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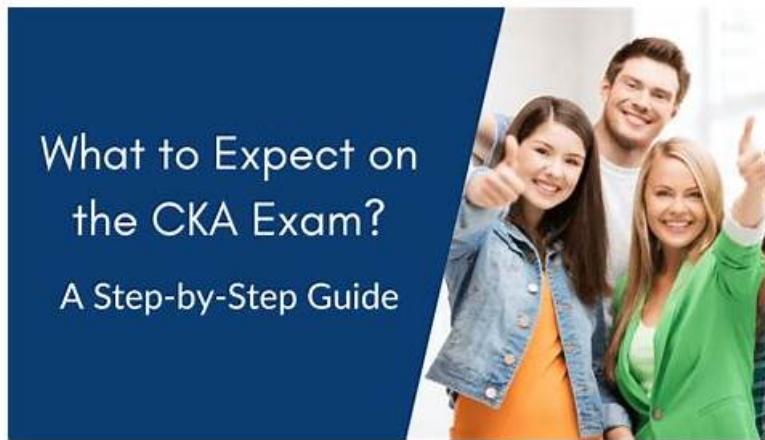

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Linux Foundation Certified Kubernetes Administrator (CKA) program is a certification exam that is designed to test an individual's knowledge and skills when it comes to deploying, managing, and troubleshooting Kubernetes clusters. Kubernetes is a powerful tool that is used for container orchestration, and it has become increasingly popular in recent years due to the rise of containerization. The CKA program is an excellent way for professionals to showcase their expertise in Kubernetes and demonstrate their ability to work with this technology in a real-world environment.

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The CNCF CKA Certification Exam is in demand in various countries. The demand for the CNCF Certified Kubernetes Administrator exam is high in many countries. Prospective clients will be able to find the benefits after obtaining the certification compared to other alternatives. The organizations preparing for the certification exam will be able to provide an employment opportunity for the certified engineering professionals. Component Providers will be able to find the benefits after obtaining the certification compared to other alternatives. Ingress and Rest components will be able to find the benefits after obtaining the certification compared with other alternatives. **CNCF CKA exam dumps** are the best option to pass the exam. The CNCF CKA certification exam will be beneficial for candidates with an interest in Kubernetes development. A variety of IT jobs will be available after obtaining the certification compared to other alternatives. Software developers, IT specialists, and software engineers will be able to find numerous positions after obtaining the verification. Configuring Kubernetes will prove to be of value for IT professionals who want to get into the IT industry.

A lot of software engineers are being employed by various organizations due to the demand for the CNCF Certified Kubernetes Administrator certification exam. Logging and Monitoring will be of value to IT professionals. IT professionals who want to work in the IT industry should take interest in getting the certification Exam. The job market will be an excellent place for software engineers and software developers after obtaining the certification. Scratch your name, handle, and email on the CNCF CKA Certification Exam website. Evaluation of the certification is done after acquiring the CNCF CKA Certification Exam. Marry: After obtaining the

certification, you can get married. The salary of IT professionals who work in the IT industry is increasing. The certificate will be issued online after gaining the CNCF CKA Certification Exam.

Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam Sample Questions (Q14-Q19):

NEW QUESTION # 14
Check the Image version of nginx-dev pod using jsonpath

Answer:

Explanation:
kubect1 get po nginx-dev -o
jsonpath='{.spec.containers[].image} {"\n"}'

NEW QUESTION # 15
Explain the concept of "volume mode" for PersistentVolumes and how it differs between "Block" and "Filesystem" mode. Provide examples of when each mode would be most suitable.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
Volume Mode:
The volume mode defines how a PersistentVolume is presented to the pods. It specifies whether the volume is exposed as a block device or a file system.
Block Mode:
- Description: Presents the volume as a block device directly to the pod. This allows for low-level access and control over the storage.
- Suitable for:
- Databases requiring direct block access (e.g., MySQL, PostgreSQL)
- Applications that need to directly manage the storage layout
- High-performance storage scenarios where low-level access is beneficial Filesystem Mode:
- Description: Presents the volume as a file system to the pod. This allows for accessing the storage through standard file system operations.
- Suitable for:
- General-purpose applications requiring file system-based storage
- Applications that store data in files and directories (e.g., web servers, application code)
- Scenarios where simplicity and ease of use are prioritized
Example:
- Block Mode: A MySQL database pod would utilize a block volume to ensure low-level control over the storage, optimize performance, and manage data files efficiently.
- Filesystem Mode: A web server pod storing website files and logs would typically use a file system volume for ease of access and management.

