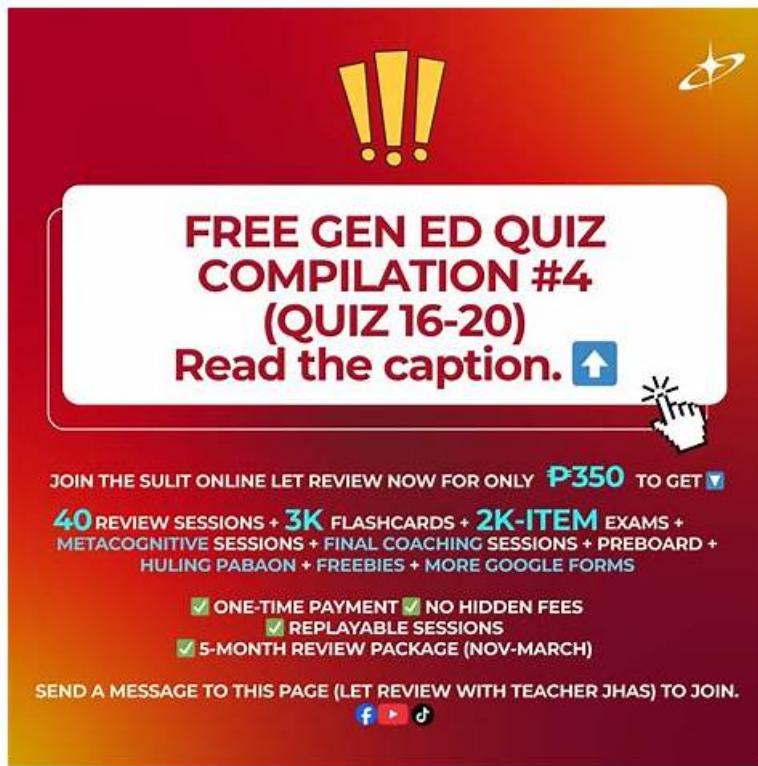


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## Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q73-Q78):

## NEW QUESTION # 73

You are deploying a resource-intensive application that requires a large amount of memory and CPU. How would you create a ResourceQuota to limit the resources consumed by this application and prevent it from impacting other workloads in the cluster?

### Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

I). Define the ResourceQuota:

- Create a ResourceQuota object named 'resource-limit' in the namespace where the application is deployed.
- Set the resource limits for the application by specifying the maximum allowed requests for CPU and memory.
- You can also set limits for other resources, such as pods and services.

```
apiVersion: v1
kind: ResourceQuota
metadata:
  name: resource-limit
spec:
  limits:
    requests.cpu: "2" # Set the maximum CPU request for the application
    requests.memory: "4Gi" # Set the maximum memory request for the application
    pods: "5" # Set the maximum number of Pods allowed for the application
```

2. Apply the ResourceQuota: - Apply the ResourceQuota configuration using 'kubectl apply -f resource-limit.yaml' 3. Test the Resource Limits. - Try to create or scale the resource-intensive application beyond the defined limits. - You should receive an error indicating that the ResourceQuota has been exceeded.

## NEW QUESTION # 74

Set configuration context:

```
[student@node-1] ~ $ kubectl config
use-context k8s
```



### Context

It is always useful to look at the resources your applications are consuming in a cluster.

### Task

- \* From the pods running in namespace 'cpu-stress', write the name only of the pod that is consuming the most CPU to file '/opt/KDOBG030/pod.txt', which has already been created.

### Answer:

Explanation:

See the solution below.

