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Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q134-Q139):

NEW QUESTION # 134

You have a Kubernetes cluster with a Deployment named 'my-app' that runs a web application. You want to restrict access to this application to only specific users within your organization. How would you use Service Accounts and RBAC to implement this?

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1 . Create a Service Account:

- Create a new Service Account specifically for your application:

- Apply this YAML file using 'kubectl apply -f my-app-sa.yaml'. 2. Create a Role: - Define a Role that grants specific permissions to the Service Account. For example, you might want to grant read access to the Deployment's secrets:

- Apply this YAML file using 'kubectl apply -f my-app-reader.yaml' 3. Bind the Role to the Service Account: - Create a

RoleBinding that associates the 'my-app-reader' Role with the 'my-app-sa' Service Account:

- - Apply this YAML file using 'kubectl apply -f my-app-sa-binding.yaml' 4. Update the Deployment: - Update the 'my-app' Deployment to use the new Service Account:
- - Apply the updated Deployment configuration using 'kubectl apply -f my-app.yaml' 5. Verify: - Ensure that pods within the 'my-app' Deployment are running with the correct Service Account. You can use 'kubectl get pods -l app=my-app -o wide' to inspect the pod details. 6. Restricting Access to Specific Users: - To restrict access to the application to specific users within your organization, you would need to: - Configure a more granular Role to grant specific access levels (e.g., read-only, edit, etc.). - Use a Kubernetes authentication provider (such as OAuth2 or OpenID Connect) to authenticate and authorize users. - Bind the Role to the user's identity, ensuring they have the appropriate permissions. Important Note: This example provides a basic setup for RBAC with Service Accounts. In real-world scenarios, you might need to configure more complex RBAC rules to address your specific security requirements and user access control policies.]

NEW QUESTION # 135

You are deploying a resource-intensive application that requires a large amount of memory and CPU. How would you create a ResourceQuota to limit the resources consumed by this application and prevent it from impacting other workloads in the cluster?

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1). Define the ResourceQuota:

- Create a ResourceQuota object named 'resource-limit' in the namespace where the application is deployed.
- Set the resource limits for the application by specifying the maximum allowed requests for CPU and memory.
- You can also set limits for other resources, such as pods and services.

2. Apply the ResourceQuota: - Apply the ResourceQuota configuration using 'kubectl apply -f resource-limit.yaml' 3. Test the Resource Limits. - Try to create or scale the resource-intensive application beyond the defined limits. - You should receive an error indicating that the ResourceQuota has been exceeded.

NEW QUESTION # 136

□ Task

You are required to create a pod that requests a certain amount of CPU and memory, so it gets scheduled to a node that has those resources available.

- * Create a pod named 'nginx-resources' in the 'pod-resources' namespace that requests a minimum of 200m CPU and 1Gi memory for its container
- * The pod should use the 'nginx' image
- * The 'pod-resources' namespace has already been created

Answer:

Explanation:

See the solution below.

Explanation:

Solution:

□
□
□

NEW QUESTION # 137

You need to configure a Kubernetes Deployment to use a service account to access resources in a specific namespace. How can you create and assign a service account to your deployment, and how can you configure the service account to access resources in a different namespace?

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 in the namespace where your deployment will run:
- Apply this YAML file using: `bash kubectl apply -f service-account-yaml`
- 2. Create a Role and RoleBinding: - Define a role in the target namespace that the service account should have access to:
- Create a RoleBinding to bind the role to the service account:
- Apply the Role and RoleBinding YAML files using: `bash kubectl apply -f role-yaml` `kubectl apply -f rolebinding-yaml`
- 3. Modify your Deployment: - Update your Deployment YAML file to use the service account:
- Apply the updated deployment
- 4. Verify Access: - You can now use the service account to access resources in the target namespace. For example, you can create a pod that uses the service account and run a command to access resources.

NEW QUESTION # 138

You have a Deployment named 'api-deployment' that runs an API server. The API server handles sensitive data and must have strong security measures. You want to ensure that all pods within the Deployment are running with a specific security context that limits their capabilities. Describe the steps to configure a SecurityContext in the Deployment to enforce these security restrictions.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Define the SecurityContext:

- Add a 'securityContext' section to the container definition Within the Deployment's template.
 - Define the desired security restrictions Within the 'securityContext section
 - 'runAsUser': Specifies the user ID under which the container should run.
 - 'runAsGroup': Defines the group ID for the container.
 - 'fsGroup': Sets the supplemental group ID for the container, giving access to specific files and directories.
 - 'readOnlyRootFilesystem': Specifies whether the container should have read-only access to the root filesystem.
 - 'capabilities': Configures the allowed capabilities for the container, limiting its privileges.
2. Apply the Deployment: - Use `'kubectl apply -f api-deployment_yamr'` to update the Deployment with the security context configuration.
3. Verify the Security Context: - Examine the pod details using `'kubectl describe pod -I app=api-server'` to confirm that the SecurityContext is applied to the containers.
4. Test Security Measures: - Run tests to ensure the security context is effectively limiting the capabilities of the API server pods.

NEW QUESTION # 139

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