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The CKAD Exam is specifically designed for developers who are already familiar with Kubernetes and have experience in developing and deploying applications on Kubernetes clusters. CKAD exam is designed to test the practical skills of developers in designing, deploying, and managing Kubernetes-based applications, and it requires candidates to demonstrate their proficiency in using Kubernetes APIs, tools, and resources.

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## Exam Topics for CNCF Certified Kubernetes Application Developer

Our **CNCF CKAD Dumps** covers the following objectives of the CNCF Certified Kubernetes Application Developer Exam.

- Pod Design 20%
- Services & Networking 13%
- State Persistence 8%
- Multi-Container Pods 10%

## Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q115-Q120):

### NEW QUESTION # 115

You are building a microservices architecture for a web application. One of your services handles user authentication. To ensure the service remains available even if one of the pods fails, you need to implement a high-availability solution. Design a deployment strategy for the authentication service that utilizes Kubernetes features to achieve high availability and fault tolerance.

#### Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Deploy as a StatefulSet:

- Use a StatefulSet to deploy your authentication service. StatefulSets maintain persistent storage and unique identities for each pod, ensuring that data is preserved and the service can recover from failures without losing state.

```
apiVersion: apps/v1
kind: StatefulSet
metadata:
  name: auth-service-statefulset
spec:
  serviceName: auth-service
  replicas: 3
  selector:
    matchLabels:
      app: auth-service
  template:
    metadata:
      labels:
        app: auth-service
    spec:
      containers:
        - name: auth-service
          image: your-image-repo:latest
          ports:
            - containerPort: 8080
      volumeClaimTemplates:
        - metadata:
            name: auth-data
          spec:
            accessModes: ["ReadWriteOnce"]
            resources:
              requests:
                storage: 1Gi
```

2. I-Use Persistent Volumes: - Provision persistent volumes for each pod in the StatefulSet to store sensitive data like user credentials or session information. This ensures that the data persists even if a pod is restarted or replaced. 3. Configure a Service with Load Balancing: - Create a Service that uses a load balancer (like a Kubernetes Ingress or external load balancer) to distribute traffic across the replicas of your authentication service. This ensures that requests are evenly distributed, even if some pods are down.

```

apiVersion: v1
kind: Service
metadata:
  name: auth-service
spec:
  type: LoadBalancer
  selector:
    app: auth-service
  ports:
    - protocol: TCP
      port: 80
      targetPort: 8080

```

4. Implement Health Checks: - Set up liveness and readiness probes for the authentication service. Liveness probes ensure that unhealthy pods are restarted, while readiness probes ensure that only healthy pods receive traffic. 5. Enable TLS/SSL: - Secure your authentication service with TLS/SSL to protect sensitive user data during communication. You can use certificates issued by a certificate authority (CA) or self-signed certificates for development environments. 6. Consider a Distributed Cache: - For improved performance and scalability, consider using a distributed cache like Redis or Memcached to store frequently accessed data, such as user authentication tokens. This can reduce the load on the authentication service and improve user response times.

### NEW QUESTION # 116

You are managing a Kubernetes cluster running a highly-available application that uses a custom resource called 'Orders'. The 'orders' resource is created and managed by a custom controller that ensures the order processing workflow runs flawlessly. However, the 'order' resource's validation rules have changed, requiring a new schema to be applied. How can you ensure that the existing 'Order' resources conform to the new schema without disrupting the application's functionality?

#### Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1). Define the New Schema:

- Create a new CustomResourceDefinition (CRD) file with the updated schema for the 'Order' resource.
- Ensure that the CRD's 'spec-validation.openAPIV3Schema' field includes all the new validation rules.

```

apiVersion: apiextensions.k8s.io/v1
kind: CustomResourceDefinition
metadata:
  name: orders.example.com
spec:
  group: example.com
  version: v1
  names:
    kind: Order
    plural: orders
    scope: Namespaced
  validation:
    openAPIV3Schema:
      type: object
      properties:
        # Updated validation rules for the 'Order' resource
        ...

