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Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q30-Q35):

NEW QUESTION # 30



Context

As a Kubernetes application developer you will often find yourself needing to update a running application.

Task

Please complete the following:

- * Update the app deployment in the kdpd00202 namespace with a maxSurge of 5% and a maxUnavailable of 2%
- * Perform a rolling update of the web1 deployment, changing the Ifcncf/ngmx image version to 1.13
- * Roll back the app deployment to the previous version

Answer:

Explanation:

See the solution below.

Explanation

Solution:



```
uid: 1dfa2527-5c61-46a9-8dd3-e24643d3ce14
spec:
  progressDeadlineSeconds: 600
  replicas: 10
  revisionHistoryLimit: 10
  selector:
    matchLabels:
      app: nginx
  strategy:
    rollingUpdate:
      maxSurge: 5%
      maxUnavailable: 2
    type: RollingUpdate
  template:
    metadata:
      creationTimestamp: null
      labels:
        app: nginx
    spec:
      containers:
      - image: lfccncf/nginx:1.13
        imagePullPolicy: IfNotPresent
        name: nginx
        ports:
        - containerPort: 80
          protocol: TCP
:wg!
```

```
student@node-1:~$ kubectl edit deployment app -n kdpd00202
deployment.apps/app edited
student@node-1:~$ kubectl rollout status deployment app -n kdpd00202
Waiting for deployment "app" rollout to finish: 6 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 7 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 7 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 7 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 8 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 8 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 8 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 9 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 9 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 9 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 1 old replicas are pending termination...
Waiting for deployment "app" rollout to finish: 8 of 10 updated replicas are available...
Waiting for deployment "app" rollout to finish: 9 of 10 updated replicas are available...
deployment "app" successfully rolled out
student@node-1:~$ kubectl rollout undo deployment app -n kdpd00202
deployment.apps/app rolled back
student@node-1:~$ kubectl rollout status deployment app -n kdpd00202
```

```
student@node-1:~$ kubectl rollout status deployment app -n kdpd00202
Waiting for deployment "app" rollout to finish: 6 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 6 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 6 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 7 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 7 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 9 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 9 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 9 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 1 old replicas are pending termination...
Waiting for deployment "app" rollout to finish: 1 old replicas are pending termination...
Waiting for deployment "app" rollout to finish: 1 old replicas are pending termination...
Waiting for deployment "app" rollout to finish: 8 of 10 updated replicas are available...
Waiting for deployment "app" rollout to finish: 9 of 10 updated replicas are available...
deployment "app" successfully rolled out
student@node-1:~$
```

NEW QUESTION # 31

Refer to Exhibit.



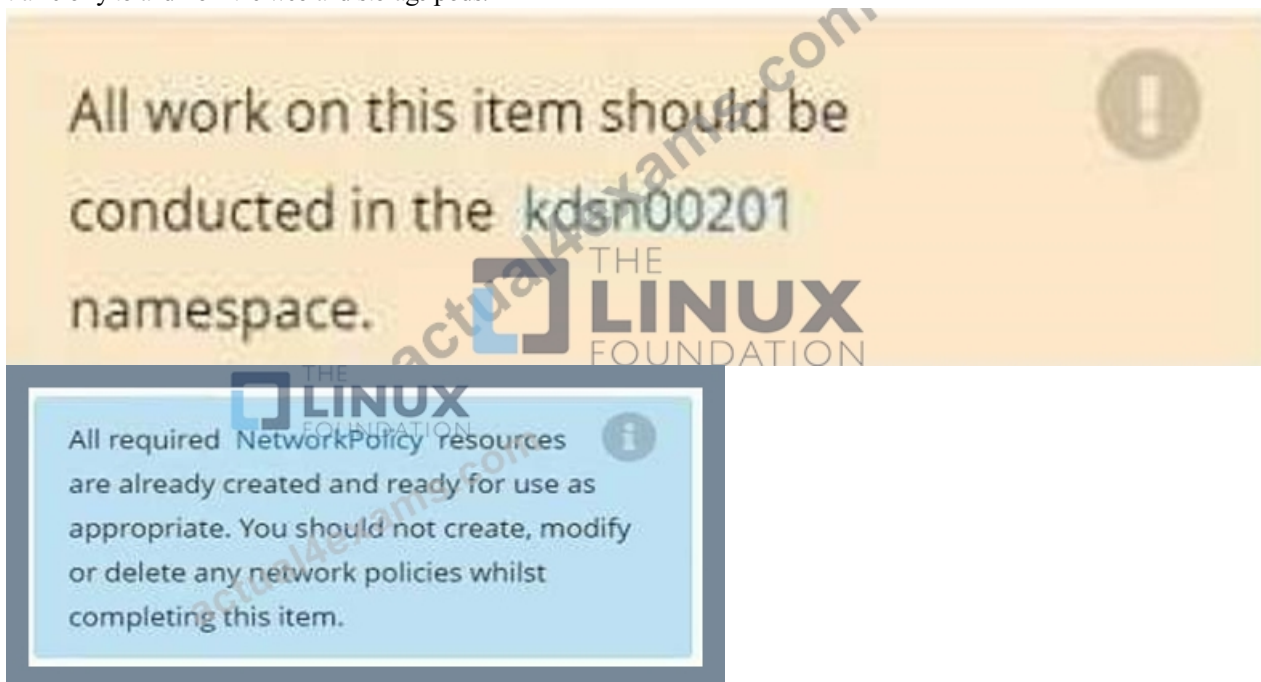
Set Configuration Context:

```
[student@node-1] $ | kubectl
```

```
Config use-context nk8s
```

