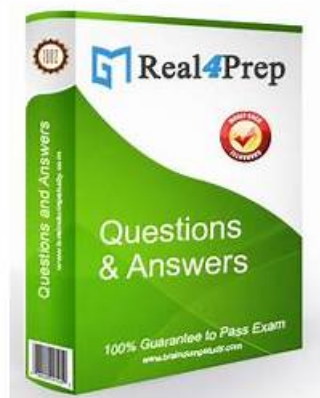


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Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam Sample Questions (Q57-Q62):

NEW QUESTION # 57

Check the Image version of nginx-dev pod using jsonpath

Answer:

Explanation:

```
kubectl get po nginx-dev -o
jsonpath='{.spec.containers[].image}' {"\n"}
```

NEW QUESTION # 58

Create 2 nginx image pods in which one of them is labelled with env=prod and another one labelled with env=dev and verify the same.

- A. `kubectl run --generator=run-pod/v1 --image=nginx -- labels=env=prod nginx-prod --dry-run -o yaml > nginx-prodpod.yaml` Now, edit `nginx-prod-pod.yaml` file and remove entries like `"creationTimestamp: null"` `"dnsPolicy: ClusterFirst"`
`vim nginx-prod-pod.yaml` `apiVersion: v1 kind: Pod metadata:`
`labels:`
`env: prod`
`name: nginx-prod`
`spec:`
`containers:`
`- image: nginx`
`name: nginx-prod`
`restartPolicy: Always`
`# kubectl create -f nginx-prod-pod.yaml`
`kubectl run --generator=run-pod/v1 --image=nginx --`
`labels=env=dev nginx-dev --dry-run -o yaml > nginx-dev-pod.yaml`
`apiVersion: v1`
`kind: Pod`
`metadata:`
`labels:`
`env: dev`
`name: nginx-dev`
`spec:`
`containers:`
`- image: nginx`
`name: nginx-dev`
`restartPolicy: Always`
`# kubectl create -f nginx-prod-dev.yaml`
Verify :

```
kubectrl get po --show-labels
```

```
kubectrl get po -l env=prod
```

```
kubectrl get po -l env=dev
```

- B.

```
kubectrl run --generator=run-pod/v1 --image=nginx -- labels=env=prod nginx-prod --dry-run -o yaml > nginx-prodprod.yaml
```

 Now, edit `nginx-prod-pod.yaml` file and remove entries like `"creationTimestamp: null"` `"dnsPolicy: ClusterFirst"`
`vim nginx-prod-pod.yaml` `apiVersion: v1 kind: Pod metadata:`
`labels:`
`env: prod`
`name: nginx-prod`
`spec:`
`containers:`
`- image: nginx`
`name: nginx-prod`
`restartPolicy: Always`
`# kubectrl create -f nginx-prod-pod.yaml`
`kubectrl run --generator=run-pod/v1 --image=nginx --`
`labels=env=dev nginx-dev --dry-run -o yaml > nginx-dev-pod.yaml`
`apiVersion: v1`
`kind: Pod`
`metadata:`
`- image: nginx`
`name: nginx-dev`
`restartPolicy: Always`
`# kubectrl create -f nginx-prod-dev.yaml`
`Verify :`
`kubectrl get po --show-labels`
`kubectrl get po -l env=dev`

Answer: A

NEW QUESTION # 59

Get the pods with labels `env=dev` and `env=prod` and output the labels as well

Answer:

Explanation:

```
kubectrl get pods -l 'env in (dev,prod)' --show-labels
```

NEW QUESTION # 60

You have a Deployment named 'frontend-deployment' with 5 replicas of a frontend container. You need to implement a rolling update strategy that allows for a maximum of 2 pods to be unavailable at any given time. You also want to ensure that the update process is completed within a specified timeout of 8 minutes. If the update fails to complete within the timeout, the deployment should revert to the previous version. Additionally, you want to configure a 'post-start' hook for the frontend container that executes a health check script to verify the application's readiness before it starts accepting traffic.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Update the Deployment YAML:

- Update the 'replicas' to 5.

- Define 'maxUnavailable: 2' and 'maxSurge: 0' in the 'strategy.rollingUpdate' section to control the rolling update process.

- Configure a 'strategy.type' to 'RollingUpdate' to trigger a rolling update when the deployment is updated.

- Set 'Always' to ensure that the new image is pulled even if it exists in the pod's local cache.

- Add a 'spec.progressDeadlineSeconds: 480' to set a timeout of 8 minutes for the update process.

- Add a 'spec.template.spec.containers[0].lifecycle.postStart' hook to define a script that executes a health check script before the

container starts accepting traffic.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: frontend-deployment
spec:
  replicas: 5
  selector:
    matchLabels:
      app: frontend
  template:
    metadata:
      labels:
        app: frontend
    spec:
      containers:
        - name: frontend
          image: my-org/frontend:latest
          imagePullPolicy: Always
          lifecycle:
            postStart:
              exec:
                command: ["sh", "-c", "./health-check.sh"]
  strategy:
    type: RollingUpdate
    rollingUpdate:
      maxUnavailable: 2
      maxSurge: 0
  progressDeadlineSeconds: 480
```

2. Create the Deployment: - Apply the updated YAML file using 'kubectl apply -f frontend-deployment.yaml'
3. Verify the Deployment: - Check the status of the deployment using 'kubectl get deployments frontend-deployment' to confirm the rollout and updated replica count.
4. Trigger the Automatic Update: - Push a new image to the 'my-org/frontend:latest' Docker Hub repository.
5. Monitor the Deployment: - Use 'kubectl get pods -l app=frontend' to monitor the pod updates during the rolling update process.
6. Observe Rollback if Timeout Exceeds: - If the update process takes longer than 8 minutes to complete, the deployment will be rolled back to the previous version. This can be observed using 'kubectl describe deployment frontend-deployment' and checking the 'updatedReplicas' and 'availableReplicas' fields.,

NEW QUESTION # 61

Score: 7%

Set configuration context: 

```
[student@node-1 ~]$ kubectl config use-context h
k8s
```



Task

Create a new NetworkPolicy named allow-port-from-namespace in the existing namespace echo. Ensure that the new NetworkPolicy allows Pods in namespace my-app to connect to port 9000 of Pods in namespace echo.

Further ensure that the new NetworkPolicy:

- * does not allow access to Pods, which don't listen on port 9000
- * does not allow access from Pods, which are not in namespace my-app

Answer:

Explanation:

Solution:

```
#network.yaml
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: allow-port-from-namespace
  namespace: internal
spec:
  podSelector:
    matchLabels: {
    }
  policyTypes:
  - Ingress
  ingress:
  - from:
    - podSelector: {
    }
  ports:
  - protocol: TCP
    port: 8080
#spec.podSelector namespace pod
kubectl create -f network.yaml
```

NEW QUESTION # 62

.....

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