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The CKAD Exam is designed to help developers demonstrate their expertise in Kubernetes application development and gain recognition in the industry. Linux Foundation Certified Kubernetes Application Developer Exam certification is ideal for developers who work with Kubernetes on a daily basis and want to showcase their skills to potential employers. By passing the CKAD Exam, developers can prove their proficiency in building and managing cloud-native applications using Kubernetes and enhance their career prospects.

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2026 Linux Foundation CKAD: Linux Foundation Certified Kubernetes Application Developer Exam –High-quality High Passing Score

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The CKAD Certification is an essential certification for professionals who want to demonstrate their expertise in Kubernetes and its ecosystem. CKAD exam is designed for developers who are working on cloud-native applications or DevOps engineers who are responsible for deploying and managing Kubernetes clusters. Linux Foundation Certified Kubernetes Application Developer Exam certification validates a candidate's skills and knowledge in Kubernetes, Docker, and cloud-native application development, making them stand out in the job market.

Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q35-Q40):

NEW QUESTION # 35
You have a Kustomization file that uses a resource patch to modify the deployment of an Nginx service. The patch uses the field to set the CPLJ request for the container to 500m. However, you've noticed that this patch is no longer working as expected. You've been informed that the field has been deprecated and replaced with a new field structure in newer Kubernetes API versions. Explain how to update the Kustomization file to accommodate this change, ensuring compatibility with both older and newer Kubernetes versions.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Identify tne New Field Structure: Research the updated field structure for container resource definitions in the newer Kubernetes API version. The new structure likely utilizes nested resource fields for each container, like instead of a flat structure.
2. Update the Kustomization Patch: Modify the resource patch in your Kustomization file to use the updated field structure. If the newer field structure is 'spec-template-spec-containers[l.resources.requests.cpu' , update your patch accordingly. This could involve changing the patch's path or using a different patch strategy, such as a strategic merge patch.

```
# kustomization.yaml
resources:
  - deployment.yaml
patchesStrategicMerge:
  - patch.yaml

# patch.yaml
---
spec:
  template:
    spec:
      containers:
      - name: nginx
        resources:
          requests:
            cpu: 500m
```


3. Consider Conditional Patches: If you need to support both older and newer Kubernetes versions, utilize conditional patches in your Kustomization file. This allows you to apply different patcnes based on the Kubernetes API version detected. You can use Kustomize's 'patchJson6902' strategy With a conditional statement to apply the correct patch depending on the API version.

```
# kustomization.yaml
resources:
  - deployment.yaml
patchesStrategicMerge:
  - patch.yaml
patchesJson6902:
  - patch: |-
      {
        "op": "replace",
        "path": "/spec/template/spec/containers/0/resources/requests/cpu",
        "value": "500m"
      }
    target:
      kind: Deployment
      apiVersion: apps/v1
  - patch: |-
      {
        "op": "replace",
        "path": "/spec/template/spec/containers/0/resources/requests/cpu",
        "value": "500m"
      }
    target:
      kind: Deployment
      apiVersion: apps/v1beta1
```

4. Test the Updated Kustomization: Deploy your Kustomization to a cluster running both older and newer Kubernetes versions. Validate that the CPU requests are correctly applied to the Nginx deployment containers in each version. Verify that the patcnes are being applied appropriately based on the detected Kubernetes API version. 5. Document Changes: Ensure that the updated Kustomization file and any conditional logic are well-documented to prevent future confusion or errors when deploying to different Kubernetes environments. By following these steps, you can successfully update your Kustomization file to accommodate the deprecated field structure and ensure compatibility with different Kubernetes API versions. This will allow you to manage and configure your deployments effectively, even as Kubernetes evolves.

NEW QUESTION # 36

Exhibit:

Context

You have been tasked with scaling an existing deployment for availability, and creating a service to expose the deployment within your infrastructure.

