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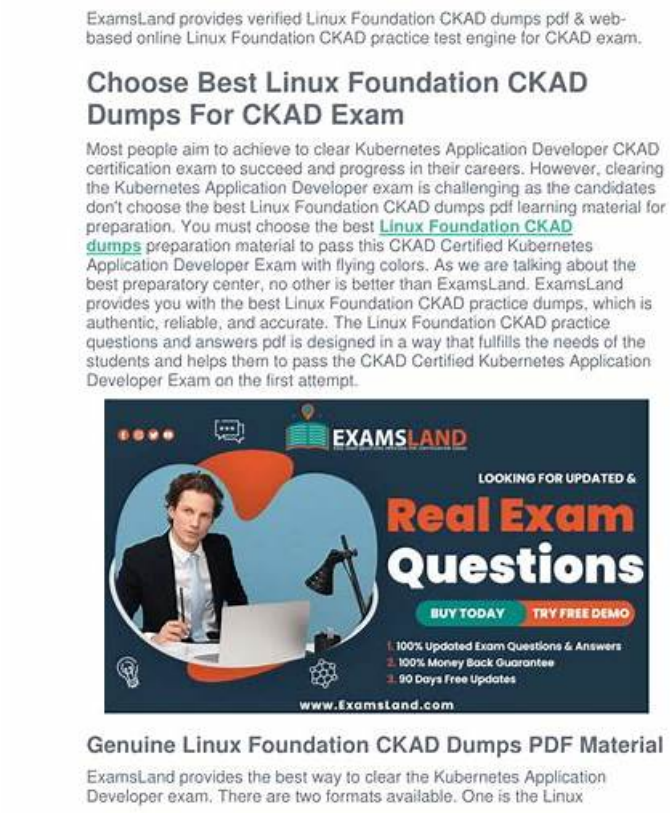

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Linux Foundation CKAD Certification Exam is a valuable credential for professionals in the application development industry. CKAD exam tests the practical skills of candidates in developing and deploying applications on Kubernetes clusters, and the certification is recognized globally by top companies in the IT industry. Candidates can prepare for the exam by taking the Linux Foundation CKAD exam preparation course, which covers all the topics and skills required to pass the exam. Linux Foundation Certified Kubernetes Application Developer Exam certification provides career advancement opportunities and is valid for two years, with the option to renew it by passing a renewal exam or earning CEUs.

Linux Foundation Certified Kubernetes Application Developer (CKAD) exam is a certification offered by the Linux Foundation. It is designed to test the skills and knowledge of individuals who are interested in working with Kubernetes to deploy, manage, and scale containerized applications. The CKAD Certification is recognized as a valuable credential in the tech industry, and it is often required by employers who are looking for skilled Kubernetes developers.

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Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q165-Q170):

NEW QUESTION # 165
Context

Context
As a Kubernetes application developer you will often find yourself needing to update a running application.
Task
Please complete the following:
* Update the app deployment in the kdpd00202 namespace with a maxSurge of 5% and a maxUnavailable of 2%
* Perform a rolling update of the web1 deployment, changing the lfccncf/ngmx image version to 1.13
* Roll back the app deployment to the previous version

Answer:

Explanation:
Solution:

NEW QUESTION # 166
You are building a web application with two microservices: a frontend service ('frontend') and a backend service (' backend'). The frontend service requires access to the backend service, which iS exposed on port 8080 within the Kubernetes cluster. How would you configure an Ingress resource to direct traffic to the correct service based on the hostname, ensuring that the frontend service

can access the backend service internally without exposing the backend service to the public internet?

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Create a Service tor the Backend Service:
- Define a Service for the 'backend' service, exposing it internally within the Kubernetes cluster on port 8080.

2. Configure the Ingress Resource: - Create an Ingress resource that directs traffic to the frontend service based on the hostname, allowing the frontend service to access the backend service internally without exposing it to the public internet - Define the Ingress rule to map the hostname 'frontend-example.com' to the 'frontend' service on port 80. - Configure an Ingress rule to enable access to the 'backend' service on port 8080 using the hostname 'internal-backend-example-com' within the Kubernetes cluster.

3. Create a Secret for the Frontend TLS Certificate: - Create a Secret in Kubernetes to store the TLS certificate and key for the frontend service.

4. Apply the Resources: - Apply the Service, Ingress, and Secret YAML files to your Kubernetes cluster using 'kubectl apply -f 5. Access the Frontend Service: - Access the frontend service using the hostname 'frontend-example.com'. The frontend service can now access the backend service internally using the hostname 'internal-backend-example-com' without exposing the backend service to the public internet.]

