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The CKAD Exam is a hands-on, performance-based exam that tests the candidate's ability to deploy, configure, and manage Kubernetes applications. CKAD exam is designed to be challenging and comprehensive, covering all aspects of Kubernetes application development, including Kubernetes basics, application design and deployment, troubleshooting, and automation.

Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q153-Q158):

NEW QUESTION # 153

You have a Deployment named 'my-app-deployment' running a Flask application. You need to configure a rolling update strategy with a maximum of one pod unavailable at any time. You also want to trigger an automatic update whenever a new image is pushed to the Docker Hub repository. Additionally, you want to analyze the application logs during the update process to ensure everything

is working smoothly. How would you achieve this?

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Configure Deployment with Rolling Update:

- Update the 'my-app-deployment' Deployment configuration to include the following:
- 'replicas': Set to 2 to ensure a rolling update with a maximum of one unavailable pod.
- 'maxUnavailable: 1': This specifies that a maximum of one pod can be unavailable during the update.
- 'maxSurge: 0': This ensures no new pods are created beyond the desired replicas.
- 'imagePullPolicy: Always': This forces the pods to pull the latest image from the repository.
- 'strategy.type: RollingUpdate': Specifies the rolling update strategy.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-app-deployment
spec:
  replicas: 2
  selector:
    matchLabels:
      app: my-app
  template:
    metadata:
      labels:
        app: my-app
    spec:
      containers:
        - name: my-app
          image: my-app-image:latest
          imagePullPolicy: Always
      strategy:
        type: RollingUpdate
        rollingUpdate:
          maxUnavailable: 1
          maxSurge: 0
```

2. Apply Deployment Configuration: - Apply the updated YAML file to your cluster: 'kubectl apply -f my-app-deployment.yaml' 3. Analyze Application Logs: - To monitor the logs of your Flask application, utilize a tool like 'kubectl logs' or a dedicated logging service like Fluentd or Elasticsearch. - Example using 'kubectl logs' bash kubectl logs -f my-app-deployment-pod-name - During the rolling update, closely watch the logs for errors or warnings to ensure smooth transitions. 4. Trigger an Automatic Update: - Push a new image with updates to the 'my-app-image:latest' Docker Hub repository. 5. Monitor the Deployment: - Use 'kubectl get pods -l app=my-app' to monitor the pods during the rolling update. 6. Verify Deployment Status: - Check the status of the Deployment using 'kubectl describe deployment my-app-deployment' . The 'updatedReplicas' field should match the 'replicas' field, indicating a successful update.

NEW QUESTION # 154

You have a Deployment running with a specific image tag, and you want to roll out a new version with a different image tag- However, you want to ensure that the update process is gradual, and only one pod is updated at a time. Additionally, you need to monitor the performance metrics of the application during the update, and if the performance degrades significantly, you need to rollback to the previous version How would you implement this using Kustomize and other Kubernetes features?

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Create a customization file:

resources :

- deployment.yaml

2. Create a deployment-yaml file:

```

apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-deployment
spec:
  replicas: 3
  selector:
    matchLabels:
      app: nginx
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:
      - name: nginx
        image: example/nginx:v1
        resources:
          requests:
            cpu: "50m"
            memory: "100Mi"
        livenessProbe:
          httpGet:
            path: /healthz
            port: 80
          initialDelaySeconds: 15
          periodSeconds: 20
        readinessProbe:
          httpGet:
            path: /healthz
            port: 80
          initialDelaySeconds: 5
          periodSeconds: 10
      imagePullSecrets:
      - name: myregistrykey

```

3. Configure a rolling update strategy: - Edit the 'deployment.yaml' file and add the following to the 'spec-strategy' section:

```

strategy:
  type: RollingUpdate
  rollingUpdates:
    maxSurge: 1
    maxUnavailable: 1

```

4. Set up monitoring with Prometheus and Grafana: - Install Prometheus and Grafana on your Kubernetes cluster. - Configure Prometheus to scrape metrics from your application pods. - Create Grafana dashboards to visualize the relevant metrics. 5. Create an alert in Prometheus: - Define an alert that triggers if the application's performance degrades significantly - This alert should be configured to send notifications to your team. 6. Create a rollback mechanism: - Use a script or a tool like 'kubectl rollout undo' to rollback the deployment to the previous version if the performance alert is triggered. 7. Update the deployment with the new image tag: - Edit the 'deployment.yaml' file and change the 'image' to 'example/nginx:v2'. 8. Apply the changes to your Kubernetes cluster: `bash kubectl apply -f deployment.yaml` - The 'maxSurge' and 'maxUnavailable' settings in the 'rollingUpdate' strategy control the maximum number of pods that can be added or removed during the update process. - Prometheus and Grafana provide a way to monitor the performance metrics of your application. - The Prometheus alert helps you identify if the performance degrades significantly during the update process. - The rollback mechanism allows you to revert to the previous version if the performance alert is triggered. - This setup ensures a gradual update process and provides a mechanism to mitigate potential performance issues.

NEW QUESTION # 155

Context

Anytime a team needs to run a container on Kubernetes they will need to define a pod within which to run the container.

Task

Please complete the following:

- * Create a YAML formatted pod manifest

/opt/KDPD00101/pod1.yml to create a pod named app1 that runs a container named app1cont using image lfcncf/arg-output with these command line arguments: -lines 56 -F

- * Create the pod with the kubectl command using the YAML file created in the previous step

- * When the pod is running display summary data about the pod in JSON format using the kubectl command and redirect the output to a file named /opt/KDPD00101/out1.json

- * All of the files you need to work with have been created, empty, for your convenience



Answer:

Explanation:

Solution:

```
student@node-1:~$ kubectl run app1 --image=lfcncf/arg-output --dry-run=client -o yaml > /opt/KDPD00101/pod1.yml
student@node-1:~$ vim /opt/KDPD00101/pod1.yml
```

Readme Web Terminal

THE LINUX FOUNDATION

```
apiVersion: v1
kind: Pod
metadata:
  creationTimestamp: null
  labels:
    run: app1
    name: app1
spec:
  containers:
  - image: lfcncf/arg-output
    name: app1
    resources: {}
  dnsPolicy: ClusterFirst
  restartPolicy: Always
status: {}
```

"/opt/KDPD00101/pod1.yml" 15L, 242C 3,1 All


```

Readme Web Terminal
nginx-configmap 1/1 Running 0 6m
nginx-secret 1/1 Running 0 11s
poller 1/1 Running 0 6h
student@node-1:~$ kubectl get pods
NAME READY STATUS RESTARTS AGE
app1 1/1 Running 0 26s
counter 1/1 Running 0 5m5s
liveness-http 1/1 Running 0 6h50m
nginx-101 1/1 Running 0 6h51m
nginx-configmap 1/1 Running 0 6m42s
nginx-secret 1/1 Running 0 12m
poller 1/1 Running 0 6h51m
student@node-1:~$ kubectl delete pod app1
pod "app1" deleted
student@node-1:~$ vim /opt/KDPD00101/pod1.yml
student@node-1:~$ kubectl create -f /opt/KDPD00101/pod1.yml
pod/app1 created
student@node-1:~$ kubectl get pods
NAME READY STATUS RESTARTS AGE
app1 1/1 Running 0 20s
counter 1/1 Running 0 6m57s
liveness-http 1/1 Running 0 6h52m
nginx-101 1/1 Running 0 6h53m
nginx-configmap 1/1 Running 0 8m34s
nginx-secret 1/1 Running 0 14m
poller 1/1 Running 0 6h53m
student@node-1:~$ kubectl get pod app1 -o json >

```

```

Readme Web Terminal THE LINUX FOUNDATION
poller 1/1 Running 0 6h51m
student@node-1:~$ kubectl get pods
NAME READY STATUS RESTARTS AGE
app1 1/1 Running 0 26s
counter 1/1 Running 0 5m5s
liveness-http 1/1 Running 0 6h50m
nginx-101 1/1 Running 0 6h51m
nginx-configmap 1/1 Running 0 6m42s
nginx-secret 1/1 Running 0 12m
poller 1/1 Running 0 6h51m
student@node-1:~$ kubectl delete pod app1
pod "app1" deleted
student@node-1:~$ vim /opt/KDPD00101/pod1.yml
student@node-1:~$ kubectl create -f /opt/KDPD00101/pod1.yml
pod/app1 created
student@node-1:~$ kubectl get pods
NAME READY STATUS RESTARTS AGE
app1 1/1 Running 0 20s
counter 1/1 Running 0 6m57s
liveness-http 1/1 Running 0 6h52m
nginx-101 1/1 Running 0 6h53m
nginx-configmap 1/1 Running 0 8m34s
nginx-secret 1/1 Running 0 14m
poller 1/1 Running 0 6h53m
student@node-1:~$ kubectl get pod app1 -o json > /opt/KDPD00101/out1.json
student@node-1:~$

```

NEW QUESTION # 156

You are building a microservice called 'order-service' that handles order processing. You need to configure a SecurityContext for the 'order-service' container that ensures it can access the network to communicate With other services and access specific hostPath volumes, but it should not have root privileges.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Define the SecurityContext:

- Create a 'securityContext' section within the 'spec.template.spec.containers' block for your 'order-service' container.
- Set 'runAsUser' to a non-root UID (e.g., 1001) to prevent running as the root user-
- Set 'allowPrivilegeEscalation' to 'false' to prevent the container from escalating its privileges.
- Set 'capabilities' to an empty array (so) to disable any additional capabilities.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: order-service
spec:
  replicas: 1
  selector:
    matchLabels:
      app: order-service
  template:
    metadata:
      labels:
        app: order-service
    spec:
      containers:
        - name: order-service
          image: your-image:latest
          securityContext:
            runAsUser: 1001
            allowPrivilegeEscalation: false
            capabilities:
              drop: []
          volumeMounts:
            - name: order-data
              mountPath: /data
              readOnly: false
            - name: config-volume
              mountPath: /config
              readOnly: true
          volumes:
            - name: order-data
              hostPath:
                path: /data
            - name: config-volume
              hostPath:
                path: /config
```