Task

Start with the deployment named kdsn00101-deployment which has already been deployed to the namespace kdsn00101 . Edit it to:

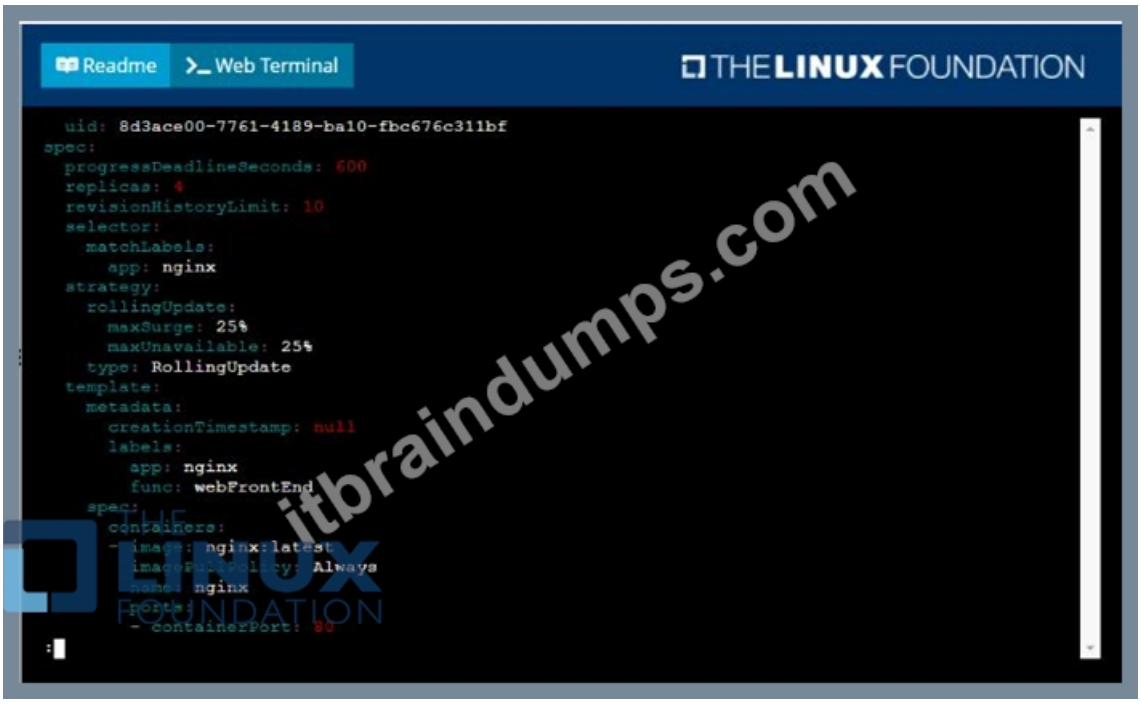
* Add the func=webFrontEnd key/value label to the pod template metadata to identify the pod for the service definition
* Have 4 replicas

Next, create ana deploy in namespace kdsn00l01 a service that accomplishes the following:

* Exposes the service on TCP port 8080
* is mapped to me pods defined by the specification of kdsn00l01-deployment
* Is of type NodePort
* Has a name of cherry

- A. Solution:

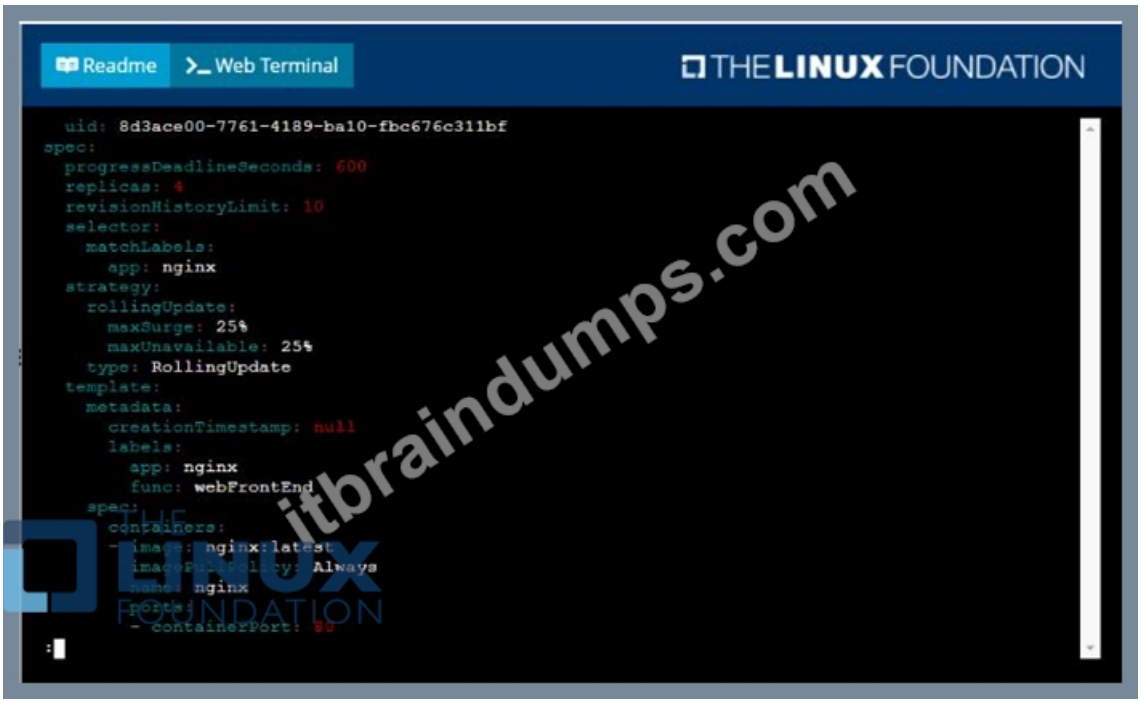

Readme
Web Terminal
THE LINUX FOUNDATION
Please edit the object below. Lines beginning with a '#' will be ignored,
and an empty file will abort the edit. If an error occurs while saving this file will be
reopened with the relevant failures.
#
apiVersion: apps/v1
kind: Deployment
metadata:
annotations:
deployment.kubernetes.io/revision: "1"
creationTimestamp: "2020-10-09T08:50:39Z"
generation: 1
labels:
app: nginx
name: kdsn00101-deployment
namespace: kdsn00101
resourceVersion: "4786"
selfLink: /apis/apps/v1/namespaces/kdsn00101/deployments/kdsn00101-deployment
uid: 8d3ace00-7761-4189-ba10-fbc676c311bf
spec:
progressDeadlineSeconds: 600
replicas: 1
revisionHistoryLimit: 10
selector:
matchLabels:
app: nginx
strategy:
"/tmp/kubectl-edit-d4y5r.yaml" 70L, 1957C
1,1
Top


Readme
Web Terminal
THE LINUX FOUNDATION
uid: 8d3ace00-7761-4189-ba10-fbc676c311bf
spec:
progressDeadlineSeconds: 600
replicas: 4
revisionHistoryLimit: 10
selector:
matchLabels:
app: nginx
strategy:
rollingUpdate:
maxSurge: 25%
maxUnavailable: 25%
type: RollingUpdate
template:
metadata:
creationTimestamp: null
labels:
app: nginx
func: webFrontEnd
spec:
containers:
- image: nginx:latest
imagePullPolicy: Always
name: nginx
ports:
- containerPort: 80


student@node-1:~$ kubectl edit deployment kdsn00101-deployment -n kdsn00101
deployment.apps/kdsn00101-deployment edited
student@node-1:~$ kubectl get deployment kdsn00101-deployment -n kdsn00101
NAME READY UP-TO-DATE AVAILABLE AGE
kdsn00101-deployment 4/4 4 4 7h17m
student@node-1:~$ kubectl expose deployment kdsn00101-deployment -n kdsn00101 --type NodePort --
port 8080 --name cherry
service/cherry exposed

- B. Solution:


student@node-1:~$ kubectl edit deployment kdsn00101-deployment -n kdsn00101



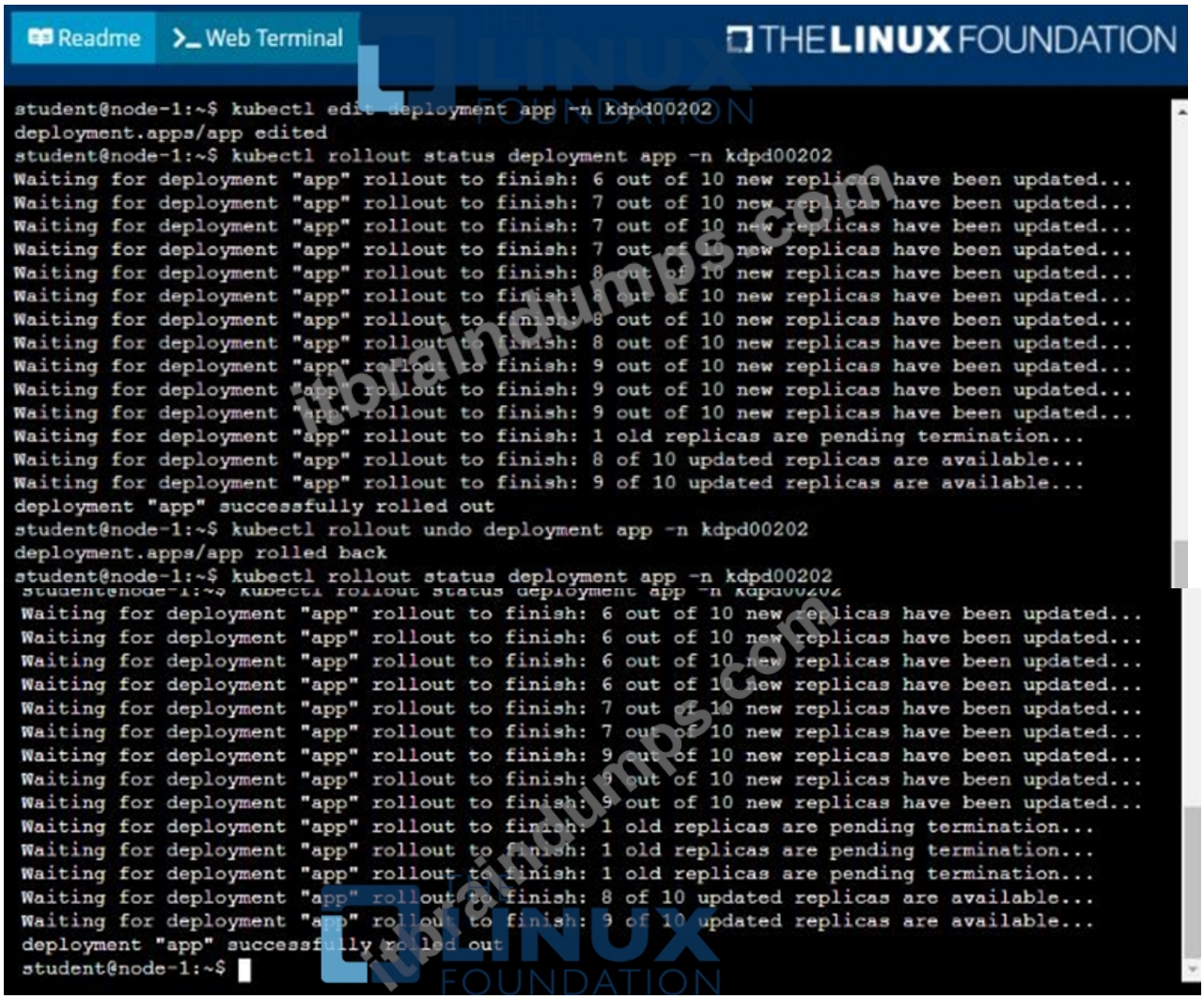
Answer: A

NEW QUESTION # 37
Refer to 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

Answer:

Explanation:
Solution:



NEW QUESTION # 38
You have a microservice that is deployed in a Kubernetes cluster, and you want to monitor its performance and health using Prometheus and Grafan a. How can you configure Prometneus to scrape metrics from your microservice and create dashboards in Grafana?

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Enable Metrics in Your Microservice:
- Ensure your microservice exposes metrics through an HTTP endpoint using a library like Prometheus Client (for Java), Go metrics, or StatsD.
- Define metrics such as request count, latency, error rate, and other relevant performance indicators.
2. Deploy Prometheus:
- Deploy Prometheus using a 'Deployment and a 'Service'
- Configure Prometheus to scrape metrics trom the microservice by adding its endpoint to the 'scrape_configs' in the 'prometheus.yaml' file.

```
scrape_configs:
- job_name: 'my-microservice'
  static_configs:
  - targets: ['my-microservice-service:9100']
```

3. Create a Service for Prometheus to Access the Microservice: - Create a 'Service' of type 'ClusterlP' that exposes the microservice's metrics endpoint (usually port 9100). - Ensure Prometheus can reacn this service. 4. Deploy Grafana: - Deploy

