

Quiz Linux Foundation CKAD Marvelous Practice Exams Free

```
candidate@node1:~/homame-storks$ kubectl scale deployment canary-krill-deployment --replicas 4 -n goshawk
deployment.apps/canary-krill-deployment scaled
candidate@node1:~/homame-storks$ kubectl get deploy -n goshawk
NAME                    READY   UP-TO-DATE   AVAILABLE   AGE
canary-krill-deployment 4/4      4            4           46s
current-krill-deployment 5/5      5            5           7822m
candidate@node1:~/homame-storks$ wget https://k8s.io/examples/
```

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Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q206-Q211):

NEW QUESTION # 206

You have a web application that requires a dedicated load balancer to handle incoming traffic and distribute requests across multiple pods- HOW can you set up a dedicated load balancer in Kubernetes using a 'Services and Ingress'?

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Create a Deployment:

- Create a 'Deployment' for your web application.
- Specify the number of replicas, image, and any other necessary configuration.

2. Define a Service: - Create a 'service' to expose your 'Deployment' and provide a load balancing endpoint. - Specify the 'selector' to match the labels of your pods and use 'type: LoadBalancer' to request a dedicated load balancer from your cloud provider.

3. Configure an Ingress: - Create an 'Ingress' Object to handle incoming traffic and route it to the correct service. - Specify the 'hostname' for your web application and the 'backend' service to which the requests should be forwarded.

4. Apply the Configuration: - Apply the 'Deployment', 'service', and 'Ingress' definitions using 'kubectl apply' or 'kubectl create' 5.

Access Your Application: - Once the 'Ingress' is configured, you can access your web application using the specified hostname (e.g., 'my-web-app-example.com'). The load balancer will distribute the traffic across the available pods of your web application. Note: The 'type: LoadBalancer' service will create a dedicated load balancer in your cloud provider, which will be accessible through an external IP address. The 'Ingress' object will map the hostname to this load balancer, routing traffic to your web application pods.

NEW QUESTION # 207

You are managing a Kubernetes cluster with multiple teams working on different projects. Each team needs its own isolated environment within the cluster to deploy their applications and manage their resources without interfering with others. Describe how you would use Kubernetes namespaces to achieve this, and provide an example of how you might configure a namespace for a team working on a new e-commerce application.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Create Namespaces for Teams: use 'kubectl create namespace' command to create namespaces for each team. For example, 'kubectl create namespace ecom-team'.
2. Configure Resource Quotas: Set resource limits for each namespace using 'kubectl create -f' command. This prevents one team from consuming all the resources available on the cluster. Here's a sample resource quota file:
3. Apply Role-Based Access Control (RBAC): Use 'kubectl create -f' command to define role bindings for each team. This allows you to control the actions that each team can perform within their namespace. Here's a sample role binding file:
4. Create Resources within the Namespace: Deploy your applications and other resources within the dedicated namespace for the e-commerce team. For example, you can deploy a 'Deployment' with the following configuration:
5. Verify Namespace Configuration: Use 'kubectl get namespaces' to list all namespaces, and 'kubectl describe namespace' to view details of a specific namespace.
6. Manage Namespace Access: You can use tools like 'kubectl' or a graphical user interface (GUI) to manage the access rights and resources within each namespace.
7. Cleanup: When a team no longer needs a specific namespace, you can delete it using 'kubectl delete namespace'.

NEW QUESTION # 208

You need to implement a mechanism for automatically rolling out new versions of your application pods. This process should be triggered by a change in the application's container image tag in a Docker Hub repository.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Configure the Deployment for Rolling Updates:
 - Update your application deployment to specify a 'rollingUpdate' strategy
 - Set 'maxUnavailable' and 'maxSurge' to control the rolling update process-
 - Include a 'strategy.type' to 'RollingUpdates'
 - Set 'imagePullPolicy' to 'Always' to ensure that new images are always pulled from the Docker Hub repository.
2. Apply the Deployment: - Apply the updated deployment using 'kubectl apply -f your-application-deployment.yaml'
3. Push a New Image to Docker Hub: - Update your application's container image in the Docker Hub repository and push the new image with a different tag. For example, update the tag from 'latest' to 'v2'.
4. Monitor the Deployment: - Observe the rolling update process using 'kubectl get pods -l app=your-application'. You should see new pods with the updated image being created and old pods being terminated.
5. Verify the Update: - Once the rolling update is complete, use 'kubectl describe deployment your-application-deployment' to verify that the 'updatedReplicas' field matches the 'replicas' field. This confirms that the update was successful.

NEW QUESTION # 209

You have a Kubernetes deployment named 'myapp-deployment' that runs a container with a 'requirements.txt' file that lists all the dependencies. How can you use ConfigMaps to manage these dependencies and dynamically update the container with new dependencies without rebuilding the image?

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Create a ConfigMap named 'myapp-requirements':

2 Apply the ConfigMap: `basn kubectl apply -f myapp-requirements _yaml` 3. Update the 'myapp-deployment' Deployment to use the ConfigMap:

4. Apply the updated Deployment: `bash kubectl apply -f myapp-deployment.yaml` 5. Test the automatic update: - Modify the 'myapp-requirements' ConfigMap: `bash kubectl edit configmap myapp-requirements` Add or remove dependencies from the 'requirements.txt' file in the ConfigMap. - Verify the changes in the pod- `bash kubectl exec -it bash -c 'pip freeze'` Replace with the name of the pod. The output will show the installed dependencies. This solution enables you to manage dependencies dynamically without rebuilding the container image. Whenever you make changes to the 'myapp- requirements' ConfigMap, the deployment will automatically pull the updated dependencies and install them Within the container.

NEW QUESTION # 210

Task:

Update the Pod `ckad00018-newpod` in the `ckad00018` namespace to use a NetworkPolicy allowing the Pod to send and receive traffic only to and from the pods `web` and `db`

Answer:

Explanation:

See the solution below.

Explanation:

Solution:

NEW QUESTION # 211

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There is no doubt that we all dream of working for top companies around the globe. Some people make it through but some keep on thinking about how to break that glass. If you are among those who belong to the latter category, you should start the preparations for the Linux Foundation Certified Kubernetes Application Developer Exam (CKAD) certification exam to improve your knowledge, expertise and crack even the toughest interview easily.

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