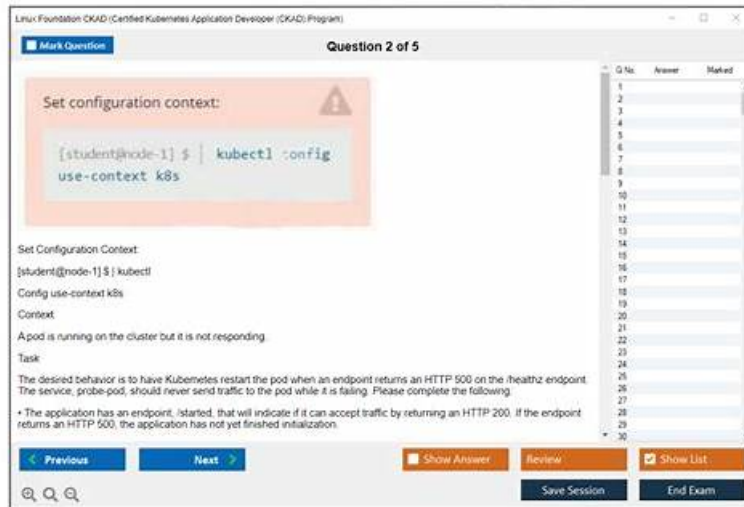


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## Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q55-Q60):

### NEW QUESTION # 55

Refer to Exhibit.

Task:

- 1) Create a secret named app-secret in the default namespace containing the following single key-value pair:  
Key3: value1
- 2) Create a Pod named nginx secret in the default namespace. Specify a single container using the nginx:stable image. Add an environment variable named BEST\_VARIABLE consuming the value of the secret key3.

**Answer:**

Explanation:

Solution:

□

### NEW QUESTION # 56

□ 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 a deployment in namespace `kdsn00101` a service that accomplishes the following:

- \* Exposes the service on TCP port 8080

- \* is mapped to the pods defined by the specification of `kdsn00101-deployment`

- \* Is of type `NodePort`

- \* Has a name of `cherry`

**Answer:**

Explanation:

See the solution below.

Explanation

Solution:

□

### NEW QUESTION # 57

You have a Deployment named `'my-app-deployment'` that runs 3 replicas of a Spring Boot application. This application needs to access a PostgreSQL database hosted on your Kubernetes cluster. You need to create a Custom Resource Definition (CRD) to define a new resource called `'Database'` to represent the PostgreSQL database instances within your cluster. This CRD should include fields for specifying the database name, username, password, and the host where the database is deployed. Further, you need to configure the `'my-app-deployment'` to use the `'Database'` resource to connect to the PostgreSQL instance dynamically.

**Answer:**

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Define the CRD:

- Create a YAML file named `'database.crd.yaml'` to define the `'Database'` resource:

- 2. the CRD: - Apply the `'database.crd.yaml'` using `'kubectl apply -f database.crd.yaml'` 3. Create A Database Instance: - Create a YAML file `'database.yaml'` to define a database instance

- 4. Apply the Database Instance: - Apply the `'database.yaml'` using `'kubectl apply -f database.yaml'` 5. Update the Deployment - Update the `'my-app-deployment.yaml'` to use the `'Database'` resource:

- 6. Apply the Updated Deployment: - Apply the updated `'my-app-deployment.yaml'` using `'kubectl apply -f my-app-deployment.yaml'` 7. Verify the Configuration: - Use `'kubectl get databases'` to check the database instance. - Use `'kubectl describe pod -l app=my-app'` to verify that the pods are using the values from the `'Database'` resource for connecting to the PostgreSQL database. This approach demonstrates how to utilize CRDs to define custom resources in Kubernetes and how to connect applications dynamically to these resources. The CRD ensures proper definition of the database resource, while the deployment utilizes the `'fieldRef'` mechanism to access and retrieve database connection details directly from the CRD, enabling dynamic configuration and simplification of application setup.,

### NEW QUESTION # 58

□ Context

You are tasked to create a ConfigMap and consume the ConfigMap in a pod using a volume mount.

Task

Please complete the following:

\* Create a ConfigMap named another-config containing the key/value pair: key4/value3

\* start a pod named nginx-configmap containing a single container using the nginx image, and mount the key you just created into the pod under directory /also/a/path See the solution below.

**Answer:**

Explanation:

Explanation

Solution:

```
□  
□  
□
```

## NEW QUESTION # 59

You must connect to the correct host . Failure to do so may result in a zero score.

```
[candidate@base] $ ssh ckad00034c
```

Task

A Deployment named content-marlin-deployment , running in namespace content-marlin is exposed via Ingress content-marlin-ingress .

The manifest files for the Deployment, Service and Ingress can be found at /home/candidate/content-marlin/.

The Deployment is supposed to be reachable at

http://content-marlin.local/content-marlin , but requesting this URL is currently returning an error.

**Answer:**

Explanation:

See the Explanation below for complete solution.

