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Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q25-Q30):

NEW QUESTION # 25
You are building a microservice called 'order-service' that handles order processing. You need to configure a Securitycontext for the 'order-service' container tnat ensures it can access the network to communicate With other services and access specific hostPath volumes, but it should not have root privileges.

Answer:

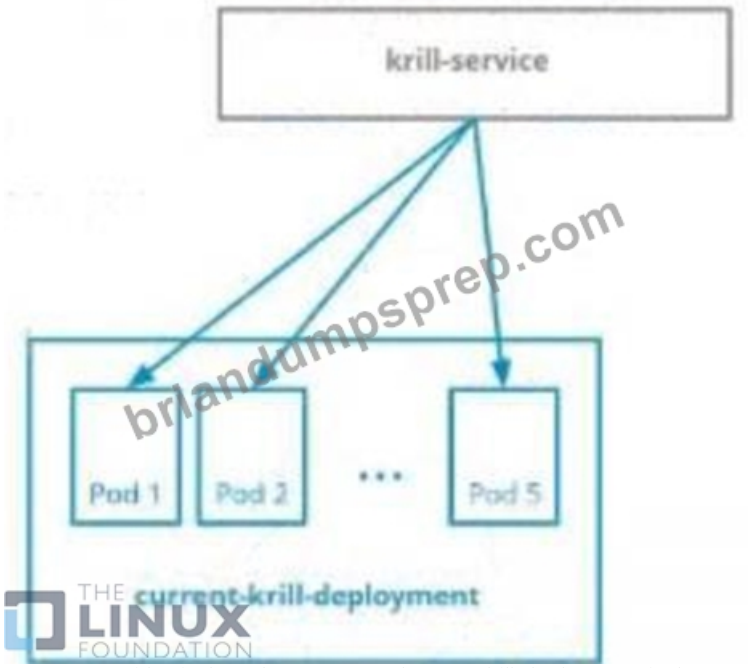
Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Define the Securitycontext:
- Create a 'securityContext' section within the 'spec.template.spec.containers' block for your 'order-service' container.
- Set 'runAslJser' to a non-root IJID (e.g., 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.

```yaml
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
```

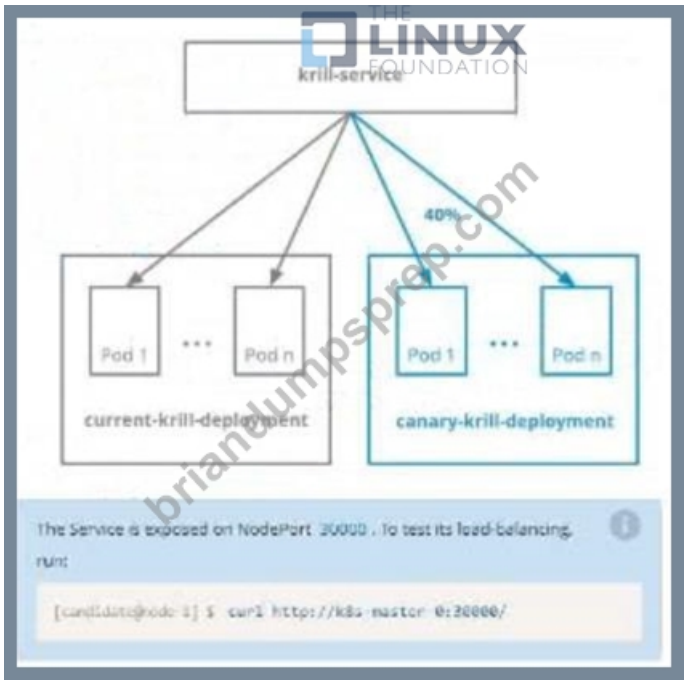
2. Mount HostPath Volumes: - Define 'volumeMountS for the required hostPath volumes. - Specify the mount path within the container C Idata' and 'Iconfig' in this example) and the volume name. - Define corresponding 'volumes with the 'hostPath' type, specifying the source path on the host and the volume 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 'runAsUserS to a non-root I-IID ensures that tne 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 detine WhiCh capabilities the container snould nave. 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 # 26