```

2. Update the CRD: - Apply the new CRD definition using 'kubectl apply -f order-crd.yaml'. 3. Create a Webhook for Validation: - Define a webhook in your Kubernetes cluster that will be responsible for validating the 'order' resources against the new schema. - Configure the webhook to be invoked during resource creation and update operations.

```

apiVersion: admissionregistration.k8s.io/v1
kind: ValidatingWebhookConfiguration
metadata:
  name: order-validation-webhook
webhooks:
- name: order-validation
  rules:
  - apiGroups: ["example.com"]
    apiVersions: ["v1"]
    resources: ["orders"]
    operations: ["CREATE", "UPDATE"]
  failurePolicy: Fail
  admissionReviewVersions: ["v1", "v1beta1"]
  clientConfig:
    service:
      name: order-validation-service
      namespace: default
      path: /validate

```

4. Deploy the Validation Service: - Create a deployment for the validation service that implements the logic for validating the 'Order' resources against the new schema. - The service should expose an endpoint that the webhook can communicate with.

```

apiVersion: apps/v1
kind: Deployment
metadata:
  name: order-validation-service
spec:
  replicas: 1
  selector:
    matchLabels:
      app: order-validation
  template:
    metadata:
      labels:
        app: order-validation
    spec:
      containers:
      - name: order-validation
        image: your-validation-image:latest
        ports:
        - containerPort: 8443

```

5. Reconcile Existing Resources: - Once the validation webhook and service are deployed, create a temporary job that iterates through all existing 'Order' resources. - The job should validate each resource against the new schema and automatically update any resources that do not comply.

```

apiVersion: batch/v1
kind: Job
metadata:
  name: order-reconciliation-job
spec:
  template:
    spec:
      containers:
      - name: order-reconciliation
        image: your-reconciliation-image:latest
        command: ["bin/sh", "-c", "kubectl get orders --all-namespaces -o jsonpath='{.items[*].metadata.name}' | xargs -n 2 kubectl get -o jsonpath='{.spec}' | jq -r '. | + { \"metadata\": { \"annotations\": { \"order.example.com/schema-version\": \"2\" } } }' | kubectl apply -f -"]

```

By following these steps, you can ensure that your 'order' resources conform to the new schema without disrupting the application's functionality. The validation webhook prevents new invalid resources from being created, and the reconciliation job ensures that existing resources are updated to meet the new schema requirements. This approach allows for smooth schema evolution and maintains the consistency of your data.,

## NEW QUESTION # 117



Given a container that writes a log file in format A and a container that converts log files from format A to format B, create a deployment that runs both containers such that the log files from the first container are converted by the second container, emitting logs in format B.

Task:

\* Create a deployment named deployment-xyz in the default namespace, that:

\* Includes a primary

lfcncf/busybox:1 container, named logger-dev

\* includes a sidecar lfcncf/fluentd:v0.12 container, named adapter-zen

\* Mounts a shared volume /tmp/log on both containers, which does not persist when the pod is deleted

\* Instructs the logger-dev

container to run the command

```
while true; do
  echo "i luv cncf" >>
  tmp/log/input.log;
  sleep 10;
done
```

which should output logs to /tmp/log/input.log in plain text format, with example values:

```
i luv cncf
i luv cncf
i luv cncf
```

\* The adapter-zen sidecar container should read /tmp/log/input.log and output the data to /tmp/log/output.\* in Fluentd JSON format. Note that no knowledge of Fluentd is required to complete this task: all you will need to achieve this is to create the ConfigMap from the spec file provided at /opt/KDMC00102/fluentd-configmap.yaml, and mount that ConfigMap to /fluentd/etc in the adapter-zen sidecar container See the solution below.

