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Linux Foundation

CKA Exam

Kubernetes Administrator

Questions & Answers

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Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam Sample Questions (Q66-Q71):

NEW QUESTION # 66

Create a deployment as follows:

- * Name: nginx-app
- * Using container nginx with version 1.11.10-alpine
- * The deployment should contain 3 replicas

Next, deploy the application with new version 1.11.13-alpine, by performing a rolling update.

Finally, rollback that update to the previous version 1.11.10-alpine.

Answer:

Explanation:

See the solution below.

Explanation

solution

...

NEW QUESTION # 67

Your Kubernetes cluster has been running for some time, and it's becoming increasingly difficult to manage permissions for your applications. You are noticing a growing list of roles and role bindings, making it challenging to understand the relationships between them.

Describe a strategy to simplify and streamline your RBAC configuration by implementing best practices. Also, discuss how you can improve the manageability and auditing of your RBAC setup.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Implement a Hierarchical Structure:

- Create high-level roles for common tasks such as "admin," "developer," "viewer," etc., providing broad permissions.
- Build more specific roles for specific applications or services, inheriting permissions from the higher-level roles.
- Example:
 - "admin" role: grants full access to the cluster.
 - "app-developer" role: inherits from "admin," but with restricted permissions only to specific namespaces and resources related to the application.
 - "app-viewer" role: inherits from "app-developer" with limited permissions for monitoring and viewing resources.

2. Utilize ClusterRoles for Global Permissions:

- ClusterRoles are designed to grant permissions across the entire cluster, simplifying management for resources that need consistent access.
- This allows for centralized control of common permissions, reducing duplication of role definitions.

3. Leverage Service Accounts for Application-Level Permissions:

- Create service accounts for each application and bind them to appropriate roles.
- Use service accounts to manage access for pods, deployments, and other resources related to a specific application.
- This reduces the need for manually assigning permissions to individual resources.

4. Adopt a Role-Based Structure:

- Design RBAC policies around roles instead of individual users.
- This allows for easier management of permissions by modifying roles rather than individual user bindings.
- Ensure users are assigned to appropriate roles based on their responsibilities.

5. Implement RBAC Auditing and Monitoring:

- Use tools like 'kubectl auth can-i' to test and validate RBAC permissions.
- Monitor RBAC events and changes using audit logging features.

- Analyze audit logs to identify any suspicious activity and troubleshoot RBAC issues.

6. Consider External RBAC Solutions:

- For larger deployments, consider using external RBAC solutions like Keycloak or OpenLDAP for centralized user management and role-based access control.

- This can simplify the process of managing users, roles, and permissions across multiple clusters.

7. Documentation:

- Maintain comprehensive documentation of your RBAC setup, including roles, bindings, and any specific permissions.

- This documentation will be crucial for future maintenance, debugging, and troubleshooting.

NEW QUESTION # 68

Print pod name and start time to "/opt/pod-status" file

Answer:

Explanation:

See the solution below.

Explanation

```
kubectl get pods -o=jsonpath='{range items[*]}{.metadata.name} {"\t"} {.status.podIP} {"\n"} {end}'
```

NEW QUESTION # 69

Score:7%

Task

Create a new PersistentVolumeClaim

* Name: pv-volume

* Class: csi-hostpath-sc

* Capacity: 10Mi

Create a new Pod which mounts the PersistentVolumeClaim as a volume:

* Name: web-server

* Image: nginx

* Mount path: /usr/share/nginx/html

Configure the new Pod to have ReadWriteOnce access on the volume.

Finally, using kubectl edit or kubectl patch expand the PersistentVolumeClaim to a capacity of 70Mi and record that change.

Answer:

Explanation:

Solution:

```
vi pvc.yaml
```

```
storageclass pvc
```

```
apiVersion: v1
```

```
kind: PersistentVolumeClaim
```

```
metadata:
```

```
name: pv-volume
```

```
spec:
```

```
accessModes:
```

- ReadWriteOnce

```
volumeMode: Filesystem
```

```
resources:
```

```
requests:
```

```
storage: 10Mi
```

```
storageClassName: csi-hostpath-sc
```

```
# vi pod-pvc.yaml
```

```
apiVersion: v1
```

```
kind: Pod
```

```
metadata:
```

```
name: web-server
```

```
spec:
```

```

containers:
- name: web-server
image: nginx
volumeMounts:
- mountPath: "/usr/share/nginx/html"
name: my-volume
volumes:
- name: my-volume
persistentVolumeClaim:
claimName: pv-volume
# craete
kubectl create -f pod-pvc.yaml
#edit
kubectl edit pvc pv-volume --record

```

NEW QUESTION # 70

You have two Kubernetes deployments running in different namespaces, 'namespace-A' and 'namespace-B'. You need to allow communication from pods in 'namespace-A' to a specific pod in 'namespace-B'. How can you achieve this using NetworkPolicies?

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1 . Create a NetworkPolicy in namespace-R:

- Create a NetworkPolicy in 'namespace-R' that allows traffic to the specific pod in 'namespace-B'.

- Code:

2. Ensure the Target Pod has the Correct Label: - Ensure that the specific pod in 'namespace-B' has the label 'app: target-pod'.

3. Apply the NetworkPolicy: - Apply the NetworkPolicy using 'kubectl apply -f networkpolicy.yaml' ..,

NEW QUESTION # 71

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