Context
You are asked to prepare a Canary deployment for testing a new application release.
Task:
A Service named krill-Service in the goshark namespace points to 5 pod created by the Deployment named current-krill-deployment



1) Create an identical Deployment named canary-kill-deployment, in the same namespace.
2) Modify the Deployment so that:
-A maximum number of 10 pods run in the goshawk namespace.
-40% of the krill-service 's traffic goes to the canary-krill-deployment pod(s)



Answer:

Explanation:
See the solution below.
Explanation
Solution:

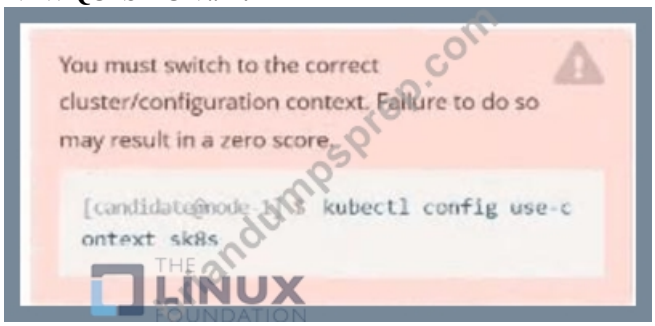
Text Description automatically generated

```
File  Edit  View  Terminal  Tabs  Help

2022-09-24 11:43:52 (15.0 MB/s) - 'quota-pod.yaml' saved [90/90]

candidate@node-1:~/humane-stork$ vim quota-pod.yaml
candidate@node-1:~/humane-stork$ kubectl  create  -f quota-pod.yaml
resourcequota/pod-demo created
candidate@node-1:~/humane-stork$ kubectl get quota -n go
No resources found in go namespace.
candidate@node-1:~/humane-stork$ kubectl get quota -n goshawk
NAME       AGE   REQUEST      LIMIT
pod-demo   19s   pods: 9/10
candidate@node-1:~/humane-stork$ curl http://k8s-master-0:30000/
current-krill-deployment-fb7c7995c-kvtjr
app.kubernetes.io/name="current"
app.kubernetes.io/part-of="krill"
pod-template-hash="fb7c7995c"candidate@node-1:~/humane-stork$ curl http://k8s-master-0:30000/
current-krill-deployment-fb7c7995c-4whfm
app.kubernetes.io/name="current"
app.kubernetes.io/part-of="krill"
pod-template-hash="fb7c7995c"candidate@node-1:~/humane-stork$ curl http://k8s-master-0:30000/
canary-krill-deployment-5f78fd4786-dfk7l
app.kubernetes.io/name="canary"
app.kubernetes.io/part-of="krill"
pod-template-hash="5f78fd4786"candidate@node-1:~/humane-stork$ curl http://k8s-master-0:30000/
canary-krill-deployment-5f78fd4786-z5zrt
app.kubernetes.io/name="canary"
app.kubernetes.io/part-of="krill"
pod-template-hash="5f78fd4786"candidate@node-1:~/humane-stork$ curl http://k8s-master-0:30000/
canary-krill-deployment-5f78fd4786-2774b
app.kubernetes.io/name="canary"
app.kubernetes.io/part-of="krill"
pod-template-hash="5f78fd4786"candidate@node-1:~/humane-stork$
```

