kubelet should perform a liveness probe every 5 seconds. The initialDelaySeconds field tells the kubelet that it should wait 5 seconds before performing the first probe. To perform a probe, the kubelet executes the command cat /tmp/healthy in the target container. If the command succeeds, it returns 0, and the kubelet considers the container to be alive and healthy. If the command returns a nonzero value, the kubelet kills the container and restarts it. When the container starts, it executes this command: /bin/sh -c "touch /tmp/healthy; sleep 30; rm -rf /tmp/healthy; sleep 600" For the first 30 seconds of the container\\'s life, there is a /tmp/healthy file. So during the first 30 seconds, the command cat /tmp/healthy returns a success code. After 30 seconds, cat /tmp/healthy returns a failure code. Create the Pod: kubectl apply -f https://k8s.io/examples/pods/probe/exec-liveness.yaml Within 30 seconds, view the Pod events: kubectl describe pod liveness-exec The output indicates that no liveness probes have failed yet: FirstSeen LastSeen Count From SubobjectPath Type Reason Message ------ 24s 24s 1 {defaultscheduler } Normal Scheduled Successfully assigned liveness- exec to worker0 23s 23s 1 {kubelet worker0} spec.containers{liveness} Normal Pulling pulling image "k8s.gcr.io/busybox" 23s 23s 1 {kubelet worker0} spec.containers{liveness} Normal Pulled Successfully pulled image "k8s.gcr.io/busybox" 23s 23s 1 {kubelet worker0} spec.containers{liveness} Normal Created Created container with docker id 86849c15382e; Security:[seccomp=unconfined] 23s 23s 1 {kubelet worker0} spec.containers{liveness} Normal Started Started container with docker id 86849c15382e After 35 seconds, view the Pod events again: kubectl describe pod liveness-exec At the bottom of the output, there are messages indicating that the liveness probes have failed, and the containers have been killed and recreated. FirstSeen LastSeen Count From SubobjectPath Type Reason Message ------------- 37s 37s 1 {default-scheduler } Normal Scheduled Successfully assigned liveness- exec to worker0 36s 36s 1 {kubelet worker0} spec.containers{liveness} Normal Pulling pulling image "k8s.gcr.io/busybox" 36s 36s 1 {kubelet worker0} spec.containers{liveness} Normal Pulled Successfully pulled image "k8s.gcr.io/busybox" 36s 36s 1 {kubelet worker0} spec.containers{liveness} Normal Created Created container with docker id 86849c15382e; Security:[seccomp=unconfined] 36s 36s 1 {kubelet worker0} spec.containers{liveness} Normal Started Started container with docker id 86849c15382e 2s 2s 1 {kubelet worker0} spec.containers{liveness} Warning Unhealthy Liveness probe failed: cat: can\\'t open \\'/tmp/healthy\\': No such file or directory Wait another 30 seconds, and verify that the container has been restarted: kubectl get pod liveness-exec The output shows that RESTARTS has been incremented: NAME READY STATUS RESTARTS AGE liveness-exec 1/1 Running 1 1m



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```
apiVersion: v1
kind: Pod
metadata:
                               13.com
 labels
   test: liveness
 name: liveness-exec
spec:
 containers:
 - name: liveness
   image: k8s.gcr.io/busybox
   args:
   - /bin/sh
   - -c
   - touch /tmp/healthy; sleep 30; rm -rf /tmp/healthy; sleep 600
   livenessProbe:
     exec:
       command:
       - cat
       - /tmp/healthy
     initialDelaySeconds: 5
     periodSeconds: 5
```

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