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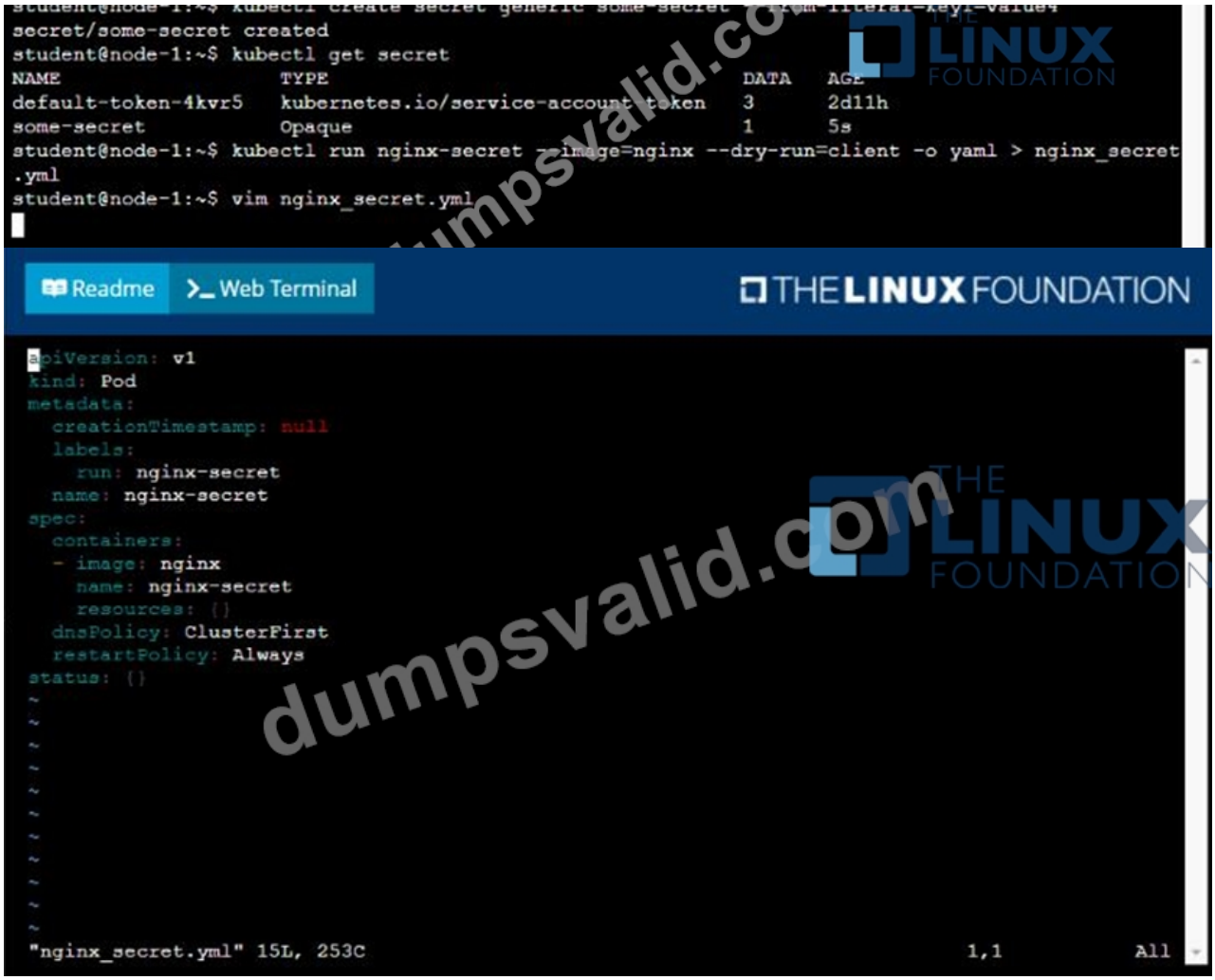
Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q139-Q144):

NEW QUESTION # 139
Context

You are tasked to create a secret and consume the secret in a pod using environment variables as follow:
Task
* Create a secret named another-secret with a key/value pair; key1/value4
* Start an nginx pod named nginx-secret using container image nginx, and add an environment variable exposing the value of the secret key key 1, using COOL_VARIABLE as the name for the environment variable inside the pod

Answer:

Explanation:
Solution:



NEW QUESTION # 140
You are working on a Kubernetes cluster where you have a Deployment named 'web-app' running an application. The application has a sensitive configuration file named 'config.jsons that is mounted as a volume to each pod. You need to ensure that this configuration file is not accessible by any user or process running within the pod, except for the application itselt Describe how you would implement this security best practice, using specific Kubernetes configurations, to protect the sensitivity of the 'config.json' file.

Answer:

Explanation:
See the solution below with Step by Step Explanation.