NEW QUESTION # 167
Context

Context
A pod is running on the cluster but it is not responding.
Task
The desired behavior is to have Kubernetes 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:
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 # 168
You are deploying a web application with a separate database container. You need to implement a proxy container that handles requests from the web server and forwards them to the database container. The proxy container should also log all incoming requests to a dedicated log file within the Pod.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Define the Pod YAML: Create a Pod YAML file that includes the web server, database, and proxy containers.

```yaml
apiVersion: v1
kind: Pod
metadata:
  name: my-app-pod
spec:
  containers:
  - name: web-server
    image: web-server-image:latest
    ports:
    - containerPort: 80
  - name: database
    image: database-image:latest
    ports:
    - containerPort: 5432
  - name: proxy
    image: proxy-image:latest
    ports:
    - containerPort: 8080
    volumeMounts:
    - name: proxy-log
      mountPath: /var/log/proxy
  volumes:
  - name: proxy-log
    emptyDir: {}
```

2. Configure the Proxy Container: Choose a suitable proxy container image (e.g., Nginx, HAProxy) and configure it to forward requests from port 8080 to the database container on port 5432 3. Implement Logging: Configure the proxy container to log incoming requests to the '/var/log/proxy' directory. You can use the proxy container's built- in logging facilities or install a separate logging agent within the container. 4. Deploy the Pod: Apply the Pod YAML using ' kubectl apply -f my-app-pod_yaml' 5. Verify Functionality: Access the web server container on port 80 and ensure requests are forwarded to the database container Check the log file ' Ivar/log/proxys to verify that requests are being logged. Note: This solution demonstrates using a proxy container to manage communication between different containers within a Pod. You can customize the proxy's configuration based on your specific application's requirements.,

NEW QUESTION # 169

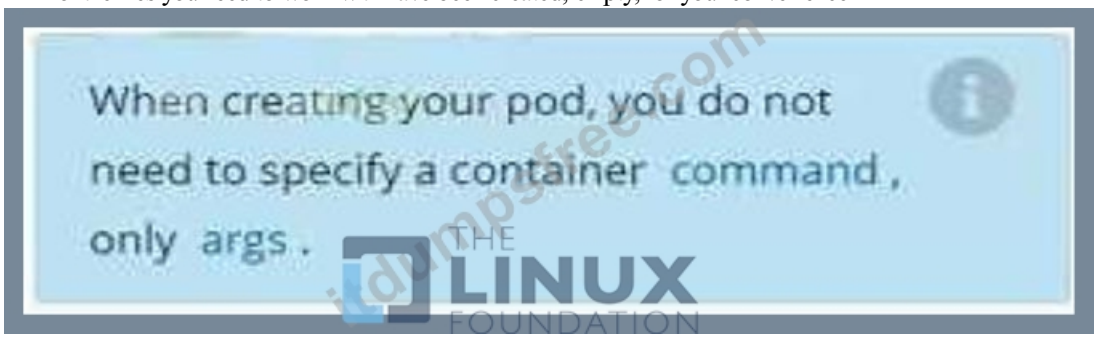
Context

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:

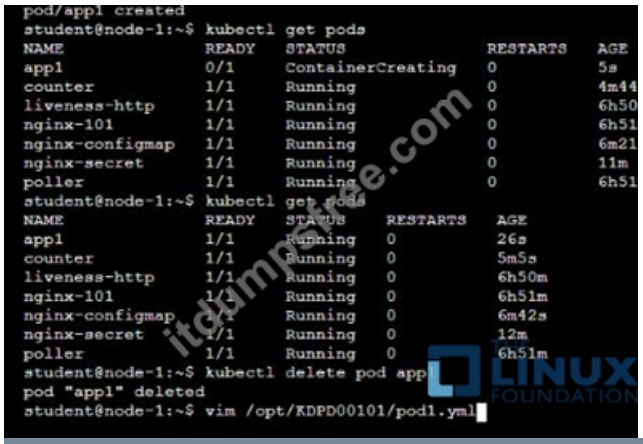
* Create a YAML formatted pod manifest /opt/KDPD00101/podl.yml to create a pod named app1 that runs a container named app1cont using image lfccncf/arg-output with these command line arguments: -lines 56 -F
* Create the pod with the kubect1 command using the YAML file created in the previous step
* When 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

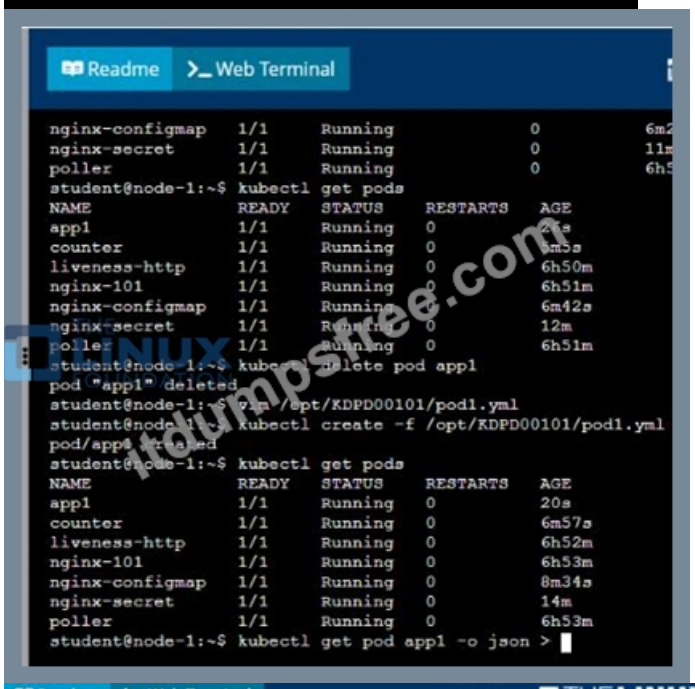


Answer:

Explanation:

Solution:





NEW QUESTION # 170

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