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The second format is a web-based practice exam which offers a flexible and accessible option for students trying to assess and improve their preparation for the Linux Foundation Certification Exams. The CKAD web-based practice test can be accessed online through browsers like Firefox, Microsoft Edge, Google Chrome, and Safari. Customers need a stable internet connection in order to access web-based formats easily without facing issues.

Linux Foundation CKAD certification exam is an online, proctored exam that can be taken from anywhere in the world. CKAD exam consists of a set of performance-based tasks that are designed to test the candidate's ability to use Kubernetes to deploy, manage and troubleshoot containerized applications. CKAD exam is timed and candidates have 2 hours to complete the exam. To pass the exam, candidates must score 66% or higher.

Linux Foundation CKAD Exam is an excellent opportunity for developers to demonstrate their Kubernetes skills and gain recognition for their expertise. Whether you are a seasoned Kubernetes professional or just starting out, this certification can help you take your career to the next level and open up new opportunities in the rapidly evolving world of cloud-native development.

Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q84-Q89):

NEW QUESTION #84

You are running a web application on Kubernetes, and you need to schedule a daily backup of your application's dat a. The backup

process involves running a script that archives the database and uploads it to a remote storage service. Explain how you would implement this using a CronJ0b in Kubernetes. Provide a sample YAML configuration for the Cronjob.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step):

- 1. Create a Container Image:
- Create a Dockerfile that packages the backup script and any necessary dependencies into a container image-
- $\mbox{\sc Build}$ tne image and push it to a container registry (e.g., Docker Hub).

dockefflle

FROM ubuntu:latest

Install necessary packages

RUN apt-get update && apt-get install -y zip

Copy the backup script to the container

COPY backup.sh 'backup.sh

Set entrypoint to the backup script

ENTRYPOINT ["/backup.sh"]

- 2. Create the CronJob YAML:
- Define the 'cronJob' resource in a YAML file. Specify the schedule, the container image, and the command to run.

3. Apply the CronJob: - Apply the YAML file to your Kubernetes cluster using 'kubectl apply -f cronjob.yamr 4. Verification: - Use 'kubectl get cronjobs' to check if the CronJob was successfully created- - Check the Kubernetes logs for the CronJob to ensure it's running as expected.

NEW QUESTION #85

You are tasked with deploying a stateful application, a distributed database, that requires persistent storage and consistent ordering of pods. The application's pods need to communicate With each other using a specific port (5432). How would you configure a StatefulSet to achieve this?

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step):

1. Create the StatefulSet YAML:

```
apiversion: apps/vl
kind: StatefulSet
metadata:
  name: my-database
spec:
  serviceName: "my-database"
  replicas: 3
  selector:
    matchLabels:
      app: my-database
        app: my-database MPS COM
  templates
  metadata ATION
      labels:
    spec:
      containers
      - name: database
         image: postgres:14.2
        ports:
         - containerPort: 5432
        volumeMounts:
         - name: data
           mountPath: /var/lib/postgresql/data
      volumes:
      - name: data
        persistentVolumeClaim:
           claimName: my-database-pvc
2. Create a PersistentVolumeClaim (PVC):
apiVersion: v1
kind: PersistentVolumeClaim
metadata:
 name: my-database-py6
 accessModes:
   - ReadWriteOnce
  resources
   requests:
   storage GiNUX
```

3. Apply the StatefulSet and PVC: bash kubectl apply -f statefulset.yaml kubectl apply -f pvc.yaml 4. Check the StatefulSet and Pods: bash kubectl get statefulsets my-database kubectl get pods -l app=my-database - StatefulSet This defines the desired state for the database pods, ensuring tneir order and persistent storage. - serviceName: This field defines the service name used to access the database instances. - replicas: Defines the desired number of database instances (3 in this example). - selector: Matches pods with the "app: my-database" label. - template: Defines the pod template to use for each instance. - containers: Contains the database container definition. - ports: Exposes the database's internal port (5432) to the outside world. - volumeMounts: Mounts the persistent volume claim to the container's storage directory. - volumes: Defines the volume to use, in this case, a persistent volume claim - persistentVolumeClaim: Links the StatefulSet to the PVC - PVC (my-database-pvc): Requests a persistent volume of 1 Gi for each database pod. This ensures data persistence between restarts. - accessM0des: ReadWriteOnce: Allows only one pod to access the volume at a time. - resources-requests-storage: Specifies the storage request for each PVC - This setup ensures that each database pod: - Has a unique name based on its ordinal position within the StatefulSet - Has persistent storage using the PVC. - Can communicate with other pods through the defined service. - Maintains consistent ordering, essential for distributed database functionality

NEW QUESTION #86

You have a multi-container Pod that runs a web server (Nginx) and a database (MySQL) container. The database container requires data to be initialized before the web server container can Stan. How would you configure the Pod to ensure the database container is initialized before the web server container starts?

