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CKA DUMPS 2022

Certified Kubernetes Administrator



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Exam Breakdown

The CKA exam covers 5 main domains: Cluster Architecture (25%), Workloads & Scheduling (15%), Services & Networking (20%), Storage (10%), and Troubleshooting (30%)

2

Prep Timeline

Recommended CKA exam prep timeline is 6-8 weeks of preparation

3

Key Strategies

Key CKA exam prep strategies include taking practice exams, reviewing Kubernetes concepts, and reading exam tips from professionals

4

Career Impact

Key CKA exam prep strategies include taking practice exams, reviewing Kubernetes concepts, and reading exam tips from professionals

5

Exam Logistics

The CKA exam fee is \$375 and the certification is valid for 3 years



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Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam Sample Questions (Q83-Q88):

NEW QUESTION # 83

You have a Deployment named 'nginx-deployment' running an Nginx server. The Nginx configuration file is stored in a ConfigMap named 'nginx-config'. You need to dynamically update the Nginx configuration file without restarting the Nginx pods.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1 . Create the ConfigMap (if not already existing):

- Define a ConfigMap named 'nginx-config' containing the Nginx configuration file. For example, create a file 'nginx.conf' with the desired configuration and then create the ConfigMap using 'kubectl create configmap nginx-config --from-file=nginx.conf'

```
kubectl create configmap nginx-config --from-file=nginx.conf
```

2. Configure Nginx Deployment:

- Modify the 'nginx-deployment' Deployment to mount the 'nginx-config' ConfigMap as a volume.

- Use 'volumeMounts' to specify where the ConfigMap should be mounted (e.g., '/etc/nginx/conf.d/') and 'volumes' to define the ConfigMap as a volume source.

- Update the Nginx container's configuration to use the mounted configuration file (e.g., 'nginx -g daemon off;').

3. Update the ConfigMap: - Modify the 'nginx-config' ConfigMap with the new configuration content. This can be done using 'kubectl patch' or 'kubectl edit': `kubectl patch configmap nginx-config -p '{"data": {"nginx.conf": "new_nginx_configuration"}}'`

4. Observe Nginx Pods: - Monitor the Nginx pods in the 'nginx-deployment' Deployment. Since the ConfigMap is mounted as a volume, Nginx will automatically reload the configuration file without restarting the pod.

5. Verify the Update: - Use 'kubectl logs' or 'kubectl exec' to examine the Nginx pod's logs and confirm that the new configuration is being used.

NEW QUESTION # 84

Ensure a single instance of pod nginx is running on each node of the Kubernetes cluster where nginx also represents the Image name which has to be used. Do not override any taints currently in place.
Use DaemonSet to complete this task and use ds-kusc00201 as DaemonSet name.

Answer:

Explanation:

See the solution below.

Explanation

solution

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□ F:\Work\Data Entry Work\Data Entry\20200827\CKA\3 D.JPG

□ F:\Work\Data Entry Work\Data Entry\20200827\CKA\3 E.JPG

□

NEW QUESTION # 85

Create a deployment spec file that will:

* Launch 7 replicas of the nginx Image with the labelapp_runtime_stage=dev

* deployment name: kual00201

Save a copy of this spec file to /opt/KUAL00201/spec_deployment.yaml

(or /opt/KUAL00201/spec_deployment.json).

When you are done, clean up (delete) any new Kubernetes API object that you produced during this task.

Answer:

Explanation:

See the solution below.

Explanation

solution

□

NEW QUESTION # 86

You are managing a Kubernetes cluster for a company with multiple teams working on different projects. You want to implement RBAC to ensure each team has access only to the resources they need.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Team A (developers) needs to create and manage deployments, pods, and services in the "dev" namespace.

Team B (ops) needs to manage the cluster's overall health and can access all resources in all namespaces.

Team C (security) needs to audit and monitor all cluster activity but cannot modify any resources.

Create a YAML file to define the roles and role bindings to implement this RBAC setup.

Solution (Step by Step) :

1 . Create the "dev" namespace:

kubectl create namespace dev

2. Define the "dev-team" role:

□

3. Create the "dev-team" role binding:

□

4. Define the "ops-team" role:

□

5. Create the "ops-team" role binding:

□

6. Define the "security-team" role:

□

7. Create the "security-team" role binding:

□

8. Apply the YAML file to the cluster: kubectl apply -f rbac-config.yaml

NEW QUESTION # 87

Score: 4%

Context

You have been asked to create a new ClusterRole for a deployment pipeline and bind it to a specific ServiceAccount scoped to a specific namespace.

Task

Create a new ClusterRole named deployment-clusterrole, which only allows to create the following resource types:

- * Deployment
- * StatefulSet
- * DaemonSet

Create a new ServiceAccount named cid-token in the existing namespace app-team1.

Bind the new ClusterRole deployment-clusterrole to the new ServiceAccount cid-token, limited to the namespace app-team1.

Answer:

Explanation:

Solution:

Task should be complete on node k8s - 1 master, 2 worker for this connect use command

```
[student@node-1] > ssh k8s
```

```
kubectl create clusterrole deployment-clusterrole --verb=create --resource=deployments,statefulsets, daemonsets kubectl create serviceaccount cid-token --namespace=app-team1 kubectl create rolebinding deployment-clusterrole --clusterrole=deployment-clusterrole -- serviceaccount=default:cid-token --namespace=app-team1
```

NEW QUESTION # 88

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