Explanation:

Solution:

```

student@node-1:~$ kubectl top pods -n cpu-stress
NAME          CPU(cores)   MEMORY(bytes)
max-load-98b9se   68m        6Mi
max-load-ab2d3s   21m        6Mi
max-load-kipb9a   45m        6Mi
student@node-1:~$ echo "max-load-98b9se" > /opt/kDOB00301/pod.txt

```

## NEW QUESTION # 75

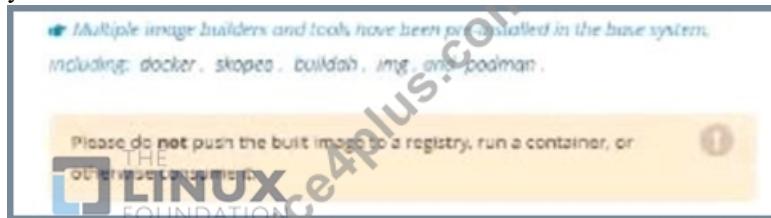
Context



Task:

A Dockerfile has been prepared at -/human-stork/build/Dockerfile

- Using the prepared Dockerfile, build a container image with the name macque and tag 3.0. You may install and use the tool of your choice.



- Using the tool of your choice export the built container image in OC-format and store it at -/human-stork/macque 3.0 tar

### Answer:

Explanation:

Solution:

```

candidate@node-1:~$ cd humane-stork/build/
candidate@node-1:~/humane-stork/build$ ls -l
total 16
-rw-r--r-- 1 candidate candidate 201 Sep 24 04:21 Dockerfile
-rw-r--r-- 1 candidate candidate 644 Sep 24 04:21 text1.html
-rw-r--r-- 1 candidate candidate 813 Sep 24 04:21 text2.html
-rw-r--r-- 1 candidate candidate 383 Sep 24 04:21 text3.html
candidate@node-1:~/humane-stork/build$ sudo docker build -t macaque:3.0 .
Sending build context to Docker daemon 6.144kB
Step 1/5 : FROM docker.io/tifccncl/nginx:mainline
--> ea335eea17ab
Step 2/5 : ADD text1.html /usr/share/nginx/html/
--> 8967ee9ee5d0
Step 3/5 : ADD text2.html /usr/share/nginx/html/
--> cb0554422f26
Step 4/5 : ADD text3.html /usr/share/nginx/html/
--> 62e879ab821e
Step 5/5 : COPY text2.html /usr/share/nginx/html/index.html
--> 331c8a94372c
Successfully built 331c8a94372c
Successfully tagged macaque:3.0
candidate@node-1:~/humane-stork/build$ sudo docker save macaque:3.0 > ~/humane-stork/macaque-3.0.tar
candidate@node-1:~/humane-stork/build$ cd ..
candidate@node-1:~/humane-stork$ ls -l
total 142532
drwxr-xr-x 2 candidate candidate 4096 Sep 24 04:21 build
-rw-rw-r-- 1 candidate candidate 145948672 Sep 24 11:39 macaque-3.0.tar
candidate@node-1:~/humane-stork$ 

```

## NEW QUESTION # 76

Refer to Exhibit.

You must switch to the correct cluster/configuration context. Failure to do so may result in a zero score.

[candidate@node1] ~ \$ kubectl config use-context **skills** THE



## Task:

Create a Deployment named expose in the existing ckad00014 namespace running 6 replicas of a Pod.

Specify a single container using the `ifccncl/nginx: 1.13.7` image. Add an environment variable named `NGINX_PORT` with the value `8001` to the container then expose port `8001`.

### Answer:

### Explanation:

**Solution:**

```

File Edit View Terminal Tabs Help
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl create deploy expose -n ckad00014 --image lfcncnf/nginx:1.13.7 --dry-run=client -o yaml> dep.yaml
candidate@node-1:~$ 
candidate@node-1:~$ 
candidate@node-1:~$ 
candidate@node-1:~$ 
candidate@node-1:~$ 
candidate@node-1:~$ 
candidate@node-1:~$ vim dep.yaml
candidate@node-1:~$ kubectl create -f dep.yaml
deployment.apps/expose created
candidate@node-1:~$ kubectl get pods -n ckad00014
NAME          READY   STATUS    RESTARTS   AGE
expose-85dd99d4d9-25675  0/1     ContainerCreating  0          6s
expose-85dd99d4d9-4fhcc  0/1     ContainerCreating  0          6s
expose-85dd99d4d9-fl07j  0/1     ContainerCreating  0          6s
expose-85dd99d4d9-tt6rm  0/1     ContainerCreating  0          6s
expose-85dd99d4d9-vjd8b  0/1     ContainerCreating  0          6s
expose-85dd99d4d9-vtzpq  0/1     ContainerCreating  0          6s
candidate@node-1:~$ kubectl get deploy -n ckad00014
NAME      READY   UP-TO-DATE   AVAILABLE   AGE
expose   6/6     6           6           15s
candidate@node-1:~$ 

