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Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q157-Q162):

NEW QUESTION # 157
You have a Deployment named 'wordpress-deployment' that runs 3 replicas of a Wordpress container with the image 'wordpress:latest You need to ensure that wnen a new image is pusned to the Docker Hub repository 'my-wordpress-repo/wordpressaatest' , tne Deployment automatically updates to use the new image. Additionally, you need to set up a rolling update strategy where only one pod is updated at a time- The maximum number of unavailable pods at any given time should be 1.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Update the Deployment YAML.
- Add 'imagePuIIPoIicy: Always' to the container definition to ensure the deployment pulls the latest image from the Docker Hub repository even if a local copy exists.
- Set 'strategy-type: Rollingupdate' to enable a rolling update strategy.
- Configure 'strategy.rollingupdate.maxonavailable: I ' to allow only one pod to be unavailable during the update process.
- Set 'strategy-rollingUpdate.maxSurge: O' to restrict the number of pods added during the update to zero.

NEW QUESTION # 158
You have a Kubernetes cluster with a Deployment named 'my-app' running a simple web application. The 'my-app' Deployment is configured to use a ServiceAccount named 'my-app-sa' _ You want to ensure that only authorized users with specific permissions can access the 'my-app' pod's logs. How would you implement this using Role-Based Access Control (RBAC)?

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
I). Create a Role:
- Define a new Role named 'my-app-log-reader' that grants access to read logs of the 'my-app' pod.
- This role will be bound to the ServiceAccount used by the 'my-app' Deployment.

```
apiVersion: rbac.authorization.k8s.io/v1
kind: Role
metadata:
  name: my-app-log-reader
  namespace:
rules:
- apiGroups: ["logs.k8s.io"]
  resources: ["pods"]
  verbs: ["get", "list", "watch"]
```


2. Create a RoleBinding: - Create a RoleBinding named 'my-app-log-reader-binding' to link the 'my-app-log-reader' Role to the 'my-app-sa' ServiceAccount. - This binding allows the 'my-app-sa' to use the permissions defined in the 'my-app-log-reader' role.

```
apiVersion: rbac.authorization.k8s.io/v1
kind: RoleBinding
metadata:
  name: my-app-log-reader-binding
  namespace:
roleRef:
  apiGroup: rbac.authorization.k8s.io
  kind: Role
  name: my-app-log-reader
subjects:
- kind: ServiceAccount
  name: my-app-sa
  namespace:
```

3. Apply the Configurations: - Apply the Role and RoleBinding YAML files to your Kubernetes cluster using 'kubectl apply -f role.yamr and 'kubectl apply -f rolebinding_yamr 4. verify the RBAC: - Once applied, you can verify the RBAC configuration by using 'kubectl auth can-i get pods --as=my-app-sa --namespace=' - This command should show 'yes' indicating that the ServiceAccount can access pods. - You can also check for access to logs with a similar command: 'kubectl auth can-i get pods/my-app-pod-name --namespace=' - Replace "my-app-pod-name' with the actual pod name of the application. 5. Test Access: - Try accessing the logs using "kubectl logs my-app-pod-name -n ' while impersonating the ServiceAccount 'my-app-sa' - You should be able to view the logs successfully. If any user tries to access the logs without the necessary permissions, they will be denied. Important Note: This is a basic example and can be further Kustomize d depending on your specific security needs. You can adjust the 'rules' in the Role definition to control specific permissions for users or ServiceAccounts. For example, you might restrict access to certain namespaces or resources.]

NEW QUESTION # 159
You have a Deployment running a container image for a web application. The application's configuration files are currently stored within the image itself. you want to move the configuration files to a ConfigMap so that they can be updated independently or the application image. Describe the steps involved in modifying the Deployment and creating a ConfigMap to achieve this separation.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Create a ConfigMap:
- Create a ConfigMap using 'kubectl create configmap' with the configuration files. For example:
kubectl create configmap webapp-config -from-literal=config.json='{"port": 8080, "database_url": "mongodb://localhost27017"}'
- Replace 'config_json' with the name of your configuration file and the JSON content with your actual configuration values.
2. Modify the Deployment:
- Modify your Deployment YAML file to mount the ConfigMap as a volume. Here's an example:

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-webapp
spec:
  replicas: 3
  selector:
    matchLabels:
      app: my-webapp
  template:
    metadata:
      labels:
        app: my-webapp
    spec:
      containers:
      - name: my-webapp
        image: my-webapp-image:latest
        ports:
        - containerPort: 8080
        volumeMounts:
        - name: config-volume
          mountPath: /etc/webapp/config
      volumes:
      - name: config-volume
        configMap:
          name: webapp-config
      restartPolicy: Always
```

- Modify your application code to read configuration files from '/etctwebapp/config' 3. Apply the Changes: - Apply the updated Deployment using 'kubectl apply -f deployment_yamr 4. Verify the Update: - Check the logs of the pods using 'kubectl logs -f You should see the application loading configuration values from the ConfigMap. 5. Update the Configuration: - You can now update the configuration files within the ConfigMap without rebuilding the image. For example.

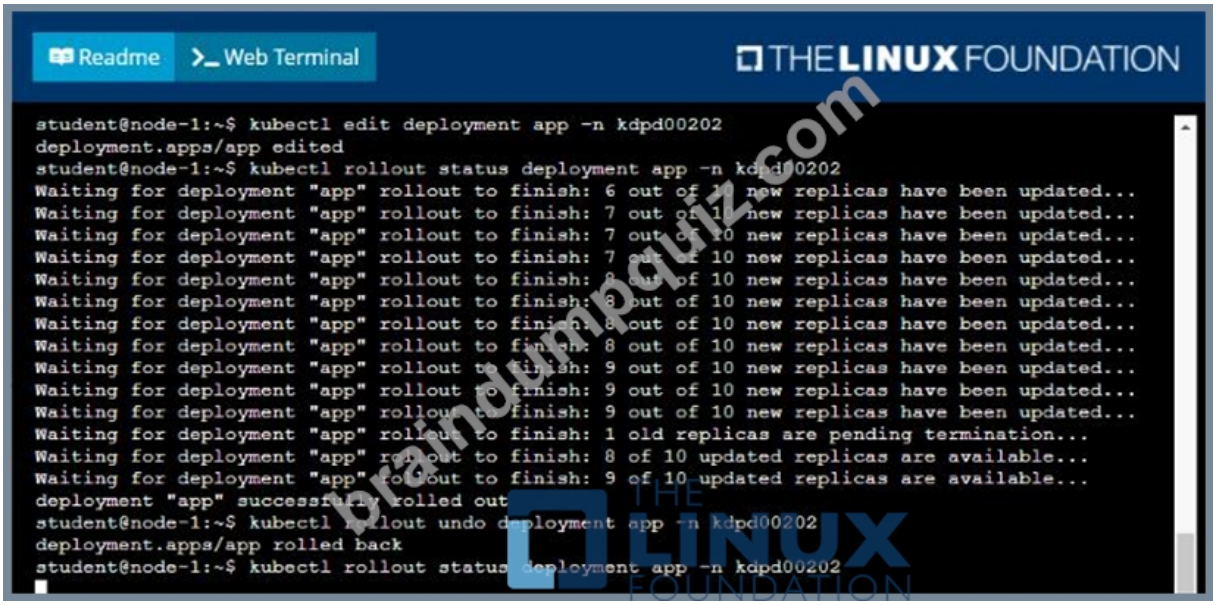
```
kubectl patch configmap webapp-config --patch '{"data": {"config.json": "{\"port\": 8081, \"database_url\": \"mongodb://newhost:27017\"}"}}'
```

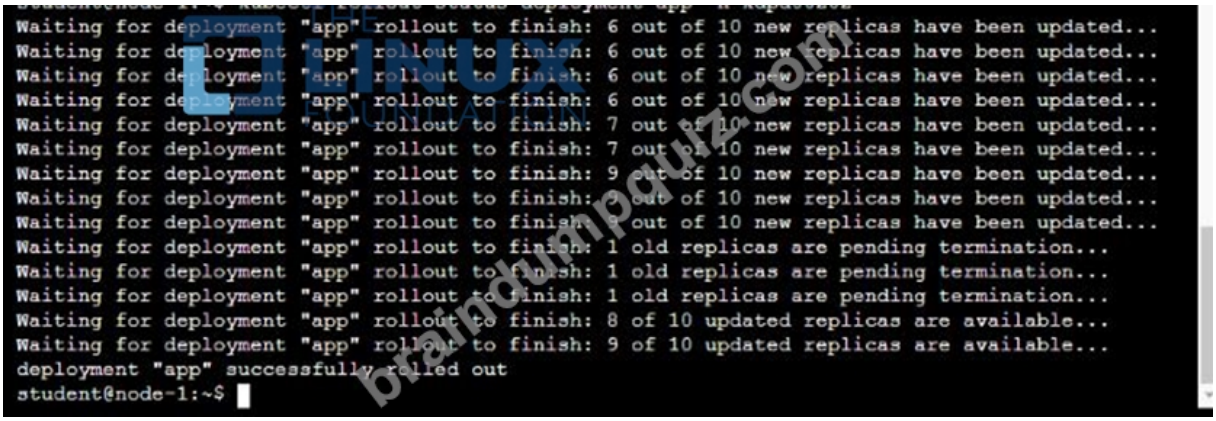
- This will update the ConfigMap and trigger a rolling update of the Deployment, effectively updating the application configuration without rebuilding the image.

NEW QUESTION # 160
Exhibit:

Context
As a Kubernetes application developer you will often find yourself needing to update a running application.
Task
Please complete the following:
* Update the app deployment in the kdpd00202 namespace with a maxSurge of 5% and a maxUnavailable of 2%
* Perform a rolling update of the web1 deployment, changing the lfccncf/ngmx image version to 1.13
* Roll back the app deployment to the previous version

- A. Solution:

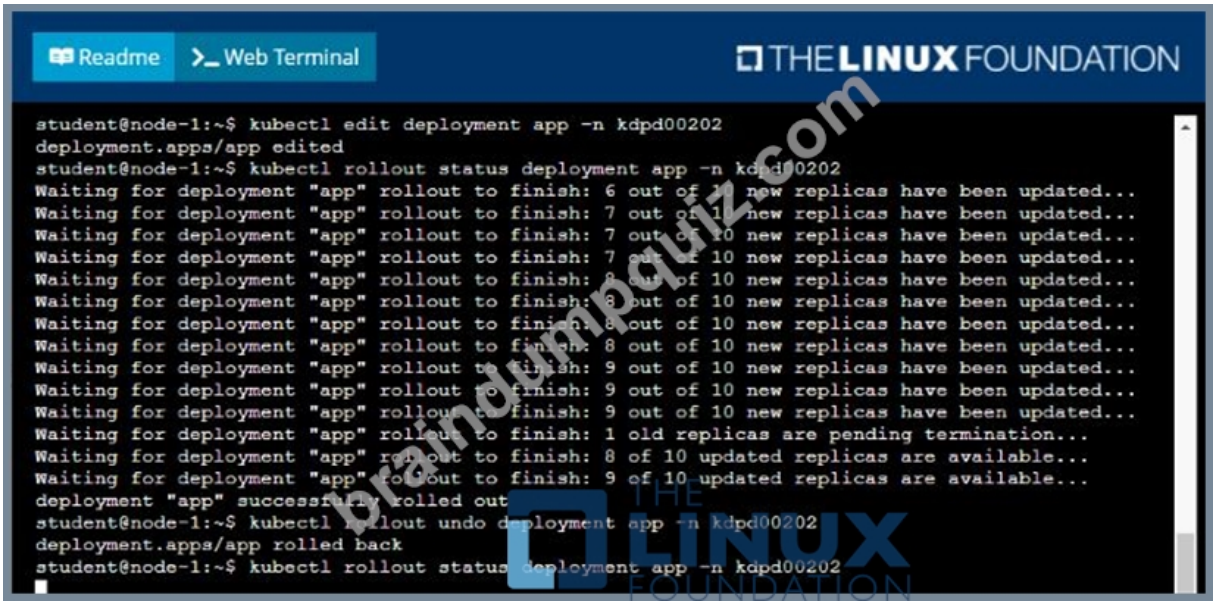



Waiting for deployment "app" rollout to finish: 6 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 6 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 6 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 6 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 7 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 7 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 9 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 9 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 9 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 1 old replicas are pending termination...
