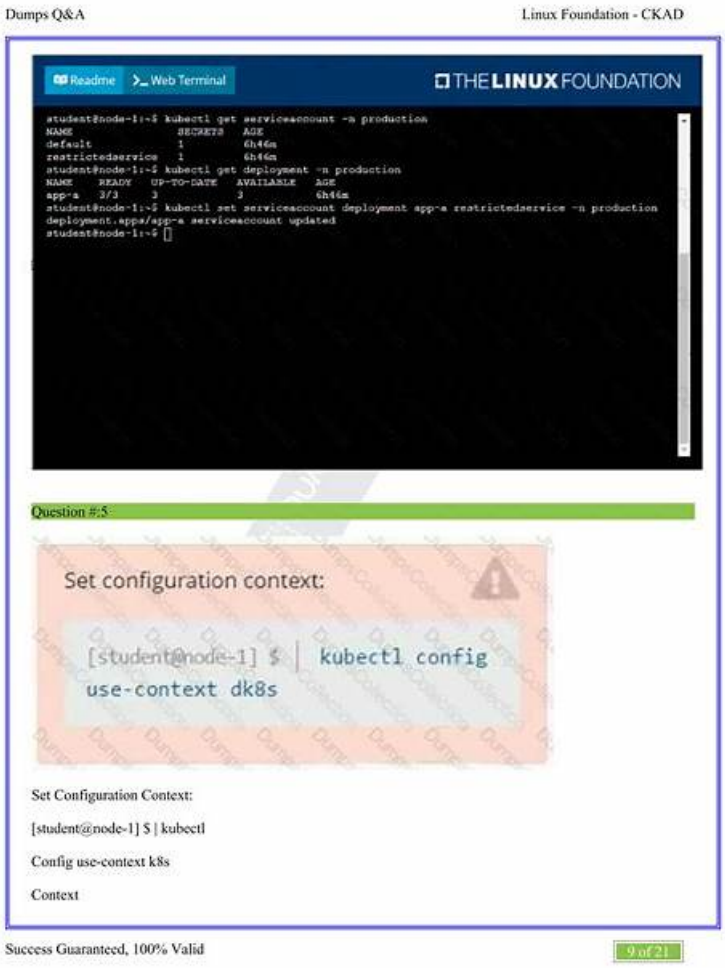
Quiz Linux Foundation - Useful CKAD Practice Exam Online



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The CKAD exam is designed to test the proficiency of developers in Kubernetes application development and deployment using command-line tools. CKAD exam consists of 19 questions that require candidates to perform tasks in a live Kubernetes cluster environment. CKAD exam is time-bound, and candidates are given two hours to complete it. Linux Foundation Certified Kubernetes Application Developer Exam certification program is vendor-neutral, which means that it is not tied to any specific cloud provider, and it is recognized globally.

Linux Foundation CKAD exam is designed to help developers demonstrate their expertise in deploying and managing applications on Kubernetes. Linux Foundation Certified Kubernetes Application Developer Exam certification is recognized by the industry as a benchmark for Kubernetes skills, making it a valuable asset for developers who want to advance their careers.

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Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q144-Q149):

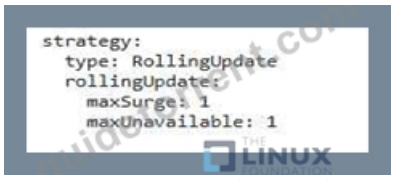
NEW QUESTION # 144
You have a Deployment running with a specific image tag, and you want to roll out a new version with a different image tag- However, you want to ensure that the update process is gradual, and only one pod is updated at a time. Additional'" you need to monitor the performance metrics 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.yamr file and add the following to the 'spec-strategy' section:

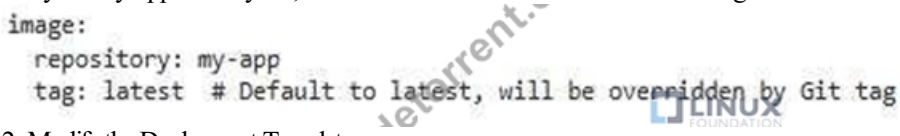


4. Set up monitoring with Prometheus and Grafana: - Install Prometheus and Grafana on your Kubernetes cluster. - Configure Prometheus to scrape metrics from your application pods. - Create Grafana dashboards to visualize the relevant metrics. 5. Create an alert in Prometheus: - Define an alert that triggers if the application's performance degrades significantly - This alert should be configured to send notifications to your team. 6. Create a rollback mechanism: - IJse a script or a tool like 'oubect1 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-yamp file and change the 'image' to 'example/nginx:v2 8. Apply the changes to your Kubernetes cluster: bash oubect1 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 # 145
You have a Helm cnan named 'my-app' that deploys a web application. The chan uses a 'service' and 'deployment' to expose the application. However, the chart currently deploys the application using a static 'image: my-app:v1.0.0' in the 'deployment section. How can you modify the Helm chan to dynamically pull the latest image tag from a Git tag tor the 'my-app' repository?