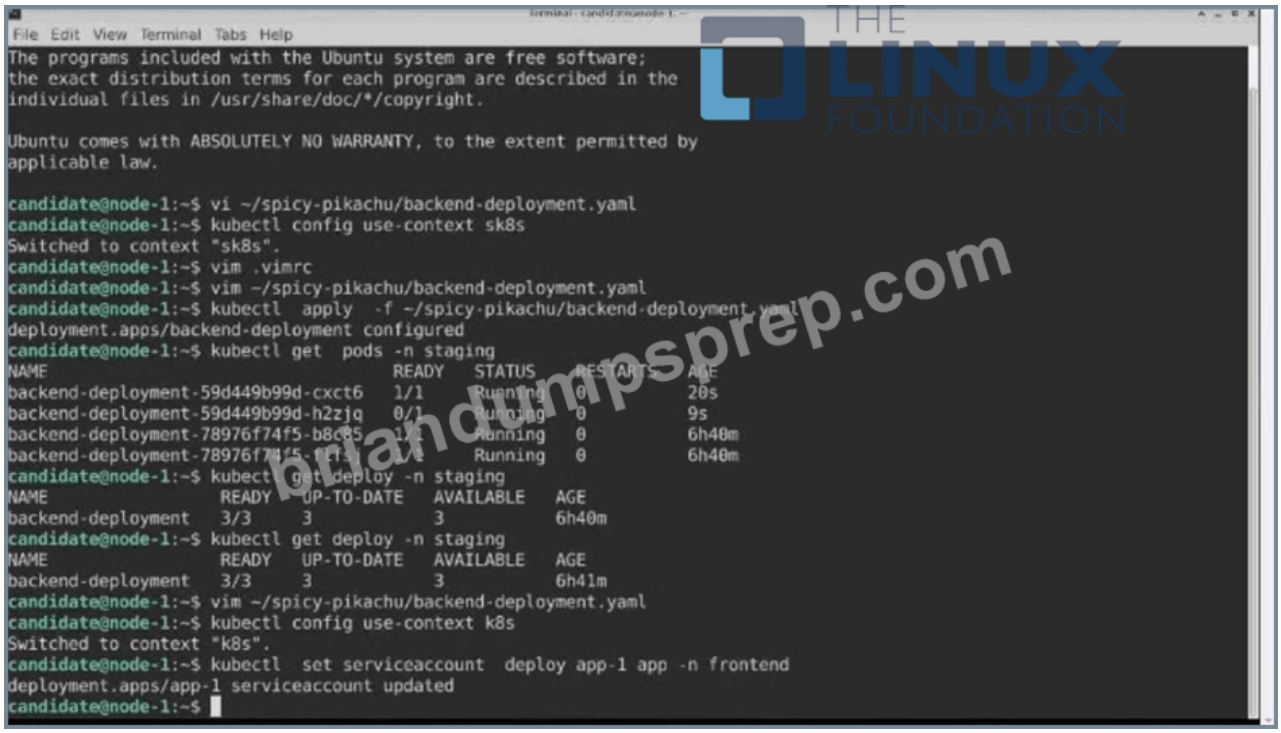
NEW QUESTION # 27



Task:
Update the Deployment app-1 in the frontend namespace to use the existing ServiceAccount app.

Answer:

Explanation:
See the solution below.
Explanation:
Solution:



NEW QUESTION # 28

Context
Your application's namespace requires a specific service account to be used.
Task
Update the app-a deployment in the production namespace to run as the restrictedservice service account. The service account has already been created.

Answer:

Explanation:
See the solution below.
Explanation
Solution:

NEW QUESTION # 29
Refer to Exhibit.

Context
Developers occasionally need to submit pods that run periodically.
Task
Follow the steps below to create a pod that will start at a predetermined time and]which runs to completion only once each time it is started:
* Create a YAML formatted Kubernetes manifest /opt/KDPD00301/periodic.yaml that runs the following shell command: date in a single busybox container. The command should run every minute and must complete within 22 seconds or be terminated oy Kubernetes. The Cronjob namp and container name should both be hello
* Create the resource in the above manifest and verify that the job executes successfully at least once

Answer:

Explanation:
Solution:

NEW QUESTION # 30

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