2. Mount HostPath Volumes: - Define 'volumeMounts' for the required hostPath volumes. - Specify the mount path within the container ('/data' and '/config' in this example) and the volume name. - Define corresponding 'volumes' with the 'hostPath' type, specifying the source path on the host and the volume name. 3. Create the Deployment: - Apply the Deployment YAML file using 'kubectl apply -f order-service-deployment-yaml' - The 'securityContext' restricts the container's access to the host system's resources and prevents privilege escalation. - Setting 'runAsUser' to a non-root UID ensures that the container runs as a non-root user - 'allowPrivilegeEscalation' prevents the container from elevating its privileges, even if it has the necessary capabilities. - The 'capabilities' section allows you to explicitly define which capabilities the container should have. In this case, an empty array disables all additional capabilities, restricting the container's potential actions. - The 'volumeMounts' define how hostPath volumes are mounted within the container, providing access to specific directories on the host system. This configuration ensures that the 'order-service' container can access specific hostPath volumes and the network for communication with other services without running as root and without any additional capabilities, enhancing security.

NEW QUESTION # 157

Context

Anytime a team needs to run a container on Kubernetes they will need to define a pod within which to run the container.

Task

Please complete the following:

* Create a YAML formatted pod manifest

/opt/KDPD00101/pod1.yml to create a pod named app1 that runs a container named app1cont using image Ifcnctf/arg-output with these command line arguments: -lines 56 -F

* Create the pod with the kubectl command using the YAML file created in the previous step

* When the pod is running display summary data about the pod in JSON format using the kubectl command and redirect the output to a file named /opt/KDPD00101/out1.json

* All of the files you need to work with have been created, empty, for your convenience

When creating your pod, you do not need to specify a container command, only args.

- A. Solution:

```
student@node-1:~$ kubectl run appl --image=lfcncf/arg-output --dry-run=client -o yaml > /opt/KDPD00101/pod1.yml
student@node-1:~$ vim /opt/KDPD00101/pod1.yml
```

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```
apiVersion: v1
kind: Pod
metadata:
  creationTimestamp: null
  labels:
    run: appl
    name: appl
spec:
  containers:
  - image: lfcncf/arg-output
    name: appl
    resources: {}
  dnsPolicy: ClusterFirst
  restartPolicy: Always
status: {}
```

"/opt/KDPD00101/pod1.yml" 15L, 242C 3,1 All

Readme Web Terminal THE LINUX FOUNDATION

```
apiVersion: v1
kind: Pod
metadata:
  labels:
    run: appl
    name: appl
spec:
  containers:
  - image: lfcncf/arg-output
    name: appl
    args: ["--lines", "56", "-s"]
```

11,30 All


```

pod/app1 created
student@node-1:~$ kubectl get pods
NAME          READY   STATUS             RESTARTS   AGE
app1          0/1     ContainerCreating   0           5s
counter       1/1     Running             0           4m44s
liveness-http 1/1     Running             0           6h50m
nginx-101     1/1     Running             0           6h51m
nginx-configmap 1/1     Running             0           6m21s
nginx-secret  1/1     Running             0           11m
poller        1/1     Running             0           6h51m
student@node-1:~$ kubectl get pods
NAME          READY   STATUS    RESTARTS   AGE
app1          1/1     Running   0           26s
counter       1/1     Running   0           5m5s
liveness-http 1/1     Running   0           6h50m
nginx-101     1/1     Running   0           6h51m
nginx-configmap 1/1     Running   0           6m42s
nginx-secret  1/1     Running   0           12m
poller        1/1     Running   0           6h51m
student@node-1:~$ kubectl delete pod app1
pod "app1" deleted
student@node-1:~$ vim /opt/KDPD00101/pod1.yml

```

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Web Terminal

