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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 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) :

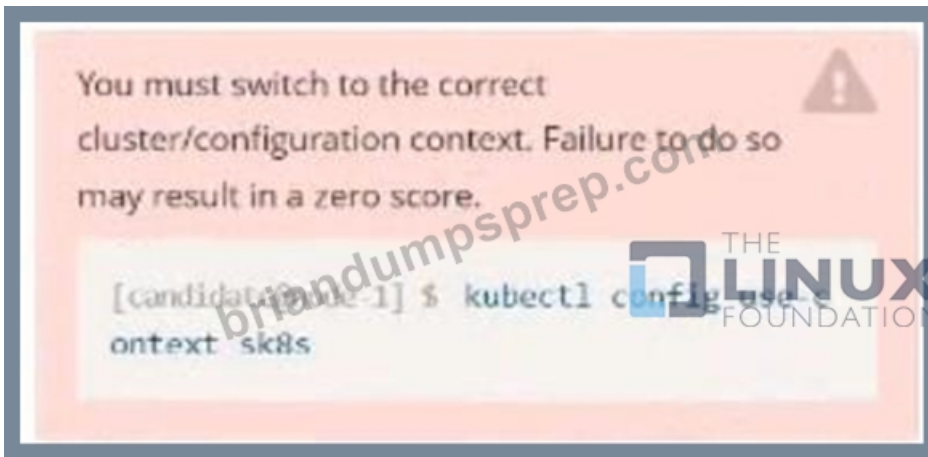
1. Define the Securitycontext:

- 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 # 26

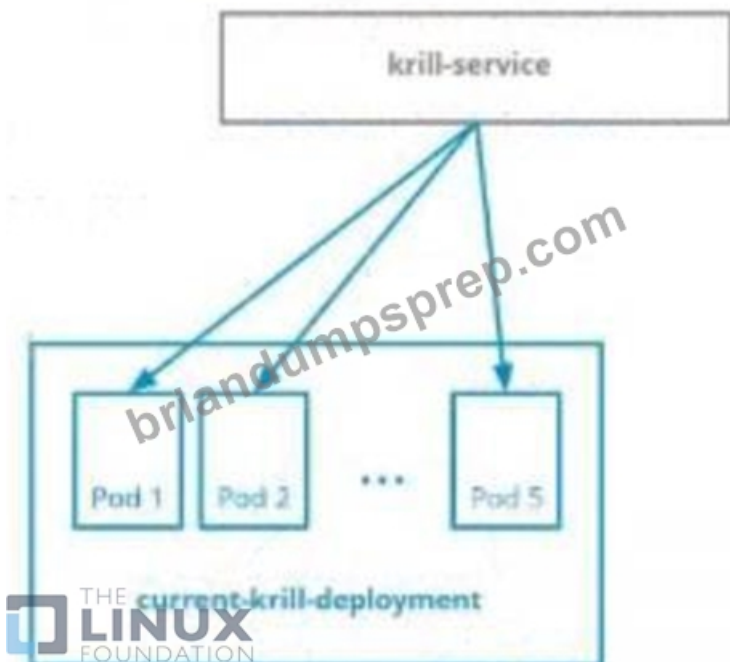


Context

You are asked to prepare a Canary deployment for testing a new application release.

Task:

A Service named krill-Service in the goshawk namespace points to 5 pod created by the Deployment named current-krill-deployment

