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CNCF Certified Kubernetes Administrator Exam Details

The CNCF Certified Kubernetes Administrator exam is a 90-minute, 60-multiple choice question test that will be administered at one of Brightworks locations. The official study guide will contain a large portion of the available questions. The client preparation for this exam will be performed through simulated test-taking. Content of the exam will be strictly limited to material covered in the official study guide. Class time will be used for a detailed walk-through of this study guide. Appearing in the actual exam, some questions will be presented in a form of diagram or table to test knowledge of best practices for specific applications. Complete preparation for the exam should include the use of a Kubernetes cloud platform such as kubernetes to test infrastructure in a learn-by-doing approach. Limited to one attempt, rescheduling of exams is possible only in the event of an emergency.

Windows, Linux, and MacOS are all supported for this exam. Verified cloud platforms for this exam include:

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Linux Foundation CKA (Certified Kubernetes Administrator) Program is a certification exam that has been designed to test and validate the skills of individuals who are looking to work with Kubernetes. Kubernetes is an open-source platform that is used to

manage containerized applications. It is widely used in the cloud computing industry and is a critical skill for professionals who want to work with cloud-native technologies.

Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam Sample Questions (Q36-Q41):

NEW QUESTION # 36

You have an application deployed in your Kubernetes cluster that is configured to access a private database hosted on another Kubernetes cluster in a different VPC. How would you configure a secure and efficient way for your application to communicate with the private database?

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1 . Create a Service Account in the Database Cluster:

- Create a Service Account in the database cluster that will be used by the application in the other cluster.

- Example:

```
apiVersion: v1
kind: ServiceAccount
metadata:
  name: database-client
```

- Apply this configuration using 'kubectl apply -f service-account.yaml' in the database cluster. 2. Generate a Secret for the Service Account: - Generate a secret for the Service Account. This secret will contain the credentials needed to access the database. -

Example: `bash kubectl create secret generic database-client-secret --from-literal=username=<username> -n <namespace>` - Replace `<username>` with your actual credentials and `<namespace>` with the namespace where your database service is running. 3. Configure a Network Policy: - Create a Network Policy in the database cluster to allow traffic from your application's pods in the other cluster. - Example:

```
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: allow-app-access
spec:
  podSelector: {}
  ingress:
    - from:
      - podSelector:
          matchLabels:
            app:
```

- Replace with the label assigned to your application pods. 4. Create a Service in the Database Cluster: - Create a Service in the database cluster that exposes your database. This service will be used by your application to connect to the database. - Example:

```
apiVersion: v1
kind: Service
metadata:
  name: database-service
spec:
  ports:
    - port: 5432
      targetPort: 5432
      protocol: TCP
  selector:
    app: database
```

- Replace 'database' with the label of your database pods. 6. Configure the Application Deployment: - In your application's deployment configuration, mount the secret containing the database credentials and configure your application to connect to the database service in the other cluster using the service's DNS name. - Example:

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-app
spec:
  replicas: 2
  template:
    spec:
      containers:
        - name: my-app
          image: my-app:latest
          env:
            - name: DATABASE_URL
              value: postgres://database-client:database-client-secret@database-service.database-namespace.svc.cluster.local:5432/your-database
          volumeMounts:
            - name: database-credentials
              mountPath: /var/secrets/database
      volumes:
        - name: database-credentials
          secret:
            secretName: database-client-secret
```

- Ensure that the application has the necessary network connectivity to access the database cluster through your network configuration. - Example: - Configure a VPC peering connection between the two VPCs to enable direct communication between the clusters. - Create a VPN connection between the clusters using a VPN gateway. 7. Test the Connection: - Verify that your application can successfully connect to and interact with the database.

NEW QUESTION # 37

Which one is the correct configuration?

- A. #Panorama
- B. \$Panorama
- C. @Panorama
- D. &Panorama

Answer: B

NEW QUESTION # 38

Schedule a pod as follows:

Name: nginx-kusc00101

Image: nginx

Node selector: disk=ssd

Answer:

Explanation:
solution

```
root@node-1:~# vim disk.yaml
```

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```
apiVersion: v1
kind: Pod
metadata:
  name: nginx-kusc00101
spec:
  containers:
  - name: nginx
    image: nginx
    imagePullPolicy: IfNotPresent
  nodeSelector:
    disk: ssd
```

```
"disk.yaml" [New] 11L, 176C written
```

```
root@node-1:~# vim disk.yaml
root@node-1:~# k create -f disk.yaml
pod/nginx-kusc00101 created
root@node-1:~# k get po
```

NAME	READY	STATUS	RESTARTS	AGE
cpu-utilizer-98b9se	1/1	Running	0	5h59m
cpu-utilizer-ab2d3s	1/1	Running	0	5h59m
cpu-utilizer-kipb9a	1/1	Running	0	5h59m
ds-kusc00201-2r2k9	1/1	Running	0	13m
ds-kusc00201-hzm9q	1/1	Running	0	13m
foo	1/1	Running	0	6h1m
front-end	1/1	Running	0	6h1m
hungry-bear	1/1	Running	0	9m37s
kucc8	3/3	Running	0	7m37s
nginx-kusc00101	1/1	Running	0	9s
webserver-84c55967f4-qzjcy	1/1	Running	0	6h16m
webserver-84c55967f4-t479l	1/1	Running	0	6h16m

```
root@node-1:~#
```

NEW QUESTION # 39

Create a pod as follows:

- * Name: non-persistent-redis
- * container Image: redis
- * Volume with name: cache-control
- * Mount path: /data/redis

The pod should launch in the staging namespace and the volume must not be persistent.

Answer:

Explanation:

See the solution below.

Explanation

solution

```
root@node-1:~#  
root@node-1:~#  
root@node-1:~# vim volume.yaml
```

```
apiVersion: v1
kind: Pod
metadata:
  name: non-persistent-redis
  namespace: staging
spec:
  containers:
    - name: redis
      image: redis
      volumeMounts:
        - name: cache-control
          mountPath: /data/redis
      volumes:
        - name: cache-control
          emptyDir: {}
```

```
root@node-1:~#  
root@node-1:~#  
root@node-1:~# vim volume.yaml  
root@node-1:~# k create -f volume.yaml  
pod/non-persistent-redis created  
root@node-1:~# k get po -n staging  
NAME                READY   STATUS    RESTARTS   AGE  
non-persistent-redis 1/1     Running   0           6s  
root@node-1:~#
```

NEW QUESTION # 40

Create an nginx pod with containerPort 80 and it should check the pod running at endpoint / healthz on port 80 and verify and delete the pod.

- A. `kubectl run nginx --image=nginx --restart=Always --port=80 --dry-run -o yaml > nginx-pod.yaml`
// add the livenessProbe section and create
apiVersion: v1
kind: Pod
metadata:
labels:
run: nginx
name: nginx
spec:
containers:
- image: nginx
name: nginx
ports:
- containerPort: 80
livenessProbe:
httpGet:
path: /healthz
port: 80
restartPolicy: Always
kubectl create -f nginx-pod.yaml
// verify
kubectl describe pod nginx | grep -i readiness
kubectl delete po nginx
- B. `kubectl run nginx --image=nginx --restart=Always --port=80 --dry-run -o yaml > nginx-pod.yaml`
// add the livenessProbe section and create
apiVersion: v1
kind: Pod

Answer: A

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