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What is the Kubernetes dashboard?

The dashboard lets you manage your own cluster, see the status of large clusters, manage secrets, and modify configuration settings. Learn about your examples and use them as a template for your own work. It is helpful for administration and monitoring. It is like the MMC interface in Windows, but all administration is done directly from the Kubernetes command line. You can use it to manage secrets and passwords to increase security. Helped to create stable clusters. You can also use it to deploy applications and configure their services. **CNCF CKAD Dumps** is how you can pass the exam with flying colors and score more points. It will make managing your Kubernetes cluster easier and more efficient for you. Simple to use, and you can manage your cluster with a few commands. Useful to you when you are configuring the cluster. You need to run the command to start it for the first time. You can use it instead of kubectl or Kubernetes's web interface. Systems administrators or deployment engineers who use Kubernetes with the help of the dashboard.

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Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q158-Q163):

NEW QUESTION #158

You have a Kustomization file that defines a Deployment with two replicas. You want to configure the deployment to use a different image tag based on the environment it is deployed to- For example, in the 'dev' environment, the image tag should be 'example/nginx:dev', while in the 'prod' environment, it should be 'example:nginx:prod'. Describe how to achieve this using Kustomize.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step):

1. Create a base Kustomization file:

resources:

- deployment, yaml
- 2. Create a deployment-yaml file:

```
apiVersion: apps/v1
kind: Deployment
metadata:
 name: nginx-deployment
              mstorrent.com
spec:
  replicas: 2
  selector:
    matchLabels:
     app: nginx
  template:
    metadata:
     labels:
app: nginx
    spec:
     containers:
      - name: nginx
              example/nginx:latest
        image
```

3. Create environment-specific overlays: - For dev environment

- For prod environment:



4. Create a patch yaml file:

```
apiVersion: apps/v1
kind: Deployment
metadata:
   name: nginx-deployment
spec:
   template:
   spec:
   containers:
   - name: nginx
   image: example/nginx:{{.environment}}}
```

5. Apply Kustomize: - For dev environment: bash Kustomize dev I oubect1 apply -f - - For prod environment: bash Kustomize prod I oubect1 apply -f - - The base customization file defines the resources that are included in the deployment. - The environment-specific overlays patch the base resources With the appropriate image tag. - The patchesStrategicMerge' field applies the patch yaml tile to the deployment. - The '{{.environment} Y placeholder in the patch file is replaced with the actual environment name when Kustomize is applied. This approach allows you to easily manage and deploy your applications to different environments with specific configuration settings.

NEW QUESTION #159

You are building a microservice that relies on a third-party API for its functionality_ To ensure the reliability and performance of your microservice, you need to implement a robust strategy tor handling API calls. Design a deployment strategy that addresses potential issues with the third-pany API and ensures the stability of your microservice.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step):

I). Use a Deployment:

- Deploy your microservice using a Deployment. Deployments provide a robust mechanism for managing and scaling your microservices, making it easy to update and manage your application.

```
apiVersion: apps/vl
kind: Deployment
metadata:
  name: api-consuming-service-deployment
  replicas: 2
  selector:
    matchLabels:
      app: api-consuming-service
  template:
    metadata:
      labels:
        app: api-consuming-service
    spec:
      containers:

    name: api-consuming-service

        image: your-image-repo:latest
        env:

    name: API ENDPOINT

          value: your-api-endpoint
        - name: API KEY
     OUN Value From:
            secretKeyRef:
              name: api-credentials
              key: key
```

2. Secure API Credentials: - Store API credentials (like API keys or tokens) securely using a Kubernetes Secret. This prevents credentials from being exposed in plain text within your deployments.

```
apiVersion: VIUX
kind: Secret
metadata:
name: api-credentials
stringData:
key: your-api-key
```