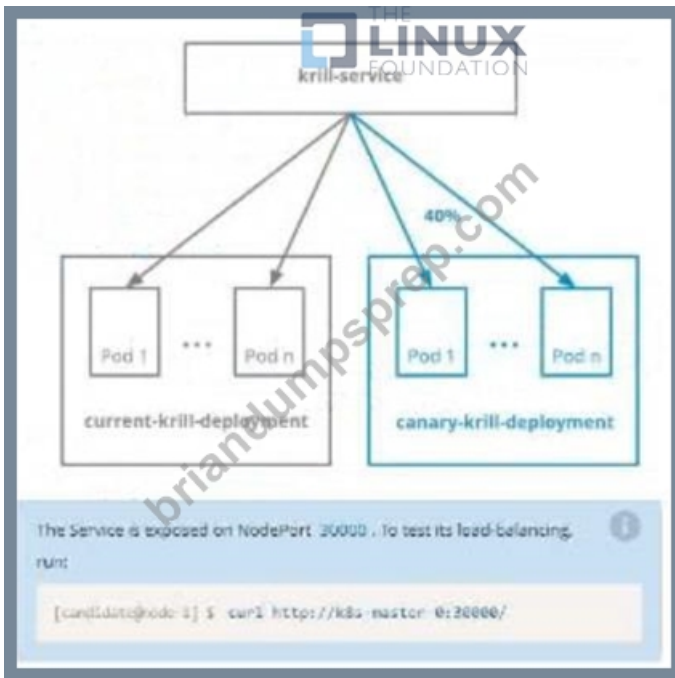


1) Create an identical Deployment named canary-kill-deployment, in the same namespace.

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:

```
candidate@node-1:~/humane-stork$ kubectl scale deploy canary-krill-deployment --replicas 4 -n goshawk
deployment.apps/canary-krill-deployment scaled
candidate@node-1:~/humane-stork$ kubectl get deploy -n goshawk
NAME                READY   UP-TO-DATE   AVAILABLE   AGE
canary-krill-deployment  4/4     4             4           16s
current-krill-deployment  5/5     5             5           7h22m
candidate@node-1:~/humane-stork$ wget https://k8s.io/examples/
```

Text Description automatically generated

```
File Edit View Terminal Tabs Help
candidate@node-1:~/humane-stork$ wget https://k8s.io/examples/admin/resource/quota-pod.yaml
--2022-09-24 11:43:51-- https://k8s.io/examples/admin/resource/quota-pod.yaml
resolving k8s.io (k8s.io)... 34.107.204.206, 2600:1901:0:26f3::
connecting to k8s.io (k8s.io)[34.107.204.206]:443... connected.
HTTP request sent, awaiting response... 301 Moved Permanently
location: https://kubernetes.io/examples/admin/resource/quota-pod.yaml [following]
--2022-09-24 11:43:52-- https://kubernetes.io/examples/admin/resource/quota-pod.yaml
resolving kubernetes.io (kubernetes.io)... 147.75.40.148
connecting to kubernetes.io (kubernetes.io)[147.75.40.148]:443... connected.
HTTP request sent, awaiting response... 200 OK
length: 90 [application/x-yaml]
saving to: 'quota-pod.yaml'

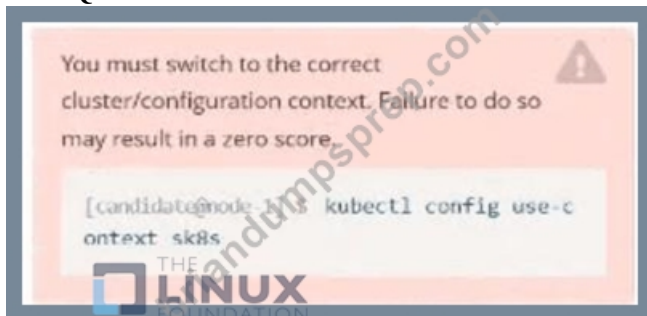
quota-pod.yaml 100%[=====] 90 --.-KB/s in 0s

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
```

```
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-storks$ vim quota-pod.yaml
candidate@node-1:~/humane-storks$ kubectl create -f quota-pod.yaml
resourcequota/pod-demo created
candidate@node-1:~/humane-storks$ kubectl get quota -n go
No resources found in go namespace.
candidate@node-1:~/humane-storks$ kubectl get quota -n goshawk
NAME      AGE  REQUEST  LIMIT
pod-demo  19s  pods: 9/10
candidate@node-1:~/humane-storks$ 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-storks$ 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-storks$ 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-storks$ 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-storks$ 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-storks$
```

