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To pass the CKAD certification exam, developers need to have a deep understanding of Kubernetes and its components. They should also be familiar with containerization, networking, storage, security, and troubleshooting. CKAD exam consists of a set of performance-based tasks that require developers to perform various Kubernetes operations, such as creating and managing pods, deployments, services, and volumes. CKAD Exam is challenging, and developers need to prepare thoroughly to succeed. However, the effort is worth it, as CKAD certification can enhance their career prospects and open up new opportunities for growth and development in the industry.

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These mock tests are specially built for you to assess what you have studied. These Linux Foundation Certified Kubernetes Application Developer Exam (CKAD) practice tests are customizable, which means you can change the time and questions according to your needs. Taking practice exams teaches you time management so you can pass the Linux Foundation Certified Kubernetes Application Developer Exam (CKAD) exam. ValidTorrent's CKAD practice exam makes an image of a real-based examination which is helpful for you to not feel much pressure when you are giving the final examination.

Linux Foundation Certified Kubernetes Application Developer Exam Sample

Questions (Q180-Q185):

NEW QUESTION # 180
You have a Deployment named that runs 3 replicas of a Wordpress container. You need to implement a rolling update strategy that allows for a maximum or two pods to be unavailable at any given time during the update process. Additionally, you want to ensure that the update process is triggered automatically whenever a new image is pushed to the Docker Hub repository 'wordpress/wordpress:latest'.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. IJPdate the Deployment YAMLI
- Update the 'replicas to 2.
- Define 'maxunavailable: 2 and 'maxSurge: O' in the 'strategy.rollingupdate' section to control the rolling update process.
- Configure a 'strategy-type' to 'RollingUpdate' to trigger a rolling update when the deployment is updated.
- Add a 'spec-template-spec-imagePullPolicy: Always" to ensure that the new image is pulled even if it exists in the pod's local cache.

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: wordpress-deployment
spec:
  replicas: 2
  selector:
    matchLabels:
      app: wordpress
  template:
    metadata:
      labels:
        app: wordpress
    spec:
      containers:
      - name: wordpress
        image: wordpress/wordpress:latest
        imagePullPolicy: Always
  strategy:
    type: RollingUpdate
    rollingUpdate:
      maxUnavailable: 2
      maxSurge: 0
```

2. Create the Deployment - Apply the updated YAML file using 'kubectl apply -f wordpress-deploymentyamr 3. Verify the Deployment: - Check the status of the deployment using 'kubectl get deployments wordpress-deployment to confirm the rollout and updated replica count. 4. Trigger the Automatic Update: - Push a new image to the 'wordpress/wordpress:latest' Docker Hub repository. 5. Monitor the Deployment: - Use 'kubectl get pods -l app=wordpress' to monitor the pod updates during the rolling update process. You will observe that two pods are terminated at a time, while two new pods with the updated image are created. 6. Check for Successful Update: - Once the deployment is complete, use 'kubectl describe deployment wordpress-deployment' to see that the 'updatedReplicas' field matches the 'replicas' field, indicating a successful update.

NEW QUESTION # 181
Exhibit:

Context
A container within the poller pod is hard-coded to connect the nginxsvc service on port 90 . As this port changes to 5050 an

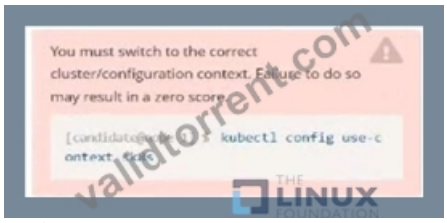
additional container needs to be added to the poller pod which adapts the container to connect to this new port. This should be realized as an ambassador container within the pod.
Task
* Update the nginxsvc service to serve on port 5050.