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
I). Configure Git Tag as Image Tag:
- In your 'my-app/values.yamr, add a new variable to hold the desired Git tag:



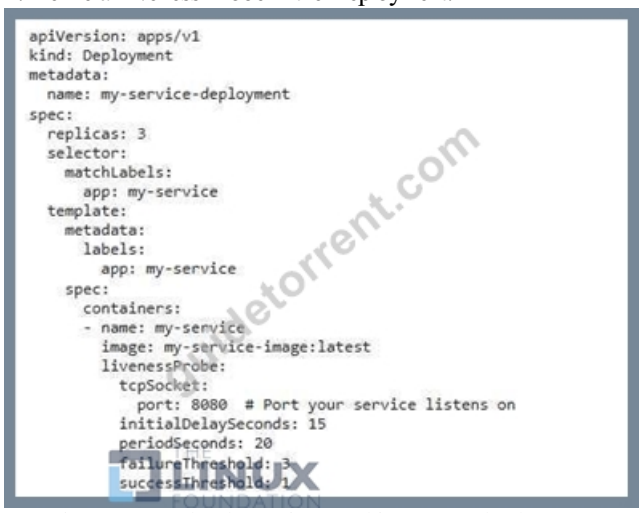
2. Modify the Deployment Template:

3. Fetch Git Tag using 'helm template's - Before deploying the chart, use 'helm template to generate the template with the Git tag injected. Assuming your Git repository is named 'my-repo' and the tag iS 'vl.1.0', run: bash helm template my-app -set image-tag=$(git Is-remote --tags my-repo I grep vl .1.0 | awk '{print $2}' | cut -f3) 4. Deploy the Chart: - Now you can deploy the Helm chart using the generated template or by setting the 'image-tag' value directly in the 'helm install' command. For example: bash helm install my-app my-appl --set image.tag=S(git Is-remote -tags my-repo I grep v1.1.0 | awk '{print $2)' | cut -d'/' -f3) - When deploying, the chart will automatically use the specified Git tag as the image tag for the deployment.

NEW QUESTION # 146
You're building a microservice architecture that uses a load balancer to distribute traffic across multiple instances of a service. You want to implement a health check mechanism that ensures only healthy instances receive traffic. Design a solution using Kubernetes Liveness probes and a service With a health check configuration.

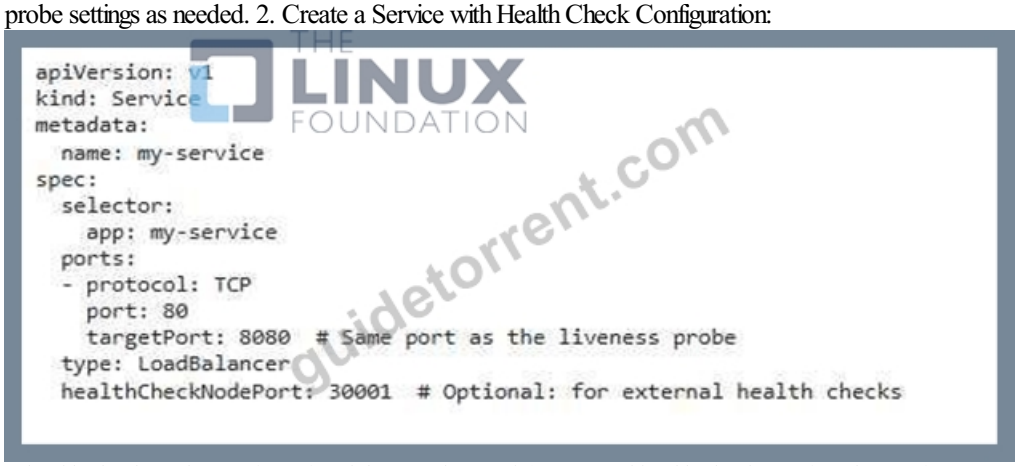
Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Define a Liveness Probe in the Deployment:



```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-service-deployment
spec:
  replicas: 3
  selector:
    matchLabels:
      app: my-service
  template:
    metadata:
      labels:
        app: my-service
    spec:
      containers:
      - name: my-service
        image: my-service-image:latest
        livenessProbe:
          tcpSocket:
            port: 8080  # Port your service listens on
          initialDelaySeconds: 15
          periodSeconds: 20
          failureThreshold: 3
          successThreshold: 1
```