Gratana using a 'Deployment' and a 'Service' - Configure Grafana to connect to Prometheus as a data source. 5. Create Dashboards in Grafana: - Use Grafana's dashboard builder to create custom dashboards that visualize the metrics collected by Prometheus. - Add panels to display graphs, charts, and tables that show the performance and health ot your microservice. 6. Configure Alerts in Grafana: - Configure alerts in Grafana based on specific metrics and thresholds. - Set up notifications to alert you when critical issues arise with the microservice. Note: This approach provides comprehensive monitoring for your microservice. Prometheus scrapes metrics from the microservice, stores them in its time series database, and Grafana visualizes these metrics and provides alerts for potential issues. Example Prometheus Scrape Configuration:

```
scrape_configs:
- job_name: 'my-microservice'
  static_configs:
  - targets: ['my-microservice-service:9100']
  # Optional: Use a service discovery mechanism to automatically detect microservice pods
  # discovery:
  #   kubernetes_sd_configs:
  #   - role: service
  #     names: ['my-microservice']
```

Example Grafana Dashboard: - Create a dashboard with panels that show the following metrics: - Request count per minute - Average request latency - Error rate - CPU and memory usage of the microservice container - Set up alerts to notify you it: - The request count exceeds a certain threshold - The average latency exceeds a certain threshold - The error rate exceeds a certain threshold - The CPU or memory usage exceeds a certain threshold,

NEW QUESTION # 39

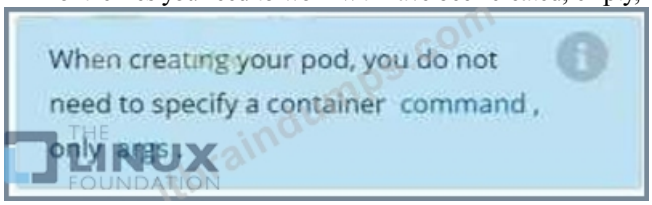
Context

Anytime a team needs to run a container on Kubernetes they will need to define a pod within which to run the container.

Task

Please complete the following:

* Create a YAML formatted pod manifest /opt/KDPD00101/pod1.yml to create a pod named app1 that runs a container named app1cont using image lfccncf/arg-output with these command line arguments: -lines 56 -F
* Create the pod with the kubect1 command using the YAML file created in the previous step
* When the pod is running display summary data about the pod in JSON format using the kubect1 command and redirect the output to a file named /opt/KDPD00101/out1.json
* All of the files you need to work with have been created, empty, for your convenience



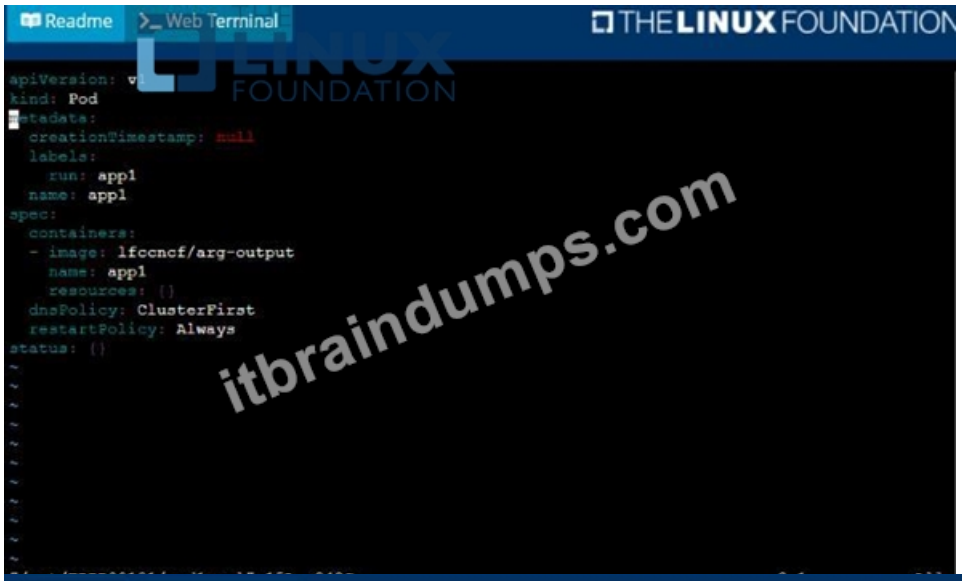
Answer:

Explanation:

See the solution below.