* Add an HAproxy container named haproxy bound to port 90 to the poller pod and deploy the enhanced pod. Use the image haproxy and inject the configuration located at /opt/KDMC00101/haproxy.cfg, with a ConfigMap named haproxy-config, mounted into the container so that haproxy.cfg is available at /usr/local/etc/haproxy/haproxy.cfg. Ensure that you update the args of the poller container to connect to localhost instead of nginxsvc so that the connection is correctly proxied to the new service endpoint. You must not modify the port of the endpoint in poller's args . The spec file used to create the initial poller pod is available in /opt/KDMC00101/poller.yaml

- A. Solution:
  apiVersion: apps/v1
  kind: Deployment
  metadata:
  name: my-nginx
  spec:
  selector:
  matchLabels:
  run: my-nginx
  - name: my-nginx
  image: nginx
  ports:
  - containerPort: 90
  This makes it accessible from any node in your cluster. Check the nodes the Pod is running on:
  kubectl apply -f ./run-my-nginx.yaml
  kubectl get pods -l run=my-nginx -o wide
  NAME READY STATUS RESTARTS AGE IP NODE
  my-nginx-3800858182-jr4a2 1/1 Running 0 13s 10.244.3.4 kubernetes-minion-905m
  my-nginx-3800858182-kna2y 1/1 Running 0 13s 10.244.2.5 kubernetes-minion-ljyd
  Check your pods' IPs:
  kubectl get pods -l run=my-nginx -o yaml | grep podIP
  podIP: 10.244.3.4
  podIP: 10.244.2.5
- B. Solution:
  apiVersion: apps/v1
  kind: Deployment
  metadata:
  name: my-nginx
  spec:
  selector:
  matchLabels:
  run: my-nginx
  replicas: 2
  template:
  metadata:
  labels:
  run: my-nginx
  spec:
  containers:
  - name: my-nginx
  image: nginx
  ports:
  - containerPort: 90
  This makes it accessible from any node in your cluster. Check the nodes the Pod is running on:
  kubectl apply -f ./run-my-nginx.yaml
  kubectl get pods -l run=my-nginx -o wide
  NAME READY STATUS RESTARTS AGE IP NODE
  my-nginx-3800858182-jr4a2 1/1 Running 0 13s 10.244.3.4 kubernetes-minion-905m
  my-nginx-3800858182-kna2y 1/1 Running 0 13s 10.244.2.5 kubernetes-minion-ljyd
  Check your pods' IPs:

kubectl get pods -l run=my-nginx -o yaml | grep podIP
podIP: 10.244.3.4
podIP: 10.244.2.5

Answer: B

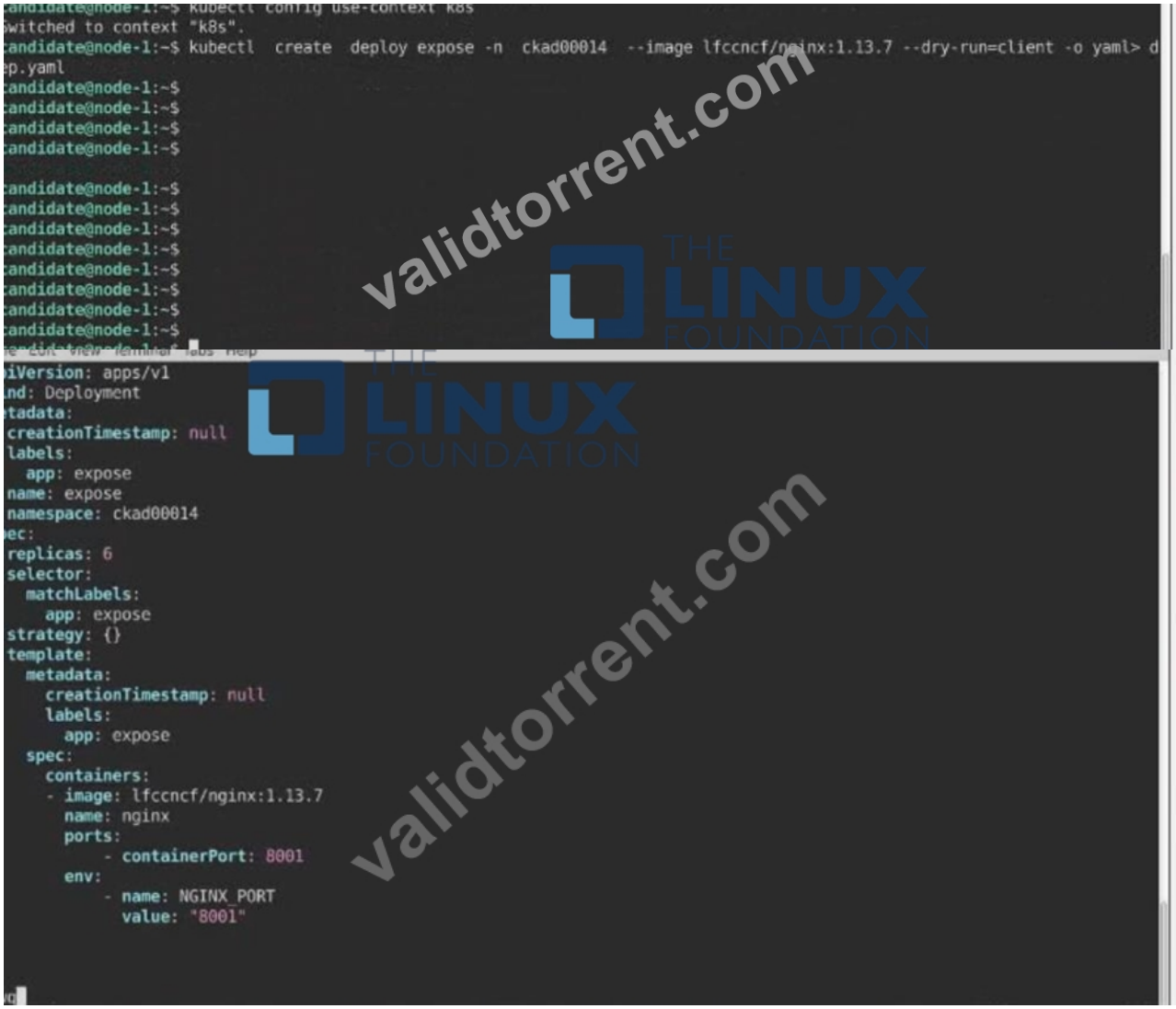
NEW QUESTION # 182
Refer to Exhibit.