- Replace 'my-service-image:latest' with your service image. - Replace '8080' with the port your service listens on. - Adjust the probe settings as needed. 2. Create a Service with Health Check Configuration:



```
apiVersion: v1
kind: Service
metadata:
  name: my-service
spec:
  selector:
    app: my-service
  ports:
  - protocol: TCP
    port: 80
    targetPort: 8080  # Same port as the liveness probe
  type: LoadBalancer
  healthCheckNodePort: 30001  # Optional: for external health checks
```

- 'healthCheckNodePort' is optional, but can be used for external health checks against the service. 3. Apply the YAML Files: - Apply the Deployment and Service using 'kubectl apply -f deployment_yamr and ' kubectl apply -f service.yaml'. 4. Verify the Health Checks: - Check the service logs for liveness probe results. - If a pod becomes unhealthy, it should be restarted by the liveness probe. - You can also use 'kubectl get pods -I app=my-service' to check the pod status. 5. Advanced Configuration: - Use 'exec' or 'httpGet' probes for more complex health check requirements. - Configure the 'failureThreshold' and "successThreshold' to adjust the probe's sensitivity. - Add a 'readinessProbe' to the Deployment for readiness checks that determine when a pod is ready to receive traffic. ,

NEW QUESTION # 147
Refer to Exhibit.

Task
Create a new deployment for running.nginx with the following parameters;
* Run the deployment in the kdpd00201 namespace. The namespace has already been created
* Name the deployment frontend and configure with 4 replicas
* Configure the pod with a container image of lfccncf/nginx:1.13.7
* Set an environment variable of NGINX__PORT=8080 and also expose that port for the container above

Answer:

Explanation:
Solution:

NEW QUESTION # 148
You're developing a Kubernetes application that requires a custom resource definition (CRD) to manage the configuration of your application. You need to ensure that only authorized users or groups can create or modify instances of this custom resource. How would you configure security contexts for the CRD to achieve this?

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Define the CRD:
- First, you need to define your CRD using a YAML file. This file will outline the schema and properties of your custom resource.

For example:

```
apiVersion: apiextensions.k8s.io/v1
kind: CustomResourceDefinition
metadata:
  name: myapps.mygroup.example.com
spec:
  group: mygroup.example.com
  versions:
  - name: v1
    served: true
    storage: true
  scope: Namespaced
  names:
    plural: myapps
    singular: myapp
  # Define the schema of your custom resource here
  # ...
```

2. Create a Role and Roledinding: - To enforce authorization, you'll create a Role and ROIeBinding. The Role Will define the allowed actions, and the ROIeBinding Will associate this Role with specific users or groups. - Role: - Create a Role that allows only the necessary actions on the CRD. For example, if you only want users to read the CRD, define a Role that grants read access:

```
apiVersion: rbac.authorization.k8s.io/v1
kind: Role
metadata:
  name: myapp-reader-role
  namespace:
rules:
- apiGroups: ["mygroup.example.com"]
  resources: ["myapps"]
  verbs: ["get", "list", "watch"]
```

- RoleBinding: - Bind the Role to the users or groups you want to authorize. For example, bind the 'myapp-reader-role' to a specific user:

```
apiVersion: rbac.authorization.k8s.io/v1
kind: RoleBinding
metadata:
  name: myapp-reader-binding
  namespace:
roleRef:
  apiGroup: rbac.authorization.k8s.io
  kind: Role
  name: myapp-reader-role
subjects:
- kind: User
  name:
```

3. Apply the Resources: - Apply the CRD, Role, and Role3inding to your Kubernetes cluster using kubectl: bash kubectl apply -f crd.yaml kubectl apply -f role.yaml kubectl apply -f rolebinding.yaml 4. Test the Security' - Now, try creating a custom resource instance. Only the authorized users or groups will be able to create or modify instances of this CRD. - This configuration defines a custom resource that allows only authorized users to interact With it. - The Role grants specific permissions, and the RoleBinding links the Role to specific users or groups. - By defining appropriate roles and rolebindings, you can enforce granular access control on your custom resource and ensure only authorized users can create or modify CRD instances. ,

NEW QUESTION # 149

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