3. Implement Retry Mechanisms: - Add retry logic to your code to handle transient errors (like network hiccups or temporary service outages) during API calls. This helps ensure that your microservice can recover from temporary issues and continue functioning. 4. Utilize Rate Limiting: - Implement rate limiting to prevent your microservice from ovenwhelming the third-party API. This helps protect both your microservice and the API from performance degradation- 5. Use a Circuit Breaker Pattern: - Integrate a circuit breaker pattern into your API call handling. This pattern helps prevent cascading failures by automatically stopping requests to the third-party API it it is experiencing prolonged outages or errors- 6. Consider a Proxy or Gateway: - Implement a proxy or gateway layer between your microservice and the third-party API. This layer can help with request routing, load balancing, security, and performance optimization. 7. Monitor API Calls: - Implement monitoring and logging to track API call performance and identify potential issues. This allows you to proactively identify and address problems before they impact your microservice's reliability 8. Utilize Caching: - Consider caching API responses to reduce the load on the third-party API and improve the response time of your microservice. 9. Implement Fallbacks: - Have fallback mechanisms in place if the third-party API is unavailable. This could involve returning default data or using alternative data sources to provide a degraded but functional experience. 10. Consider Using a Service Mesh: - For complex microservice architectures, consider implementing a service mesh like Istio. Service meshes provide features like traffic management, security, observability, and resilience, which can be very beneficial for managing interactions with third-party APIs.

NEW QUESTION #160

You have a Deployment for a web application that uses a separate Redis cache pod for session management. You want to ensure that each web application pod can access a dedicated Redis instance for session management and avoid contention. Explain how you can use a Persistent Volume Claim and Statetul Set to achieve this.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step):

- I). Create a PersistentVoIumeClaim:
- Create a Persistent Volume Claim (PVC) to request persistent storage for each Redis instance.
- Specify the storage size, access modes, and other requirements based on your needs.
- Example:

```
apiVersion: v1 LINUX
kind: PersistentVolumeClaim
metadata:
  name: redis-pvc
spec:
  accessModes:
  - ReadWriteOnce
  resources:
    requests:
    storage: 16i
```

2. Create a StatefulSet: - Define a StatefulSet for the Redis pods. - Associate each Redis pod with a unique PVC, ensuring that each pod gets its own dedicated persistent volume. - Example:

```
apiVersion: apps/v1
kind: StatefulSet
metadata:
  name: redis-statefulset
spec:
  serviceName: "redis-service"
  replicas: 3
  selector:
                  rrent.com
   matchLabels:
     app: redis
  template:
   metadata:
     labels:
       app: redis
    spec:
     containers:
      - name: redis
       image: redis:latest
       ports:
        - containerPort: 6379
       volumeMounts:
        - name: redis-data
         mountPath: /data
      volumes:
      - name: redis-data
       persistentVolumeClaim:
          claimName: redis-pvc
```

3. Configure the Deployment: - Denne tne web application pod Within a Deployment. - Use a Service (e.g., 'redis-service') to access the Redis instances. - Make sure the web application's code can access the Redis instances using the service name. - Example:

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: webapp-deployment
spec:
  replicas: 3
  selector:
    matchLabels:
      app: webapp
  template:
    metadata:
      labels:
       app: webapp
    spec:
      containers:
      - name: webapp
        image: webapp:latest
        ports:
        - containerPort: 8080
        env:
        - name: REDIS HOST
          value: "redis-service"
        - name: REDIS PORT
          value: "6379"
```

4. Deploy and Test - Deploy the PersistentVolumeClaim, StatefulSet, and Deployment. - Test the web application to ensure that each pod can access its own dedicated Redis instance and session data is correctly managed Without contention. 5. Important: - StatefulSets ensure that each pod has a unique hostname and persistent storage, making them suitable for managing stateful applications. - This approach helps isolate Redis instances, preventing session data conflicts and ensuring the scalability of your web application. ,

NEW QUESTION #161

Context



Task:

Create a Deployment named expose in the existing ckad00014 namespace running 6 replicas of a Pod. Specify a single container using the ifccnct/nginx: 1.13.7 image Add an environment variable named NGINX_PORT with the value 8001 to the container then expose port 8001

Answer:

Explanation: Solution:

```
examstorrent.company.
candidate@node-1:~$ kubectl config use-context k8s
Switched to context *k8s".
candidate@node-1:-$ kubectl create deploy expose -n ckad00014
ep.yaml
candidate@node-1:-$
candidate@node-1:~$
candidate@node-1:-$
candidate@node-1:-5
candidate@node-1:-5
candidate@node-1:-$
candidate@node-1:-$
candidate@node-1:-S
candidate@node-1:-$
candidate@node-1:~5
 File Edit View Terminal Tabs Help
apiVersion: apps/v1
kind: Deployment
 etadata:
  creationTimestamp: null
  labels:
    app: expose
       expose
containers:
- image: lfccncf/nginx: 6:Xamstorre
name: nginx
ports:
- containerPort: 8901
env:
- name: 100
  name: expose
  namespace: ckad00014
  replicas: 6 selector:
     matchLabels:
  app: expose
strategy: {}
  template:
     metadata:
     spec:
  wq
File Edit View Terminal Tabs He
                                                            Story ent.
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl create deploy expose -n ckad00014 --image lfccncf/nginx:1.13.7 --dry-run=client -o yaml> d
ep.yaml
candidate@node-1:~$
candidate@node-1:-5
candidate@node-1:-5
candidate@node-1:-5
candidate@node-1:-$
candidate@node-1:-$
candidate@node-1:-$
candidate@node-1:-$
candidate@node-1:-5
candidate@node-1:-$
candidate@node-1:-S
candidate@node-1:-$ vim dep.yaml
candidate@node-1:-$ kubectl cre
                                             -f dep.yaml
deployment.apps/expose created
candidate@node-1:-$ kubectl get pods -n ckad00014
NAME READY STATUS
                                    Container atong
Container atong
Container atong
Container Centing
Container Creating
Container Creating
Container Creating
Container Creating
et deploy -n ckad00014
VAILABLE AGE
expose-85dd99d4d9-25675
                               0/1
expose-85dd99d4d9-4fhcc
expose-85dd99d4d9-fld7j
                               0/1
expose-85dd99d4d9-tt6rm
                                0/1
                                                                                65
expose-85dd99d4d9-vjd8b
                                0/1
expose-85dd99d4d9-vtzpq 0/1
candidate@node-1:~$ kubectl g
NAME READY UP-TO-DATE
                                                   AGE
15:
        6/6
expose
candidate@node-1:-$
```

NEW QUESTION # 162

You're running a MYSQL database pod in a Kubernetes cluster. You need to ensure that the pod is always running on a specific

node, regardless of node failures or maintenance events. This node has specific hardware or software requirements that the MySQL database requires. How do you achieve this?

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step):

1. Create a Node Affinity: Define a node affinity rule for your MySQL pod that specifically targets the desired node. You'll use 'nodeselector' or 'nodeAffinity' in your pod definition.

```
apiVersion: v1
kind: Pod
metadata:
  name: mysql-pod
spec:
  affinity:
    nodeAffinity:
      requiredDuringSchedulingIgnoredDuringExecution:
        nodeSelectorTerms:
          matchExpressions:
- key: "kubernetes.io/hostname"
       OUN operator: In
            values:
            - "your-specific-node-name"
  containers:
  - name: mysql
    image: mysql:latest
     containerPort: 3306
```

2. Apply the Pod Definition: Apply the YAML configuration to your Kubernetes cluster using 'kubectl apply -f mysql-pod-yamr 3. Verify Pod Placement: Use 'kubectl get pods -l app=mysqr to verify that the pod is running on the intended node (i.e., 'your-specific-node-name'). 4. Handle Node Failure: While this ensures the pod starts on the desired node, if that node fails, the pod will not be automatically rescheduled. To address this, consider using: - Node Selectors: You can combine 'nodeselector' with 'nodeAffinity' to prioritize your specific node. This ensures that the pod tries to schedule on your preferred node first- - Taint and Tolerations: You can taint the specific node with a unique key and then add a toleration to your MySQL pod to tolerate that taint. This allows the pod to be scheduled on that node and only that node. 5. Deployment for Scalability: It you need to run multiple MySQL pods, you can leverage a Deployment to manage their lifecycle. Ensure the deployment's 'spec-template' incorporates the node affinity rules. This ensures that new pods are always scheduled on the designated node. Remember: Carefully consider the implications of hard-binding pods to specific nodes. While it ensures consistency, it also reduces flexibility and can impact your overall cluster health and availability.,

NEW QUESTION #163

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