Explanation:

```
ssh ckad00034c
```

You're debugging an Ingress # Service # Deployment chain. The fastest way is:

- \* reproduce the error with the right Host header
- \* check Ingress rules (host/path/backend)
- \* check Service (selector/port/targetPort)
- \* check Endpoints (do we have ready pods?)
- \* fix the manifest(s) under /home/candidate/content-marlin/
- \* apply + re-test

Below are the exact commands + the most common fixes for this exact symptom

1) Reproduce the failing request correctly

Even if DNS isn't set up, you can test with a Host header:

```
curl -i -H "Host: content-marlin.local"
```

```
http://127.0.0.1/content-marlin
```

If your ingress controller is not on localhost, find the NodePort/LoadBalancer IP. In these labs it's often localhost via a local proxy, but if needed:

```
kubectl get svc -A | egrep -i 'ingress|nginx'
```

```
kubectl get nodes -o wide
```

(But start with the localhost curl above.)

2) Inspect the provided manifests (this is what you must edit)

```
cd /home/candidate/content-marlin/
```

```
ls -l
```

```
sed -n '1,200p' *.yaml
```

Also view what's currently live in the cluster:

```
kubectl -n content-marlin get deploy,svc,ingress
```

```
kubectl -n content-marlin describe ingress content-marlin-ingress
```

```
kubectl -n content-marlin get ingress content-marlin-ingress -o yaml
```

What to look for in the Ingress:

- \* spec.rules.host should be content-marlin.local
- \* spec.rules.http.paths[].path should match /content-marlin
- \* Backend service name must be your service
- \* Backend service port must match the service port (name or number)

\* pathType should be Prefix (usually safest)

3) Validate Service # Pod wiring (most common real cause)

3.1 Check service selector and ports

```
kubectl -n content-marlin get svc -o wide
```

```
kubectl -n content-marlin describe svc content-marlin-deployment 2>/dev/null || true kubectl -n content-marlin describe svc
```

 Identify the service that the Ingress points to (from describe ingress).

Check if the Service selector matches pod labels:

```
kubectl -n content-marlin get pods --show-labels
```

```
kubectl -n content-marlin get svc <SERVICE_NAME> -o jsonpath='{.spec.selector}'
```

3.2 Check endpoints (this tells you instantly if traffic can reach pods) `kubectl -n content-marlin get endpoints` `kubectl -n content-marlin get endpoints <SERVICE_NAME> -o wide`

\* If ENDPOINTS is empty # Service selector doesn't match Pods OR Pods aren't Ready.

3.3 If endpoints empty, check pod readiness and labels

```
kubectl -n content-marlin get pods -o wide
```

```
kubectl -n content-marlin describe pod <pod-name>
```

4) Apply the most likely fix patterns

Fix pattern A: Ingress path needs rewrite

If your app serves / but you route /content-marlin, you often need rewrite.

Edit content-marlin-ingress manifest (in /home/candidate/content-marlin/) to include:

\* path: /content-marlin

\* pathType: Prefix

\* annotation: rewrite to / (common for nginx ingress)

Example (typical nginx-ingress):

metadata:

annotations:

```
nginx.ingress.kubernetes.io/rewrite-target: /
```

spec:

rules:

```
- host: content-marlin.local
```

http:

paths:

```
- path: /content-marlin
```

pathType: Prefix

backend:

service:

```
name: <SERVICE_NAME>
```

port:

```
number: 80
```

If your ingress controller is not nginx, rewrite annotation may differ. But in CKAD labs, it's very often nginx.

Fix pattern B: Ingress points to wrong Service port

If the Ingress backend says port 80 but your Service exposes 8080 (or uses a named port), align them:

\* Either change Ingress backend port.number

\* Or change Service spec.ports[].port / targetPort

Fix pattern C: Service selector mismatch (endpoints empty)

If pods have label app=content-marlin but service selector is app=content-marlin-deployment (or vice versa), fix the Service selector to match pod labels.

Service should have:

spec:

selector:

```
app: <label-that-actually-exists-on-pods>
```

Fix pattern D: Service targetPort wrong

If container listens on 8080 but service targetPort is 80, fix it:

spec:

ports:

```
- port: 80
```

```
targetPort: 8080
```

5) Apply the corrected manifests

After editing the YAMLS under /home/candidate/content-marlin/:

```
kubectl apply -f /home/candidate/content-marlin/
```

Wait for readiness:

```
kubectl -n content-marlin rollout status deploy content-marlin-deployment kubectl -n content-marlin get endpoints kubectl -n
```

```
content-marlin describe ingress content-marlin-ingress
```

6) Re-test the URL

```
curl -i -H "Host: content-marlin.local"
```

```
http://127.0.0.1/content-marlin
```

If you still get errors, also check ingress controller logs/events quickly:

```
kubectl -n content-marlin get events --sort-by=.lastTimestamp | tail -n 30 kubectl get pods -A | egrep -i 'ingress|nginx'
```

 The fastest way for you to finish in 1 shot Run these and paste the output (I'll tell you exactly which line to change and what to change it to):

```
kubectl -n content-marlin describe ingress content-marlin-ingress
```

```
kubectl -n content-marlin get svc -o wide
```

```
kubectl -n content-marlin get endpoints -o wide
```

```
kubectl -n content-marlin get pods --show-labels
```

```
sed -n '1,200p' /home/candidate/content-marlin/*.yaml
```

But even without pasting, if you follow steps 2-4 above, you'll find the broken link (Ingress rule, Service port, selector, or rewrite) and fix it cleanly.

## NEW QUESTION # 60

.....

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