Waiting for deployment "app" rollout to finish: 1 old replicas are pending termination...
Waiting for deployment "app" rollout to finish: 1 old replicas are pending termination...
Waiting for deployment "app" rollout to finish: 8 of 10 updated replicas are available...
Waiting for deployment "app" rollout to finish: 9 of 10 updated replicas are available...
deployment "app" successfully rolled out
student@node-1:~$

- B. Solution:


Readme
Web Terminal
THE LINUX FOUNDATION
student@node-1:~$ kubectl edit deployment app -n kdpd00202


Readme
Web Terminal
THE LINUX FOUNDATION
uid: 1dfa2527-5c61-46a9-8dd3-e24643d3ce14
spec:
progressDeadlineSeconds: 600
replicas: 10
revisionHistoryLimit: 10
selector:
matchLabels:
app: nginx
strategy:
rollingUpdate:
maxSurge: 5%
maxUnavailable: 2
type: RollingUpdate
template:
metadata:
creationTimestamp: null
labels:
app: nginx
spec:
containers:
- image: lfccncf/nginx:1.13
imagePullPolicy: IfNotPresent
name: nginx
ports:
- containerPort: 80
protocol: TCP
:wq!


Readme
Web Terminal
THE LINUX FOUNDATION
student@node-1:~$ kubectl edit deployment app -n kdpd00202
deployment.apps/app edited
student@node-1:~$ kubectl rollout status deployment app -n kdpd00202
Waiting for deployment "app" rollout to finish: 6 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 7 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 7 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 7 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 8 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 8 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 8 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 8 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 9 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 9 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 9 out of 10 new replicas have been updated...
Waiting for deployment "app" rollout to finish: 1 old replicas are pending termination...
Waiting for deployment "app" rollout to finish: 8 of 10 updated replicas are available...