Task:
Create a Deployment named expose in the existing ckad00014 namespace running 6 replicas of a Pod.
Specify a single container using the ifccncf/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:



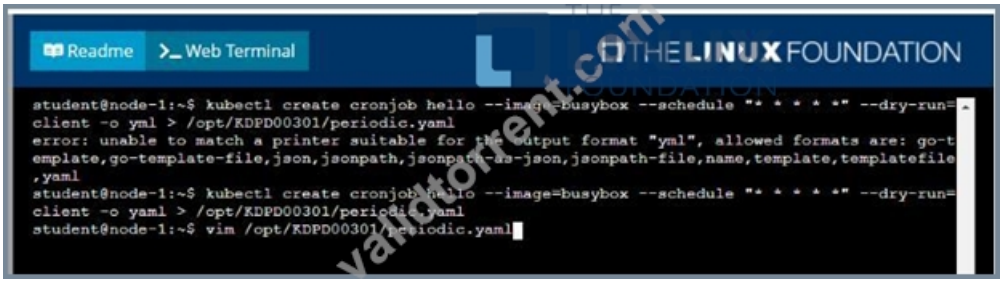
```
File  Edit  View  Terminal  Tabs  Help
andidate@node-1:~$ kubectl config use-context k8s
witched to context "k8s".
andidate@node-1:~$ kubectl  create  deploy expose -n  ckad00014  --image lfccncf/nginx:1.13.7 --dry-run=client -o yaml> d
p.yaml
andidate@node-1:~$
andidate@node-1:~$
andidate@node-1:~$
andidate@node-1:~$

andidate@node-1:~$
andidate@node-1:~$
andidate@node-1:~$
andidate@node-1:~$
andidate@node-1:~$
andidate@node-1:~$
andidate@node-1:~$
andidate@node-1:~$
andidate@node-1:~$ vim dep.yaml
andidate@node-1:~$ kubectl  create  -f dep.yaml
eployment.apps/expose created
andidate@node-1:~$ kubectl get pods -n ckad00014
AME                      READY   STATUS              RESTARTS   AGE
xpose-85dd99d4d9-25675   0/1     ContainerCreating   0          6s
xpose-85dd99d4d9-4fhcc   0/1     ContainerCreating   0          6s
xpose-85dd99d4d9-fld7j   0/1     ContainerCreating   0          6s
xpose-85dd99d4d9-tt6rm   0/1     ContainerCreating   0          6s
xpose-85dd99d4d9-vjd8b   0/1     ContainerCreating   0          6s
xpose-85dd99d4d9-vtzpq   0/1     ContainerCreating   0          6s
andidate@node-1:~$ kubectl  get deploy -n ckad00014
AME     READY   UP-TO-DATE   AVAILABLE   AGE
xpose   6/6     6            6           15s
andidate@node-1:~$
```

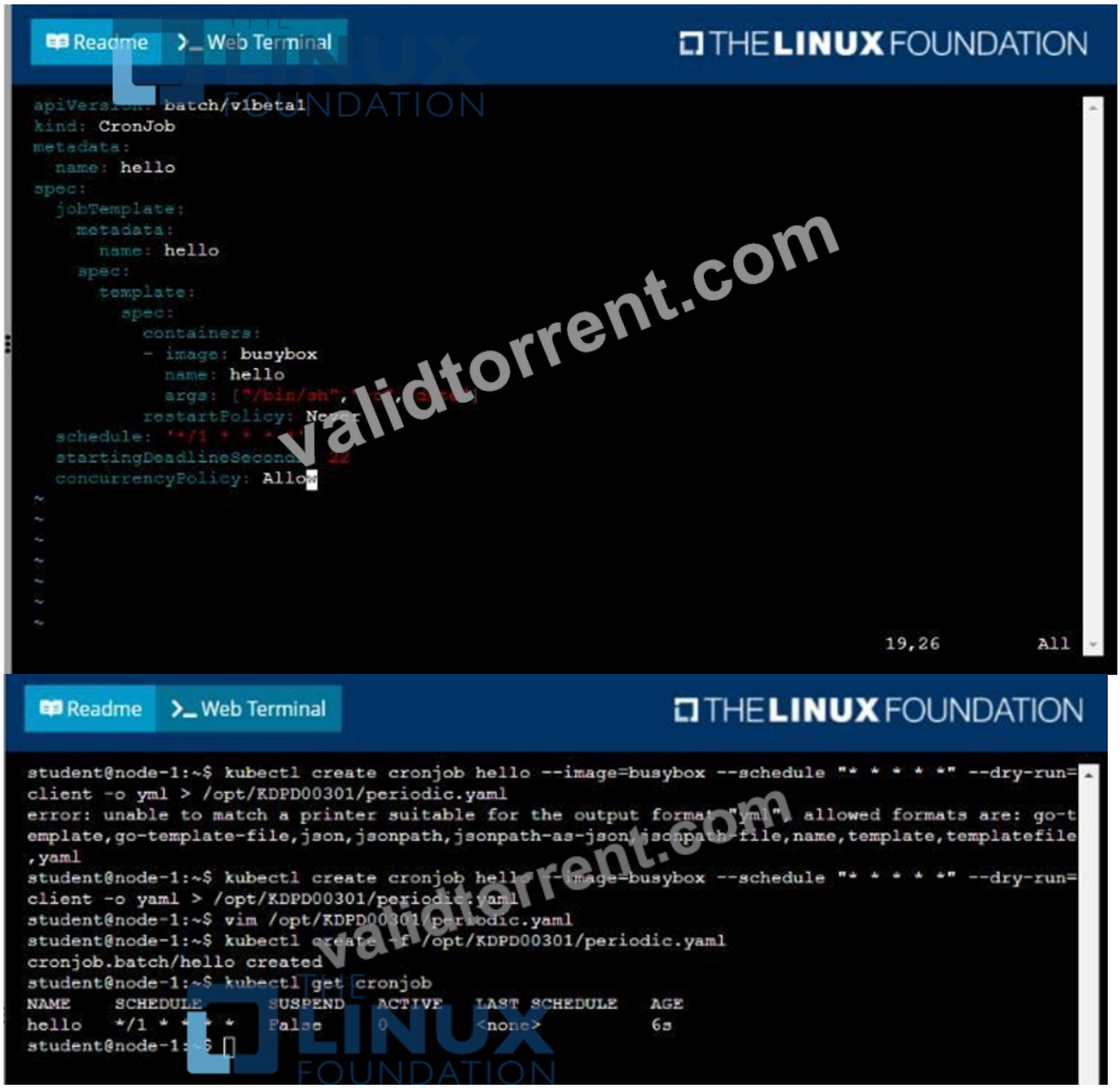

NEW QUESTION # 183

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 See the solution below.

Answer:

Explanation:
Explanation