NEW QUESTION # 16
Create 5 nginx pods in which two of them is labeled env=prod and
three of them is labeled env=dev

- A. kubectl run nginx-dev1 --image=nginx --restart=Never --
  labels=env=dev
  kubectl run nginx-dev2 --image=nginx --restart=Never --
  labels=env=dev
  kubectl run nginx-dev3 --image=nginx --restart=Never --
  labels=env=dev
  kubectl run nginx-prod1 --image=nginx --restart=Never --

- B. kubectl run nginx-dev1 --image=nginx --restart=Never --
  labels=env=dev
  kubectl run nginx-dev2 --image=nginx --restart=Never --
  labels=env=dev
  kubectl run nginx-prod1 --image=nginx --restart=Never --
  labels=env=prod
  kubectl run nginx-prod2 --image=nginx --restart=Never --
  labels=env=prod

Answer: A

NEW QUESTION # 17
Create a deployment spec file that will:
* Launch 7 replicas of the nginx Image with the labelapp_runtime_stage=dev
* deployment name: kual00201
Save a copy of this spec file to /opt/KUAL00201/spec_deployment.yaml
(or /opt/KUAL00201/spec_deployment.json).
When you are done, clean up (delete) any new Kubernetes API object that you produced during this task.

Answer:
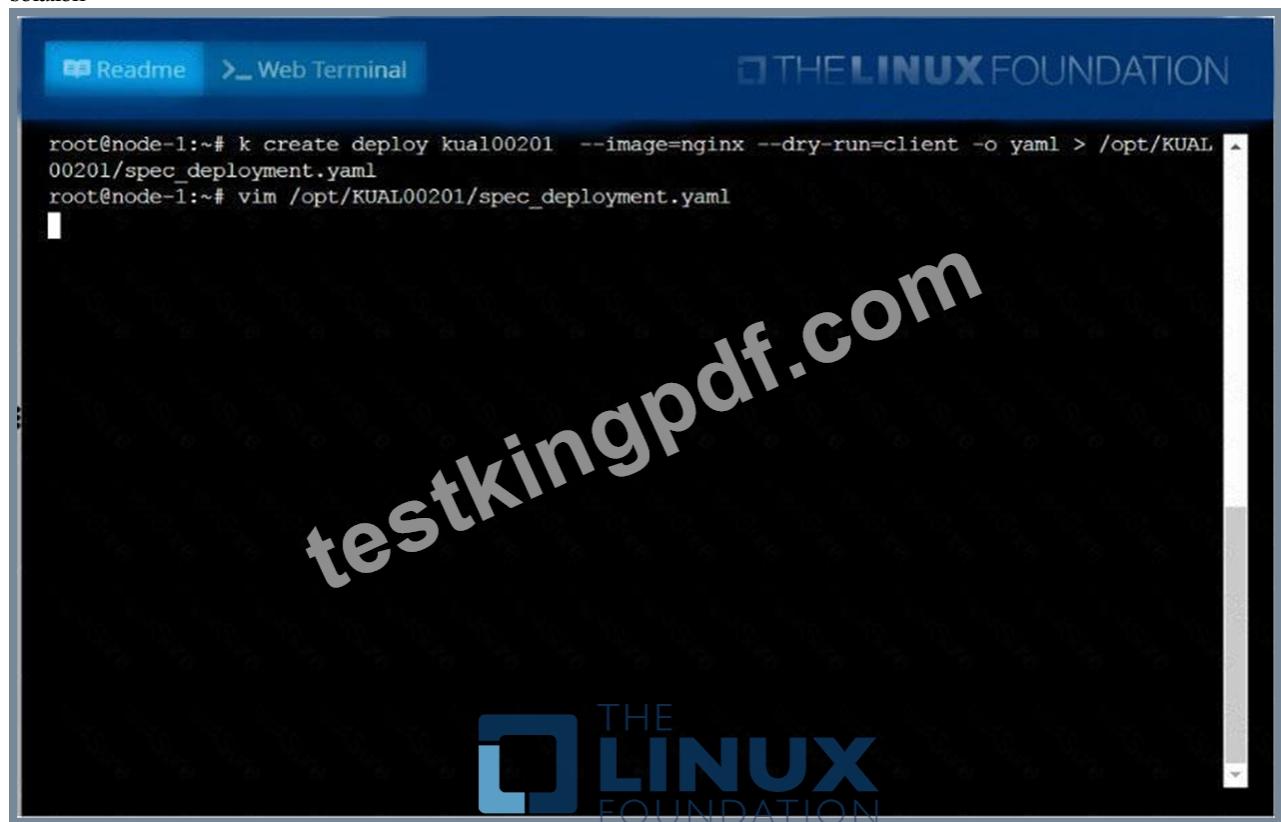
Explanation:
See the solution below.
Explanation
solution
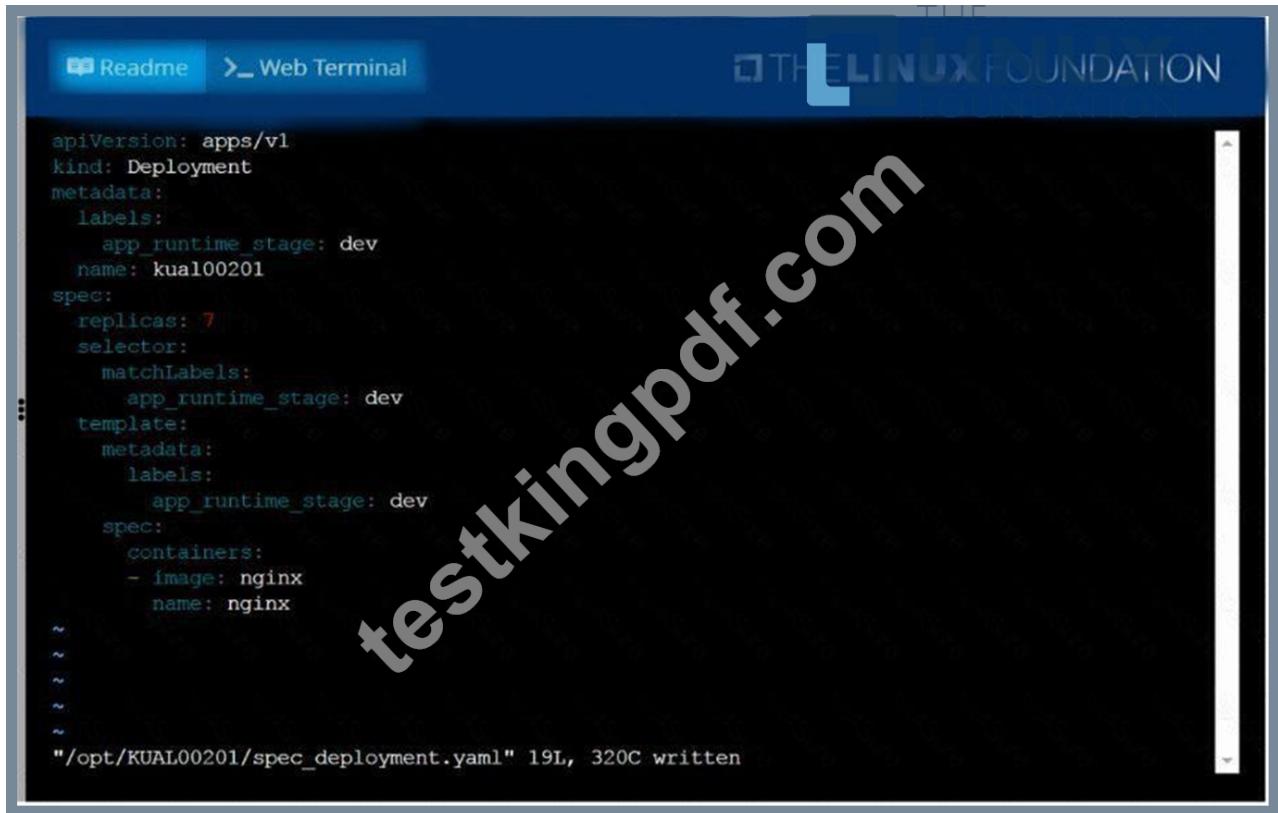
```
apiVersion: apps/v1
kind: Deployment
metadata:
  labels:
    app_runtime_stage: dev
  name: kual00201
spec:
  replicas: 7
  selector:
    matchLabels:
      app_runtime_stage: dev
  template:
    metadata:
      labels:
        app_runtime_stage: dev
    spec:
      containers:
      - image: nginx
        name: nginx
~
~
~
~
~
"/opt/KUAL00201/spec_deployment.yaml" 19L, 320C written
```