Explanation:
Solution (Step by Step) :
1. Create a Secret for the Configuration File:
- Create a Kubernetes Secret to store the 'config.json' file securely. This will ensure that the configuration data is encrypted and stored in a way that is not accessible directly by users or processes within the pod.
- Use the following command to create the Secret:
bash
kubectl create secret generic config-secret -from-file-config .json=configjson
2. Mount the Secret as a Volume:
- In your Deployment YAML, mount the 'contig-secret' as a volume to the pod. This will make the secret's content available to the pod.
- Define the volume mount in the 'spec-template-spec-containers' section of your Deployment YAML:

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: web-app
spec:
  replicas: 3
  selector:
    matchLabels:
      app: web-app
  template:
    metadata:
      labels:
        app: web-app
    spec:
      containers:
      - name: web-app
        image: example/web-app:latest
        volumeMounts:
        - name: config-volume
          mountPath: /etc/config
      volumes:
      - name: config-volume
        secret:
          secretName: config-secret
```

3. Restrict Access using Security Context: - Define a 'securityContexts for the container in your Deployment YAML. This will restrict the container's capabilities and permissions. - Add a 'securitycontext' section to the section of your Deployment YAML:

```
securityContext:
  # Set the container's user to a non-root user (e.g., 1000)
  runAsUser: 1000
  # Set the container's group to a non-root group (e.g., 1000)
  runAsGroup: 1000
  # Set the container's permissions to a restricted set (e.g., read-only for /etc/config)
  readOnlyRootFilesystem: true
```

4. Limit the Container's Capabilities: - Configure the 'capabilities' section within the 'securityContexts to restrict the container's access to specific system capabilities. This is essential for limiting the containers ability to access sensitive information or perform privileged operations. - Add a 'capabilities' section to the 'spec-template-spec-containers-securitycontext' section of your Deployment YAML:

```
securityContext:
  # ... (other security context settings)
  capabilities:
    drop:
      - ALL
    add:
      - NET_BIND_SERVICE
```

5. Apply the Deployment: - Once tne Deployment configuration is updated, apply it to the cluster using the following command: bash kubectl apply -f deployment.yaml By implementing these steps, you ensure that the 'config.json' file is secured using a Kubernetes Secret, mounted as a volume, and access is restricted using security context and capabilities settings. This effectively protects the sensitive configuration from unauthorized access within the pod.

NEW QUESTION # 141
You are deploying a new microservice called 'payment-service' that requires access to a confidential data volume mounted at /sensitive- data'. This volume is mounted as a Secret in Kubernetes. The 'payment-service' container should only be allowed to access this volume. You need to configure the PodSecurityPolicy to enforce this access restriction.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
I). Create a PodSecurityPoIicy:
- Create a YAML file for your P0dSecurityP01icy.
- Define the 'apiVersion' and 'kind'
- Add a 'metadata' section with a unique name for the policy (e.g., 'payment-service-psp').
- In the 'spec' section:
- Set 'runAsUser' to ' RunAsAny' to allow any user ID.
- Set readOnlyRootFilesystem' to 'talse' to allow modifications within the container.
- Set 'hostNetworR to 'false' to avoid using the host's network.
- Set 'allowPrivilegeEscalatiorU to 'false' to prevent privilege escalation.
- In the 'volumes' sectiom
- Define 'hostPath' as the allowed volume type with the specified path "Isensitive-data'

```
apiVersion: policy/v1beta1
kind: PodSecurityPolicy
metadata:
  name: payment-service-psp
spec:
  runAsUser: RunAsAny
  readOnlyRootFilesystem: false
  hostNetwork: false
  allowPrivilegeEscalation: false
  volumes:
  - hostPath:
      path: "/sensitive-data"
```

2. Apply the PodSecurityPolicy: - Use ' kubectl apply -f payment-service-psp.yamr to create the PodSecurityPoIicy in your cluster.
3. Create a ServiceAccount: - Create a new ServiceAccount tor the 'payment-service deployment. - Apply the ServiceAccount YAML file using 'kubectl apply -f payment-service-sa_yamr 4. Bind the PodSecurityPolicy to the ServiceAccount: - Create a RoleBinding to bind the 'payment-service-psp' to the 'payment-service' ServiceAccount - Apply the RoleBinding YAML file using "kubectl apply -f payment-service-rb.yaml"

```
apiVersion: rbac.authorization.k8s.io/v1
kind: RoleBinding
metadata:
  name: payment-service-binding
roleRef:
  apiGroup: rbac.authorization.k8s.io
  kind: Role
  name: payment-service-psp
subjects:
- kind: ServiceAccount
  name: payment-service
  namespace: default
```

5. Deploy the Payment Service: - Create the 'payment-service' Deployment configuration. - Specify the 'payment-service' ServiceAccount in the field. - Define the 'volumeMount tor the 'sensitive-data' volume and specify the corresponding 'volume' in the 'volumes' section. - Ensure the volume is mounted as a Secret from the 'default' namespace.