Answer:

Explanation:

Solution:

The screenshot shows a web terminal interface with a dark blue header containing 'THE LINUX FOUNDATION' logo and 'Readme' and 'Web Terminal' buttons. The terminal output shows the command to create a deployment and the resulting YAML configuration for 'deployment-xyz'.

```
student@node-1:~$ kubectl create deployment deployment-xyz --image=lfcncf/busybox:1 --dry-run=client -o yaml > deployment_xyz.yml
student@node-1:~$ vim deployment_xyz.yml
```

```
apiVersion: apps/v1
kind: Deployment
metadata:
  creationTimestamp: null
  labels:
    app: deployment-xyz
  name: deployment-xyz
spec:
  replicas: 1
  selector:
    matchLabels:
      app: deployment-xyz
  strategy: {}
  template:
    metadata:
      creationTimestamp: null
      labels:
        app: deployment-xyz
    spec:
      containers:
      - image: lfcncf/busybox:1
        name: busybox
        resources: {}
status: {}
```

The terminal footer shows the file name and line/character count: '"deployment\_xyz.yml" 24L, 434C' and the page number '3,1'.

```

kind: Deployment
metadata:
  labels:
    app: deployment-xyz
  name: deployment-xyz
spec:
  replicas: 1
  selector:
    matchLabels:
      app: deployment-xyz
  template:
    metadata:
      labels:
        app: deployment-xyz
    spec:
      volumes:
      - name: myvol1
        emptyDir: {}
      containers:
      - image: lfccncf/busybox:1
        name: logger-dev
        volumeMounts:
        - name: myvol1
          mountPath: /tmp/log
      - image: lfccncf/fluentd:v0.12
        name: adapter-zen
3 lines yanked

```

27,22

Bot

```

replicas: 1
selector:
  matchLabels:
    app: deployment-xyz
template:
  metadata:
    labels:
      app: deployment-xyz
  spec:
    volumes:
    - name: myvol1
      emptyDir: {}
    containers:
    - image: lfccncf/busybox:1
      name: logger-dev
      command: ["/bin/sh", "-c", "while true; do echo 'i luv cnf!' >> /tmp/log/input.log; sleep 10; done"]
      volumeMounts:
      - name: myvol1
        mountPath: /tmp/log
    - image: lfccncf/fluentd:v0.12
      name: adapter-zen
      command: ["/bin/sh", "-c", "tail -f /tmp/log/input.log >> /tmp/log/output.log"]
      volumeMounts:
      - name: myvol1
        mountPath: /tmp/log

```

29,83

Bot

```

metadata:
  labels:
    app: deployment-xyz
spec:
  volumes:
  - name: myvol1
    emptyDir: {}
  - name: myvol2
    configMap:
      name: logconf
  containers:
  - image: lfccncf/busybox:1
    name: logger-dev
    command: ["/bin/sh", "-c", "while true; do echo 'i luv cnf!' >> /tmp/log/input.log; sleep 10; done"]
    volumeMounts:
    - name: myvol1
      mountPath: /tmp/log
  - image: lfccncf/fluentd:v0.12
    name: adapter-zen
    command: ["/bin/sh", "-c", "tail -f /tmp/log/input.log >> /tmp/log/output.log"]
    volumeMounts:
    - name: myvol1
      mountPath: /tmp/log
    - name: myvol2
      mountPath: /fluentd/etc

```

37,33

Bot

```
student@node-1:~$ kubectl create -f deployment-xyz.yml
deployment.apps/deployment-xyz created
student@node-1:~$ kubectl get deployment
NAME          READY   UP-TO-DATE   AVAILABLE   AGE
deployment-xyz 0/1     1             0           5s
student@node-1:~$ kubectl get deployment
NAME          READY   UP-TO-DATE   AVAILABLE   AGE
deployment-xyz 0/1     1             0           9s
student@node-1:~$ kubectl get deployment
NAME          READY   UP-TO-DATE   AVAILABLE   AGE
deployment-xyz 1/1     1             1           12s
student@node-1:~$
```