```

nginx-configmap 1/1 Running 0 6m
nginx-secret 1/1 Running 0 11
poller 1/1 Running 0 6h
student@node-1:~$ kubectl get pods
NAME          READY   STATUS    RESTARTS   AGE
app1          1/1     Running   0           26s
counter       1/1     Running   0           5m5s
liveness-http 1/1     Running   0           6h50m
nginx-101     1/1     Running   0           6h51m
nginx-configmap 1/1     Running   0           6m42s
nginx-secret  1/1     Running   0           12m
poller        1/1     Running   0           6h51m
student@node-1:~$ kubectl delete pod app1
pod "app1" deleted
student@node-1:~$ vim /opt/KDPD00101/pod1.yml
student@node-1:~$ kubectl create -f /opt/KDPD00101/pod1.yml
pod/app1 created
student@node-1:~$ kubectl get pods
NAME          READY   STATUS    RESTARTS   AGE
app1          1/1     Running   0           20s
counter       1/1     Running   0           6m57s
liveness-http 1/1     Running   0           6h52m
nginx-101     1/1     Running   0           6h53m
nginx-configmap 1/1     Running   0           8m34s
nginx-secret  1/1     Running   0           14m
poller        1/1     Running   0           6h53m
student@node-1:~$ kubectl get pod app1 -o json >

```



```

apiVersion: v1
kind: Pod
metadata:
  labels:
    run: app1
    name: app1
spec:
  containers:
  - image: lfccncf/arg-output
    name: app1
    args: ["---lines", "56", "-f"]

```

```

pod/app1 created
student@node-1:~$ kubectl get pods
NAME          READY   STATUS             RESTARTS   AGE
app1          0/1     ContainerCreating   0           5s
counter       1/1     Running             0           4m44s
liveness-http 1/1     Running             0           6h50m
nginx-101     1/1     Running             0           6h51m
nginx-configmap 1/1     Running             0           6m21s
nginx-secret  1/1     Running             0           11m
poller        1/1     Running             0           6h51m
student@node-1:~$ kubectl get pods
NAME          READY   STATUS             RESTARTS   AGE
app1          1/1     Running            0           26s
counter       1/1     Running             0           5m5s
liveness-http 1/1     Running             0           6h50m
nginx-101     1/1     Running             0           6h51m
nginx-configmap 1/1     Running             0           6m42s
nginx-secret  1/1     Running             0           12m
poller        1/1     Running             0           6h51m
student@node-1:~$ kubectl delete pod app1
pod "app1" deleted
student@node-1:~$ vim /opt/KDPD00101/pod1.yml

```

```

poller        1/1     Running             0           6h51m
student@node-1:~$ kubectl get pods
NAME          READY   STATUS             RESTARTS   AGE
app1          1/1     Running            0           26s
counter       1/1     Running             0           5m5s
liveness-http 1/1     Running             0           6h50m
nginx-101     1/1     Running             0           6h51m
nginx-configmap 1/1     Running             0           6m42s
nginx-secret  1/1     Running             0           12m
poller        1/1     Running             0           6h51m
student@node-1:~$ kubectl delete pod app1
pod "app1" deleted
student@node-1:~$ vim /opt/KDPD00101/pod1.yml
student@node-1:~$ kubectl create -f /opt/KDPD00101/pod1.yml
pod/app1 created
student@node-1:~$ kubectl get pods
NAME          READY   STATUS             RESTARTS   AGE
app1          1/1     Running            0           20s
counter       1/1     Running             0           6m57s
liveness-http 1/1     Running             0           6h52m
nginx-101     1/1     Running             0           6h53m
nginx-configmap 1/1     Running             0           8m34s
nginx-secret  1/1     Running             0           14m
poller        1/1     Running             0           6h53m
student@node-1:~$ kubectl get pod app1 -o json > /opt/KDPD00101/out1.json
student@node-1:~$
student@node-1:~$

```

Answer: A

NEW QUESTION # 158

• • • • •

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