NEW QUESTION # 18
Schedule a pod as follows:
Name: nginx-kusc00101
Image: nginx
Node selector: disk=ssd

Answer:

Explanation:
See the solution below.
Explanation
solution
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Readme >_ Web Terminal

```
root@node-1:~# vim disk.yaml
```

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Readme >_ Web Terminal

```
apiVersion: v1
kind: Pod
metadata:
  name: nginx-kusc00101
spec:
  containers:
  - name: nginx
    image: nginx
    imagePullPolicy: IfNotPresent
  nodeSelector:
    disk: ssd
~
~
~
~
~
~
~
~
~
~
~
~
"disk.yaml" [New] 11L, 176C written
```

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```
root@node-1:~# vim disk.yaml
root@node-1:~# k create -f disk.yaml
pod/nginx-kusc00101 created
root@node-1:~# k get po
NAME                        READY   STATUS    RESTARTS   AGE
cpu-utilizer-98b9se         1/1     Running   0          5h59m
cpu-utilizer-ab2d3s         1/1     Running   0          5h59m
cpu-utilizer-kipb9a         1/1     Running   0          5h59m
ds-kusc00201-2r2k9          1/1     Running   0          13m
ds-kusc00201-hzm9q          1/1     Running   0          13m
foo                         1/1     Running   0          6h1m
front-end                   1/1     Running   0          6h1m
hungry-bear                 1/1     Running   0          9m37s
kucc8                       3/3     Running   0          7m37s
nginx-kusc00101             1/1     Running   0          9s
webserver-84c55967f4-qzjcv  1/1     Running   0          6h16m
webserver-84c55967f4-       1/1     Running   0          6h16m
root@node-1:~#
```

NEW QUESTION # 19

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