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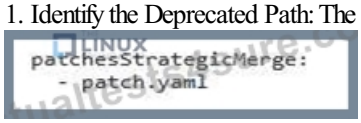
Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q60-Q65):

NEW QUESTION # 60
You have a Kustomization file that applies a patch to the 'spec-template-spec-containers-image' field of a Deployment However, you are now using a newer version of Kubernetes and have received warnings about the deprecated 'spec.template.spec' path. How can you update the Kustomization file to use the recommended API path, ensuring the patch still applies correctly?

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Identify the Deprecated Path: The original Kustomization file likely has a patch like this:



Where 'patch.yamr contains:

2. IJpdate the Patch Path: Replace the deprecated path with the recommended one: Vspec/template/spec.containers/0/image' -> /spec/template.container/0/images

3. Apply the IJpdated Kustomizatiom Re-apply the Kustomization file With the updated patch. 4. Verify the Patch: Verify that the updated Deployment now uses the new image by checking the 'spec-template.spec.contajners.image' field. This example demonstrates updating a Kustomization file to use the correct API path for a patch. It is important to regularly review Kustomization files and apply any necessary updates to avoid issues with API deprecations and ensure compatibility with the latest Kubernetes versions.,

NEW QUESTION # 61
You have a Node.js application that runs in a Kubernetes cluster. The application requires access to a MySQL database hosted externally on a different server. Due to security concerns, you cannot directly expose the database to the application pod. Describe how you can implement a network policy to enable secure communication between the application pod and the MySQL database.

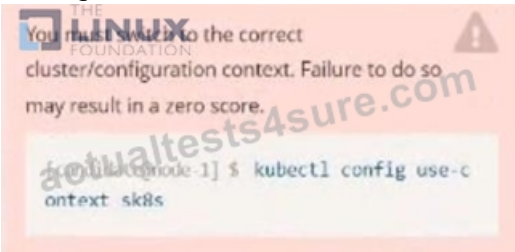
Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Create a Network Policy:
- Create a Network Policy that allows traffic only from the application pods to the MySQL database server-
- Define the podSelector' to specify the application pods that should be allowed to connect to the database.
- Use 'ingress' rules to define the allowed incoming traffic from the application pods.
- Specify the 'from' field to identify the source pods using labels or namespaces-
- Set the 'to' field to specify the target IP address or range of the MySQL database server

```
ind: NetworkPolicy
etadata:
 name: mysql-access
pec:
 podSelector:
   matchLabels:
     app: my-node-app
 ingress:
 - from:
   - podSelector:
       matchLabels:
         app: my-node-app
   to:
   - ipBlock:
       cidr: 192.168.1.100/32 # Replace with the actual MySQL server IP address
       except: []
   ports:
   - protocol: TCP
     port: 3306
```

2. Deploy the Network Policy: - Apply the Network Policy to your Kubernetes cluster using 'kubectl apply -f mysql-access.yamr 3. Configure the Application: - Configure your Node.js application to connect to the MySQL database using the IP address or hostname of the database server. - Ensure that the Node.js application has appropriate security credentials to access the database. 4. Test the Application: - Run your application and verify that it can connect to the MySQL database successfully. Note: This example provides a basic implementation. You might need to adjust the configuration based on your specific security requirements and network setup. You can further enhance the network policy by using specific ports, protocols, and other security measures as needed.,

NEW QUESTION # 62



Task:
1) Fix any API depreciation issues in the manifest file -/credible-mite/www.yaml so that this application can be deployed on cluster K8s.

2) Deploy the application specified in the updated manifest file -/credible-mite/www.yaml in namespace cobra See the solution below.

Answer:

Explanation:
Explanation
Solution:

Text Description automatically generated

```
File  Edit  View  Terminal  Tabs  Help
apiVersion: apps/v1
kind: Deployment
metadata:
  name: www-deployment
  namespace: cobra
spec:
  replicas: 3
  selector:
        matchLabels:
              app: nginx
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:
        - name: nginx
          image: "nginx:stable"
          ports:
            - containerPort: 80
          volumeMounts:
            - mountPath: /var/log/nginx
              name: logs
          env:
            - name: NGINX_ENTRYPOINT_QUIET_LOGS
              value: "1"
      volumes:
        - name: logs
          emptyDir: {}
```

Text Description automatically generated

```
eployment.apps/expose created
andidate@node-1:~$ kubectl get pods -n ckad00014
AME                      READY   STATUS              RESTARTS   AGE
xpose-85dd99d4d9-25675   0/1     ContainerCreating   0          6s
xpose-85dd99d4d9-4fhcc   0/1     ContainerCreating   0          6s
xpose-85dd99d4d9-fld7j   0/1     ContainerCreating   0          6s
xpose-85dd99d4d9-tt6rm   0/1     ContainerCreating   0          6s
xpose-85dd99d4d9-vjd8b   0/1     ContainerCreating   0          6s
xpose-85dd99d4d9-vtzpq   0/1     ContainerCreating   0          6s
andidate@node-1:~$ kubectl  get deploy -n ckad00014
AME     READY   UP-TO-DATE   AVAILABLE   AGE
xpose   6/6     6            6           15s
andidate@node-1:~$ kubectl config use-context k8s
witched to context "k8s".
andidate@node-1:~$ vim ~/credible-mite/www.yaml
andidate@node-1:~$ vim ~/credible-mite/www.yaml
andidate@node-1:~$ kubectl  apply  -f ~/credible-mite/www.yaml
eployment.apps/www-deployment created
andidate@node-1:~$ kubectl get pods -n cobra
AME                              READY   STATUS              RESTARTS   AGE
ww-deployment-d899c6b49-d6ccg   1/1     Running             0          6s
ww-deployment-d899c6b49-f796l   0/1     ContainerCreating   0          6s
ww-deployment-d899c6b49-ztfcw   0/1     ContainerCreating   0          6s
andidate@node-1:~$ kubectl get deploy -n cobra
AME             READY   UP-TO-DATE   AVAILABLE   AGE
ww-deployment   3/3     3            3           11s
andidate@node-1:~$ kubectl get pods -n cobra
AME                              READY   STATUS    RESTARTS   AGE
ww-deployment-d899c6b49-d6ccg   1/1     Running   0          14s
ww-deployment-d899c6b49-f796l   1/1     Running   0          14s
ww-deployment-d899c6b49-ztfcw   1/1     Running   0          14s
andidate@node-1:~$
```