Solution:





NEW QUESTION # 184
You have a Deployment named 'wordpress-deployment' that runs 3 replicas of a Wordpress container. You need to set up resource requests and limits for CPU and memory for each pod. The application requires a minimum of 250m CPU and 512Mi memory, but it should not exceed 500m CPU and IGi memory. Furthermore, implement a resource quota for the swordpress' namespace to ensure that the total CPU requests and limits do not exceed 2 CPIJ and 4Gi memory, respectively.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Update the Deployment YAML:
- Add 'resources' to the 'containers' section, setting 'requests' and 'limits' for both CPIJ and memory.
- The 'requests' should be set to the minimum required resources, and 'limits' to the maximum allowed.

2. Create the Deployment: - Apply the updated YAML file using 'kubectl apply -f wordpress-deployment-yamr 3. Create a Resource Quota: - Create a ResourceQuota YAML file named 'wordpress-quota.yaml' with the following contents:

4. Apply the Resource Quota: - Apply the ResourceQuota YAML file using 'kubectl apply -f wordpress-quota.yamr. 5. Verify the Deployment and Quota: - Check the status of the Deployment using 'kubectl get deployments wordpress-deployment' to confirm the updated resource requests and limits. - Use ' kubectl get resourcequotas -n wordpresS to verify the applied resource quota and its remaining limits- 6. Test Resource Limits: - Try to create a new Deployment or Pod in the 'wordpress' namespace that exceeds the resource quota limits. This should result in an error, ensuring the quota is enforced.

NEW QUESTION # 185

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