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:

```

terminal - candidate@node-1
File Edit View Terminal Tabs Help
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

candidate@node-1:~$ vi ~/spicy-pikachu/backend-deployment.yaml
candidate@node-1:~$ kubectl config use-context sk8s
Switched to context "sk8s".
candidate@node-1:~$ vim .vimrc
candidate@node-1:~$ vim ~/spicy-pikachu/backend-deployment.yaml
candidate@node-1:~$ kubectl apply -f ~/spicy-pikachu/backend-deployment.yaml
deployment.apps/backend-deployment configured
candidate@node-1:~$ kubectl get pods -n staging
NAME                                READY   STATUS    RESTARTS   AGE
backend-deployment-59d449b99d-cxct6 1/1     Running   0           20s
backend-deployment-59d449b99d-h2zjq 0/1     Running   0           9s
backend-deployment-78976f74f5-b8c85 1/1     Running   0           6h40m
backend-deployment-78976f74f5-rtf3 1/1     Running   0           6h40m
candidate@node-1:~$ kubectl get deploy -n staging
NAME                                READY   UP-TO-DATE   AVAILABLE   AGE
backend-deployment                  3/3     3             3           6h40m
candidate@node-1:~$ kubectl get deploy -n staging
NAME                                READY   UP-TO-DATE   AVAILABLE   AGE
backend-deployment                  3/3     3             3           6h41m
candidate@node-1:~$ vim ~/spicy-pikachu/backend-deployment.yaml
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl set serviceaccount deploy app-1 app -n frontend
deployment.apps/app-1 serviceaccount updated
candidate@node-1:~$

```

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:

```
Readme Web Terminal THE LINUX FOUNDATION

student@node-1:~$ kubectl get serviceaccount -n production
NAME          SECRETS  AGE
default       1        6h46m
restrictedservice 1        6h46m
student@node-1:~$ kubectl get deployment -n production
NAME  READY  UP-TO-DATE  AVAILABLE  AGE
app-a  3/3    3           3          6h46m
student@node-1:~$ kubectl set serviceaccount deployment app-a restrictedservice -n production
deployment.apps/app-a serviceaccount updated
student@node-1:~$
```

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 by Kubernetes. The Cronjob name 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:

```

THE LINUX FOUNDATION
Readme Web Terminal
student@node-1:~$ kubectl create cronjob hello --image=busybox --schedule "* * * * *" --dry-run=
client -o yaml > /opt/KDPD00301/periodic.yaml
error: unable to match a printer suitable for the output format "yaml", allowed formats are: go-t
emplate,go-template-file,json,jsonpath,jsonpath-as-json,jsonpath-file,name,template,templatefile
,yaml
student@node-1:~$ kubectl create cronjob hello --image=busybox --schedule "* * * * *" --dry-run=
client -o yaml > /opt/KDPD00301/periodic.yaml
student@node-1:~$ vim /opt/KDPD00301/periodic.yaml

```

```

THE LINUX FOUNDATION
Readme Web Terminal
apiVersion: batch/v1beta1
kind: CronJob
metadata:
  name: hello
spec:
  jobTemplate:
    metadata:
      name: hello
    spec:
      template:
        spec:
          containers:
            - image: busybox
              name: hello
              args: ["date"]
          restartPolicy: Never
  schedule: "* * * * *"
  startingDeadlineSeconds: 22
  concurrencyPolicy: Allow

```

19,26 All

```

THE LINUX FOUNDATION
Readme Web Terminal
student@node-1:~$ kubectl create cronjob hello --image=busybox --schedule "* * * * *" --dry-run=
client -o yaml > /opt/KDPD00301/periodic.yaml
error: unable to match a printer suitable for the output format "yaml", allowed formats are: go-t
emplate,go-template-file,json,jsonpath,jsonpath-as-json,jsonpath-file,name,template,templatefile
,yaml
student@node-1:~$ kubectl create cronjob hello --image=busybox --schedule "* * * * *" --dry-run=
client -o yaml > /opt/KDPD00301/periodic.yaml
student@node-1:~$ vim /opt/KDPD00301/periodic.yaml
student@node-1:~$ kubectl create -f /opt/KDPD00301/periodic.yaml
cronjob.batch/hello created
student@node-1:~$ kubectl get cronjob
NAME          SCHEDULE          SUSPEND   ACTIVE   LAST SCHEDULE   AGE
hello        */1 * * * *      False    0        <none>          6s
student@node-1:~$

```

NEW QUESTION # 30

.....

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