Task

You have rolled out a new pod to your infrastructure and now you need to allow it to communicate with the web and storage pods but nothing else. Given the running pod kdsn00201 -newpod edit it to use a network policy that will allow it to send and receive traffic only to and from the web and storage pods.



Answer:

Explanation:

To allow a pod to send and receive traffic only to and from specific pods, you can use network policies in Kubernetes.

First, you will need to create a network policy that defines the allowed traffic. You can create a network policy yaml file with the following rules:

```
apiVersion: networking.k8s.io/v1
```

```
kind: NetworkPolicy
```

```
metadata:
```

```
name: newpod-network-policy
```

```
namespace: default
```

```
spec:
```

```
podSelector:
```

```
matchLabels:
```

```
app: kdsn00201-newpod
```

```
ingress:
```

```
- from:
```


- podSelector:
matchLabels:
app: web
- podSelector:
matchLabels:
app: storage

This policy will only allow incoming traffic to the pod with the label app=kdsn00201-newpod from pods with the label app=web or app=storage. If you have different labels on your web and storage pods please update the matchLabels accordingly.

Once you have created the network policy, you can apply it to the cluster by running the following command:

kubectl apply -f <network-policy-file>.yaml

This will apply the network policy to the cluster, and the newpod will only be able to send and receive traffic to and from the web and storage pods.

Please note that, NetworkPolicy resource is not available by default, you need to enable the NetworkPolicy feature on your Kubernetes cluster. This feature is enabled by default on some clusters and must be explicitly enabled on others. You can check if NetworkPolicy is available by running the command `kubectl api-versions | grep networking`. Also, you need to ensure that the pods that you want to allow traffic to and from are running on the same namespace.

NEW QUESTION # 32

You are running a web application in a Kubernetes cluster. You have a deployment named 'web- app' with two replicas. You need to implement a Network Policy that allows only traffic from pods with the label app: database' to access the 'web-app' deployment on port 8080. You also need to block all other traffic to the 'web-app' deployment.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Create the Network Policy:

- Create a YAML file named 'web-app-network-policy.yaml' with the following content:

```
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: web-app-network-policy
  namespace: default # Replace with your namespace
spec:
  podSelector:
    matchLabels:
      app: web-app
  ingress:
    - from:
        - podSelector:
            matchLabels:
              app: database
      ports:
        - protocol: TCP
          port: 8080
    - to:
        - ipBlock:
            cidr: 0.0.0.0/0
      ports:
        - protocol: TCP
          port: 8080
```