Waiting for deployment "app" rollout to finish: 9 of 10 updated replicas are available...
deployment "app" successfully rolled out
student@node-1:~$ kubectl rollout undo deployment app -n kdpd00202
deployment.apps/app rolled back
student@node-1:~$ kubectl rollout status deployment app -n kdpd00202

Answer: A

NEW QUESTION # 161
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

- A. Solution:


Readme
Web Terminal
THE LINUX FOUNDATION
apiVersion: apps/v1
kind: Deployment
metadata:
creationTimestamp: null
labels:
app: api
name: api
namespace: kdpd00201
spec:
replicas: 4
selector:
matchLabels:
app: api
strategy: {}
template:
metadata:
creationTimestamp: null
labels:
app: api
spec:
containers:
- image: lfccncf/nginx:1.13.7-alpine
name: nginx
resources: {}
status: {}
"nginx_deployment.yml" 25L, 421C
4,1
All
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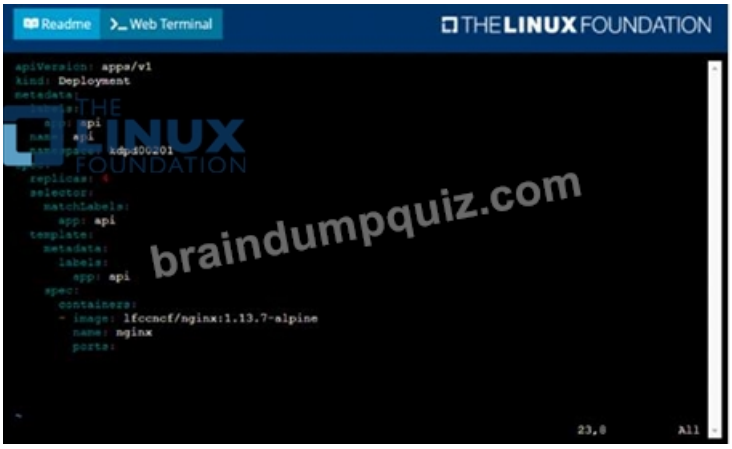
Readme
Web Terminal
THE LINUX FOUNDATION
23,0
All
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Readme
Web Terminal
THE LINUX FOUNDATION
student@node-1:~$ kubectl create deployment api --image=lfccncf/nginx:1.13.7-alpine --replicas=4
-n kdpd00201 --dry-run=client -o yaml > nginx_deployment.yml
student@node-1:~$ vim nginx_deployment.yml
student@node-1:~$ kubectl create nginx_deployment.yml
Error: must specify one of -f and -k
error: unknown command "nginx_deployment.yml"
See 'kubectl create -h' for help and examples
student@node-1:~$ kubectl create -f nginx_deployment.yml
error: error validating "nginx_deployment.yml": error validating data: ValidationError(Deployment
t.spec.template.spec): unknown field "env" in io.k8s.api.core.v1.PodSpec; if you choose to ignor
e these errors, turn validation off with --validate=false
student@node-1:~$ vim nginx_deployment.yml
student@node-1:~$ kubectl create -f nginx_deployment.yml
deployment.apps/api created
student@node-1:~$ kubectl get pods -n kdpd00201
NAME READY STATUS RESTARTS AGE
api-745677f7dc-7hnvm 1/1 Running 0 13s
api-745677f7dc-9q5vp 1/1 Running 0 13s
api-745677f7dc-fd4gk 1/1 Running 0 13s
api-745677f7dc-mbnpc 1/1 Running 0 13s
student@node-1:~$
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- B. Solution:

Answer: B

NEW QUESTION # 162
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