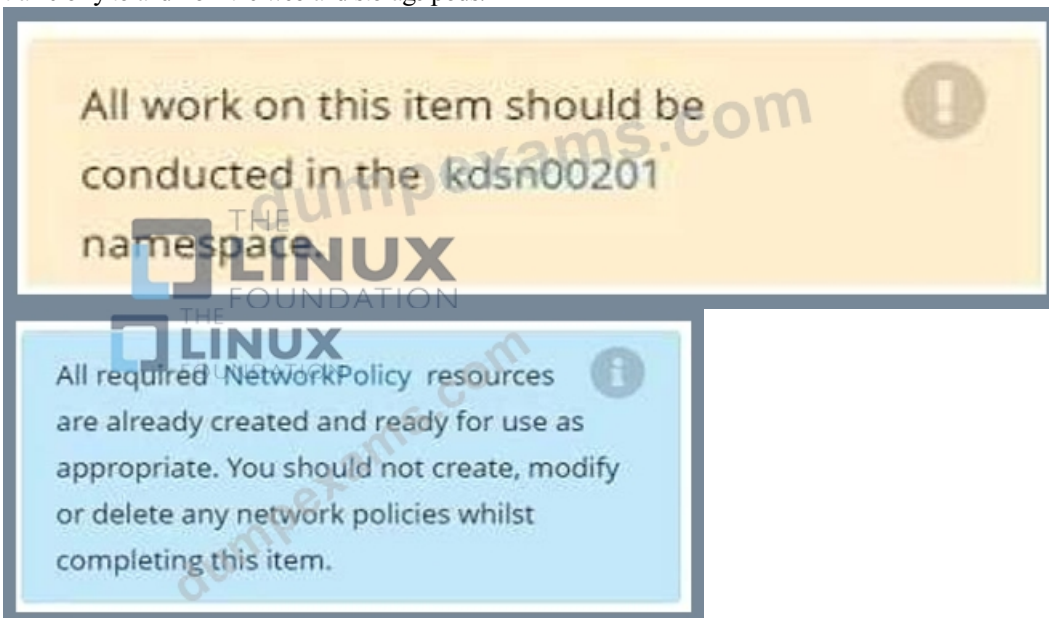
**NEW QUESTION # 118**

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.



- A. Pending

Answer: A

**NEW QUESTION # 119**

You're building a containerized application that needs access to a database running outside of the Kubernetes cluster. You need to implement a service account with specific permissions to access the external database using an API key.

**Answer:**

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Create a Service Account:

- Create a service account YAML file named 'database-service-account.yaml' with the following contents:

```
apiVersion: v1
kind: ServiceAccount
metadata:
  name: database-service-account
  namespace: your-application-namespace
```

2. Create a Secret for the API Key: - Create a secret YAML file named 'database-api-key.yaml' with the following contents:

```
apiVersion: v1
kind: Secret
metadata:
  name: database-api-key
  namespace: your-application-namespace
type: Opaque
data:
  api_key:
```

3. Create a Role and RoleBinding: - Create a Role YAML file named 'database-role.yaml' with the following contents:

```
apiVersion: rbac.authorization.k8s.io/v1
kind: Role
metadata:
  name: database-role
  namespace: your-application-namespace
rules:
- apiGroups: [""]
  resources: ["secrets"]
  verbs: ["get", "list", "watch"]
```

4. Create a RoleBinding YAML: - Create a RoleBinding YAML file named 'database-rolebinding.yaml' with the following contents:

```
apiVersion: rbac.authorization.k8s.io/v1
kind: RoleBinding
metadata:
  name: database-rolebinding
  namespace: your-application-namespace
roleRef:
  apiGroup: rbac.authorization.k8s.io
  kind: Role
  name: database-role
subjects:
- kind: ServiceAccount
  name: database-service-account
  namespace: your-application-namespace
```

5. Apply the YAML Files: - Apply the created YAML files using 'kubectl apply -f database-service-account.yaml', 'kubectl apply -f database-api-key.yaml', 'kubectl apply -f database-role.yaml', and 'kubectl apply -f database-rolebinding.yaml'.  
6. Update your Deployment: - Update your application deployment to use the 'database-service-account' and mount the secret containing the API key.

```

apiVersion: apps/v1
kind: Deployment
metadata:
  name: your-application-deployment
  namespace: your-application-namespace
spec:
  template:
    spec:
      serviceAccountName: database-service-account
      containers:
      - name: your-application
        image: your-application-image
        env:
        - name: DATABASE_API_KEY
          valueFrom:
            secretKeyRef:
              name: database-api-key
              key: api_key

```

7. Access the External Database: - Your application container should now be able to access the external database using the API key provided in the secret.

## NEW QUESTION # 120

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