Explanation

Solution:


Readme
Web Terminal
THE LINUX FOUNDATION
apiVersion: v1
kind: Pod
metadata:
creationTimestamp: null
labels:
run: app1
name: app1
spec:
containers:
- image: lfccncf/arg-output
name: app1
resources: {}
dnsPolicy: ClusterFirst
restartPolicy: Always
status: {}
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Readme
Web Terminal
THE LINUX FOUNDATION
apiVersion: v1
kind: Pod
name: app1
containers:
- image: lfccncf/arg-output
name: app1
args: ["--lines","56","-f"]
11,30
All
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pod/app1 created
student@node-1:~$ kubectl get pods
NAME READY STATUS RESTARTS AGE
app1 0/1 ContainerCreating 0 5s
counter 1/1 Running 0 4m44
liveness-http 1/1 Running 0 6h50
nginx-101 1/1 Running 0 6h51
nginx-configmap 1/1 Running 0 6m21
nginx-secret 1/1 Running 0 11m
poller 1/1 Running 0 6h51
student@node-1:~$ kubectl get pods
NAME READY STATUS RESTARTS AGE
app1 1/1 Running 0 26s
counter 1/1 Running 0 5m5s
liveness-http 1/1 Running 0 6h50m
nginx-101 1/1 Running 0 6h51m
nginx-configmap 1/1 Running 0 6m42s
nginx-secret 1/1 Running 0 12m
poller 1/1 Running 0 6h51m
student@node-1:~$ kubectl delete pod app1
pod "app1" deleted
student@node-1:~$ vim /opt/KDPD00101/pod1.yml
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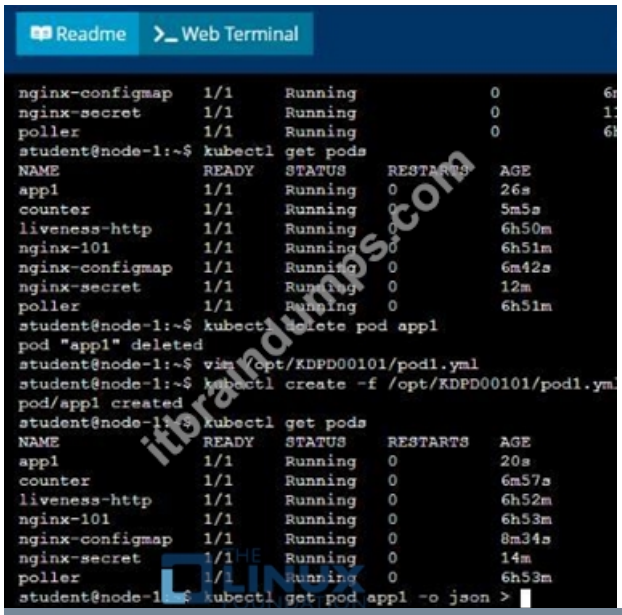

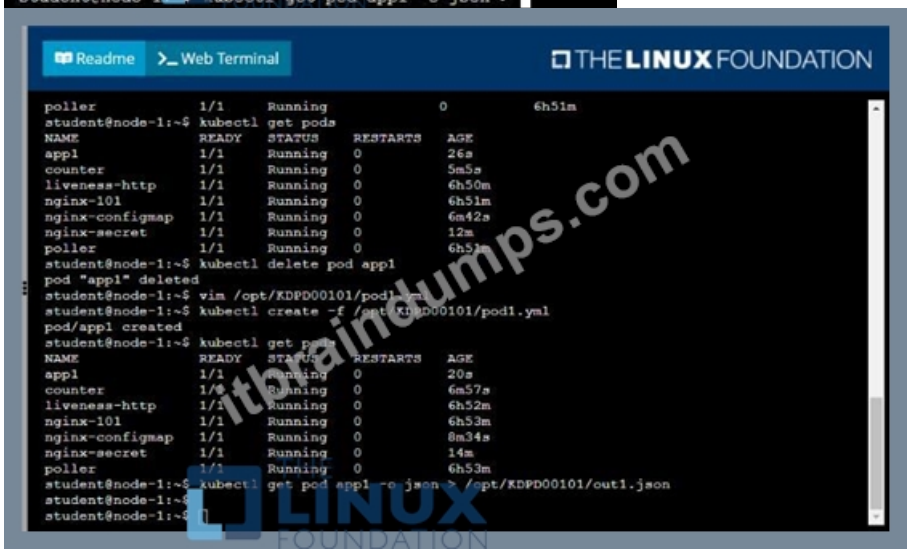

NEW QUESTION # 40

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