2. Apply the Network Policy: - Apply the Network Policy to your cluster: `bash kubectl apply -f web-app-network-policy.yaml` 3. Verify the Network Policy: - Verify that the Network Policy has been applied correctly by listing the Network Policies in your namespace: `bash kubectl get networkpolicies -n default` # Replace with your namespace You should see the 'web-app-network-policy' listed. 4. Test the Network Policy: - From a pod with the label 'app: database', try to access the 'web-app' deployment on port 8080. This should be successful. - From any other pod, try to access the 'web-app' deployment on port 8080. This should be blocked. - The 'podSelector' in the Network Policy specifies that it applies to pods with the label 'app: web-app'. - The 'ingress' section defines the allowed incoming traffic. In this case, it allows traffic from pods with the label 'app: database' on port 8080. - The 'egress' section defines the allowed outgoing traffic. In this case, it allows all outgoing traffic except on port 8080. This ensures that only pods with the 'app: database' label can access the 'web-app' deployment on port 8080. Note: - You may need to update the 'namespace' in the Network Policy YAML file to match the namespace where your 'web-app' deployment is running. - Make sure that pods with the label 'app: database' are allowed to access the 'web-app' deployment by other means, such as Service or Ingress, if needed.,

NEW QUESTION # 33

You are working on a Kubernetes application that requires ephemeral storage. The application data needs to be stored within the pod's container and should be deleted when the pod is deleted. How can you achieve this using ephemeral storage in Kubernetes?

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Create a Deployment with an EmptyDir Volume:

- Define an 'EmptyDir' volume in the Deployment YAML.
- Specify the volume mount path Within the container.
- Example:



```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-app
spec:
  replicas: 1
  selector:
    matchLabels:
      app: my-app
  template:
    metadata:
      labels:
        app: my-app
    spec:
      containers:
        - name: my-app-container
          image: my-app-image:latest
          volumeMounts:
            - name: my-data
              mountPath: /data
      volumes:
        - name: my-data
          emptyDir: {}
```

2. Create the Deployment: - Apply the Deployment YAML using 'kubectl apply -f my-app-deployment.yaml' 3. Verify the Deployment - Check the status of the Deployment using 'kubectl get deployments my-app' - Verify that the Pod is running and using the EmptyDir volume. 4. Test Ephemeral Storage Behavior: - Write data to the 'data' directory within the container - Delete the pod. - Create a new pod from the same Deployment. - The data written to the 'data' directory will no longer be present in the new pod, as the volume is ephemeral and is deleted when the pod is deleted.

NEW QUESTION # 34

You are developing a new application that requires access to multiple services running in different namespaces. To simplify the configuration and ensure that the application can easily discover these services, you want to use a ServiceAccount with a cluster-scoped Role that grants access to services across namespaces.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Create a ClusterRole:

- Create a ClusterRole that grants access to the required services in all namespaces

```
apiVersion: rbac.authorization.k8s.io/v1
kind: ClusterRole
metadata:
  name: access-services-cluster-role
rules:
- apiGroups: [""]
  resources: ["services"]
  verbs: ["get", "list", "watch"]
```

2. Create a ClusterRoleBinding: - Create a ClusterRoleBinding to bind the ClusterRole to the ServiceAccount:

```
apiVersion: rbac.authorization.k8s.io/v1
kind: ClusterRoleBinding
metadata:
  name: access-services-cluster-role-binding
roleRef:
  apiGroup: rbac.authorization.k8s.io
  kind: ClusterRole
  name: access-services-cluster-role
subjects:
- kind: ServiceAccount
  name: my-app-sa
  namespace: my-app-namespace
```

3. Create a ServiceAccount - Create a ServiceAccount in the namespace where the application is deployed:

```
apiVersion: v1
kind: ServiceAccount
metadata:
  name: my-app-sa
  namespace: my-app-namespace
```

4. Apply the Configuration: - Apply the ClusterRole, ClusterRoleBinding, and ServiceAccount using 'kubectl apply -f: bash kubectl apply -f access-services-cluster-role.yaml kubectl apply -f access-services-cluster-role-binding.yaml kubectl apply -f my-app-sa.yaml 5. Configure the Application: - Ensure that the applications pod is using the created ServiceAccount

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-app
  namespace: my-app-namespace
spec:
  replicas: 1
  selector:
    matchLabels:
      app: my-app
  template:
    metadata:
      labels:
        app: my-app
    spec:
      serviceAccountName: my-app-sa
      containers:
      - name: my-app
        image: my-app-image:latest
```

6. Test the Application: - Run the application and verify that it can successfully access the services in different namespaces. ,

NEW QUESTION # 35

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