```
ind: Deployment
etadata:
 name: payment-service
pec:
 replicas: 1
 selector:
   matchLabels:
     app: payment-service
 template:
   metadata:
     labels:
       app: payment-service
   spec:
     serviceAccountName: payment-service
     containers:
     - name: payment-service
       image: your-image:latest
       volumeMounts:
       - name: sensitive-data
         mountPath: /sensitive-data
         readOnly: false
     volumes:
     - name: sensitive-data
       secret:
```

- The PodSecurityPolicy restricts the benavior of pods and their containers. - 'runAslJser' , 'readOnlyRootFilesystem', 'hostNetwork' , and sallowPrivilegeEscalation' define various security constraints for the container. - The 'volumes' section specifies allowed volume types (e.g., 'hostPath') and paths. - The ServiceAccount binds the PodSecurityPolicy to the deployment. - The ROIeBinding assigns the PodSecurityPolicy to the ServiceAccount, effectively enforcing the specified constraints. This configuration ensures that only the payment-service' deployment can access the confidential data volume mounted as a Secret in Kubernetes.

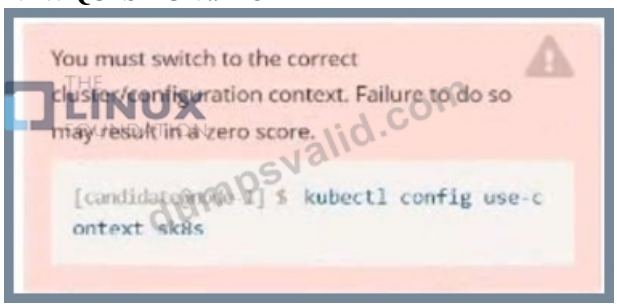
NEW QUESTION # 142
Context

Context
You sometimes need to observe a pod's logs, and write those logs to a file for further analysis.
Task
Please complete the following;
* Deploy the counter pod to the cluster using the provided YAMLspec file at /opt/KDOB00201/counter.yaml
* Retrieve all currently available application logs from the running pod and store them in the file /opt/KDOB0020l/log_Output.txt, which has already been created

Answer:

Explanation:
Solution:

NEW QUESTION # 143



Task:

1- Update the Propertunel scaling configuration of the Deployment web1 in the ckad00015 namespace setting maxSurge to 2 and maxUnavailable to 59

2- Update the web1 Deployment to use version tag 1.13.7 for the Ifconf/nginx container image.

3- Perform a rollback of the web1 Deployment to its previous version

Answer:

Explanation:
See the solution below.
Explanation
Solution:

```
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl edit deploy web1 -n ckad00015
```

Text Description automatically generated

```
File  Edit  View  Terminal  Tabs  Help
      app: nginx
  strategy:
    rollingUpdate:
      maxSurge: 2%
      maxUnavailable: 5%
    type: RollingUpdate
  template:
    metadata:
      creationTimestamp: null
      labels:
        app: nginx
    spec:
      containers:
      - image: lfccncf/nginx:1.13.7
        imagePullPolicy: IfNotPresent
        name: nginx
        ports:
        - containerPort: 80
          protocol: TCP
        resources: {}
        terminationMessagePath: /dev/termination-log
        terminationMessagePolicy: File
      dnsPolicy: ClusterFirst
      restartPolicy: Always
      schedulerName: default-scheduler
      securityContext: {}
      terminationGracePeriodSeconds: 30
status:
  availableReplicas: 2
  conditions:
  - lastTransitionTime: "2022-09-24T04:26:41Z"
```

```
itched to context "k8s".
ndidate@node-1:~$ kubectl  create  secret  generic  app-secret -n default  --from-literal=key3=value1
cret/app-secret created
ndidate@node-1:~$ kubectl get secrets
ME         TYPE     DATA   AGE
p-secret   Opaque   1      4s
ndidate@node-1:~$ kubectl  run nginx-secret -n default  --image=nginx:stable --dry-run=client -o yaml> sec.yaml
ndidate@node-1:~$ vim sec.yaml
ndidate@node-1:~$ kubectl  create  -f sec.yaml
d/nginx-secret created
ndidate@node-1:~$ kubectl  get pods
ME           READY   STATUS    RESTARTS   AGE
inx-secret   1/1     Running   0          7s
ndidate@node-1:~$ kubectl config use-context k8s
itched to context "k8s".
ndidate@node-1:~$ kubectl  edit deploy web1 -n ckad00015
ployment.apps/web1 edited
ndidate@node-1:~$ kubectl  rollout  status  deploy web1 -n ckad00015
ployment "web1" successfully rolled out
ndidate@node-1:~$ kubectl  rollout undo  deploy web1 -n ckad00015
ployment.apps/web1 rolled back
ndidate@node-1:~$ kubectl  rollout  history  deploy web1 -n ckad00015
ployment.apps/web1
VISION  CHANGE-CAUSE
        <none>
        <none>

ndidate@node-1:~$ kubectl get rs -n ckad00015
ME              DESIRED   CURRENT   READY   AGE
b1-56f98bcb79   0         0         0       63s
b1-85775b6b79   2         2         2       6h53m
ndidate@node-1:~$
```

NEW QUESTION # 144
.....

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