NEW QUESTION # 63
You have a Deployment named 'my-app-deployment' that runs 3 replicas of a Spring Boot application. This application needs to access a PostgreSQL database hosted on your Kubernetes cluster. You need to create a Custom Resource Definition (CRD) to define a new resource called 'Database' to represent the PostgreSQL database instances within your cluster. This CRD should include fields for specifying the database name, username, password, and the host where the database is deployed. Further, you need to configure the 'my- app-deployment' to use the 'Database' resource to connect to the PostgreSQL instance dynamically.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :

1. Define the CRD:
- Create a YAML file named 'database.crd.yaml' to define the "Database' resource:

2. the CRD: - Apply tre 'database.cre.yaml' using 'kubectl "ply -f database.crd.ya'mr 3. Create A Database Instance: - 'eate YAML file 'd:tabaseyaml' to define a database instance

```yaml
apiVersion: example.com/v1
kind: Database
metadata:
  name: my-database
spec:
  databaseName: my-database
  username: my-user
  password: my-password
  host: my-database-service
```

4. Apply the Database Instance: - Apply the 'database.yaml' using 'kubectl apply -f database.yamr 5. IJpdate the Deployment - Update the Amy-app-deployment.yaml' to use the 'Database' resource:

```yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-app-deployment
spec:
  replicas: 3
  selector:
    matchLabels:
      app: my-app
  template:
    metadata:
      labels:
        app: my-app
    spec:
      containers:
      - name: my-app
        image: my-app-image
        env:
        - name: DATABASE_NAME
          valueFrom:
            fieldRef:
              fieldPath: spec.username
              apiVersion: example.com/v1
        - name: DATABASE_PASSWORD
          valueFrom:
            fieldRef:
              fieldPath: spec.password
              apiVersion: example.com/v1
        - name: DATABASE_HOST
          valueFrom:
            fieldRef:
              fieldPath: spec.host
              apiVersion: example.com/v1
```

6. Apply the Updated Deployment: - Apply the updated 'my-app-deployment.yamr using 'kubectl apply -f my-app-deployment.yamr 7. Verify the Configuration: - Use 'kubectl get databases to check the database instance. - Use 'kubectl describe pod -l app=my-app' to verify that the pods are using the values from the 'Database' resource tor connecting to the PostgreSQL database. This approach demonstrates how to utilize CRDs to define custom resources in Kubernetes and how to connect applications dynamically to these resources. The CRO ensures proper definition of the database resource, while the deployment utilizes the 'fieldRef mechanism to access and retrieve database connection details directly from the CRD, enabling dynamic configuration and simplification of application setup.,

NEW QUESTION # 64

You need to configure a PodSecurityPolicy to restrict tne capabilities of pods running in your Kubernetes cluster. You want to create a policy that allows pods to use only specific capabilities and prevent them from accessing host resources.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Create a P0dSecurityP01icy:
- Create a PodSecurityPolicy YAML configuration file:

```
apiVersion: policy/v1beta1
kind: PodSecurityPolicy
metadata:
  name: restricted-pod-policy
spec:
  # Allow only specific capabilities
  allowedCapabilities:
  - NET_BIND_SERVICE
  # Disallow access to host resources
  hostNetwork: false
  hostPID: false
  hostIPC: false
  # Set resource requirements
  runAsUser:
    rule: "MustRunAs"
    # Run as non-root user
    ranges:
    - min: 1000
      max: 65535
  # Allow specific privileged containers
  privileged: false
  # Control access to the host filesystem
  fsGroup:
    rule: "MustRunAs"
    ranges:
    - min: 1000
      max: 65535
  # Control access to the host network
  seLinux:
    rule: "RunAsAny"
    ranges:
    - min: 1000
      max: 65535
  # Control access to host processes
  volumes:
  - 'configMap'
  - 'emptyDir'
  - 'projected'
  - 'secret'
  - 'persistentVolumeClaim'
  - 'hostPath'
  - 'downwardAPI'
```


2. Apply the PodSecurityPolicy: - Apply the PodSecurityPolicy configuration to your Kubernetes cluster: basn kubectl apply -f restricted-pod-policy-yaml 3. Bind the Policy to ServiceAccount: - Create a RoleBinding or ClusterRoleBinding to bind the

PodSecurityPolicy to a specific ServiceAccount or all users. - For example, to bind it to a ServiceAccount:

```
apiVersion: rbac.authorization.k8s.io/v1
kind: RoleBinding
metadata:
  name: restricted-pod-policy-binding
  namespace: my-namespace
roleRef:
  apiGroup: policy
  kind: PodSecurityPolicy
  name: restricted-pod-policy
subjects:
- kind: ServiceAccount
  name: my-service-account
  namespace: my-namespace
```

4. Test tne Policy: - Create a pod using the ServiceAccount that has the PodSecurityPolicy applied. - Verify that tne pod cannot access host resources or use unauthorized capabilities.

NEW QUESTION # 65

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