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step):

- 1. Use initContainers:
- Define one or more 'initContainers' within the Pod'S 'spec.template.spec' section.
- The 'initContainerS will run before any other container in the Pod.
- In this case, you would create an 'initcontainer' for the MySQL database.
- 2. Configure the initContainer:
- The 'initcontainer' should have the following attributes:
- Name: A unique name for the container.
- Image: The Docker image containing the necessary tools to initialize the database.
- Command: The command to execute for database initialization.
- Liveness Probe: Optional, but recommended to check if the database initialization process is successful.
- 3. Sequence the containers:
- Ensure the 'initContainers' are listed before the main containers in the Pod's 'spec-template-spec-containers' section.
- 4. Exam le YAML:



- The 'mysql-init' 'initcontainer' will run before the 'nginx' and 'mysql' containers- - The 'command' in the 'injtContainer' Will create a database named within the MySQL container. - The livenessprobe' will ensure that the database iS reachable on pon 3306 atter the initialization process completes. Note: This solution assumes that the 'mysqr image already includes the necessary database initialization tools. You might need to use a custom image with these tools if the default image doesn't provide them.

NEW QUESTION #87

Context



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 lfccncf/nginx:1.13.7
- * Set an environment variable of NGINX PORT=8080 and also expose that port for the container above

Answer:

Explanation:

Solution:



```
THE LINUX FOUNDATION
Readme
          >_ Web Terminal
apiVersion: apps/v1
kind: Deployment
creationTimestamp:
           inestaithraindumps.com
 app: api
 namespace: kdpd00201
    app: api
     app: api
    - image: lfccncf/nginx:1.13.7-alpine
      name: nginx
"nginx_deployment.yml" 25L, 421C
                                                                4,1
                                                                           All
Readme >_ Web Terminal
                                 THE LINUX FOUNDATION
```



```
THE LINUX FOUNDATION
 Readme
                >_ Web Terminal
student@node-1:~$ kubectl create deployment api --image=lfccncf/nginx:1.13.7-alpine --replicas=4
-n kdpd00201 --dry-run=client -o yaml > nginx_deployment.yml
student@node-1:~$ vim nginx_deployment.yml
student@node-1:~$ kubectl create nginx_deployment.yml
  cror: must specify one of -f and -k
error: unknown command "nginx_deployment.yml"
See 'kubectl create -h' for help and examples
error: error validating "nginx_deployment.yml"; error validating data: ValidationError(Deployment.spec.template.spec): unknown field "env" in io.k8s.api.core.v1.PodSpec; if you choose to ignore these errors, turn validation off with --validate=false
e these errors, turn validation off with -
student@node-1:~$ vim nginx_deployment.yml
student@node-1:~$ kubectl create -f ngink_deployment.yml
deployment.apps/api created
student@node-1:~$ kubectl get pods n kdpd00201
NAME READY STATUS RESTAR
                                                   RESTARTS
api-745677f7dc-7hnvm
                                                                13s
api-745677f7dc-9q5vp
                             1/1
                                                   0
                                                                135
                                      Running
api-745677f7dc-fd4gk
                            1/1 0
                                       Running
                                                   0
                                                                 138
api-745677f7dc-mbnpc
                            1/1
                                      Running
                                                   0
                                                                 133
student@node-1:~$
```

NEW QUESTION #88



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

Answer:

Explanation:
See the solution below.
Explanation
Solution:
apiVersion: v1
kind: Pod
metadata:

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

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 non-zero 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 {default-scheduler } 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

NEW QUESTION #89

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There is a ton of Linux Foundation Certified Kubernetes Application Developer Exam (CKAD) prep material available on the internet. But the main thing to notice is their validity and reliability. Many applicants remain unsuccessful in locating the right Linux Foundation Certified Kubernetes Application Developer Exam (CKAD) practice test and lose their time and money.

CKAD Examcollection Questions Answers: https://www.itbraindumps.com/CKAD_exam.html

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