```

## NEW QUESTION # 77

You are building a microservices application on Kubernetes, where two services, and 'service-b' , need to communicate with each other securely. 'Service-b' needs to expose a secure endpoint that is only accessible by 'service-a'. Describe how you would implement this using Kubernetes resources, including the configuration for the 'service-b' endpoint.

### Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Define a Kubernetes Secret:

- Create a Kubernetes secret to store the certificate and key pair for 'service-W'. This secret will be used to secure the communication.

- Example:

```

apiVersion: v1
kind: Secret
metadata:
  name: service-b-tls
type: kubernetes.io/tls
data:
  tls.crt:
  tls.key:

```

2. Configure 'service-b' Deployment: - Define a Deployment for 'service-b' , specifying a container that uses the secret for TLS. - Ensure that the container has the required dependencies and configuration to use TLS. - Example:

```

apiVersion: apps/v1
kind: Deployment
metadata:
  name: service-b-deployment
spec:
  replicas: 1
  selector:
    matchLabels:
      app: service-b
  template:
    metadata:
      labels:
        app: service-b
    spec:
      containers:
        - name: service-b
          image: your-image:latest
          ports:
            - containerPort: 8443
          volumeMounts:
            - name: service-b-tls
              mountPath: /var/tls/
      volumes:
        - name: service-b-tls
          secret:
            secretName: THE
            secretName: service-b-tls

```

3. Define a Kubernetes Service for 'service-b'. - Create a Service for 'service-b' that exposes the secure endpoint on a specific port (e.g., 8443) and uses the LoadBalancer' type for external access. - Use the 'targetPort' field to specify the container port that 'service-b' is listening on. - Example:

```

apiVersion: v1
kind: Service
metadata:
  name: service-b-service
spec:
  type: LoadBalancer
  ports:
    protocol: TCP
    port: 8443
    targetPort: 8443
  selector:
    app: service-b

```

4. Configure 'service-a' Deployment: - Define a Deployment for 'service-a', specifying a container that uses the secret for TLS when connecting to service-W. - Example:

```

apiVersion: apps/v1
kind: Deployment
metadata:
  name: service-a-deployment
spec:
  replicas: 1
  selector:
    matchLabels:
      app: service-a
  template:
    metadata:
      labels:
        app: service-a
    spec:
      containers:
        - name: service-a
          image: your-image:latest
          ports:
            - containerPort: 8080
      volumeMounts:
        - name: service-b-tls
          mountPath: /var/tls/
      volumes:
        - name: service-b-tls
          secret:
            secretName: service-b-tls

```

5. Update 'service-a' Container Configuration: - Within the 'service-a' container, ensure the application is configured to use the certificate and key from the mounted volume ('/var/tls') for secure communication with 'service-b'. 6. Verify Secure Communication: - Use 'kubectl get pods' to check the status of both 'service-a' and 'service-b' pods. - Test the communication between 'service-a' and 'service-b' by sending requests from the 'service-a' pod to the secure endpoint of 'service-b'. - Verify that the communication is secure and that 'service-a' can successfully access the endpoint. Notes: - You may need to adjust the port numbers and image names in the examples to match your specific setup. - Make sure you have the certificate and key in the correct format and base64 encoded before creating the Secret. - You can also use other methods like a Service Account and Role-Based Access Control (RBAC) to restrict access to the secure endpoint, if needed. - This is a simplified example and additional security measures may be required based on your application's requirements. ,

## NEW QUESTION # 78

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