

CKA Reliable Test Bootcamp & CKA Test Engine Version



Certified Kubernetes Administrator (CKA) Certification BootCamp
Duration: 4 Days

COURSE OUTLINE

DAY 1

- Kubernetes Overview
- Kubernetes Architecture
- Installation, Configuration & Validation
- Kubernetes Pods
- Kubernetes Services
- Application Lifecycle Management

DAY 2

- Storage
- Workloads & Scheduling
- Security

DAY 3

- Cluster Maintenance
- Networking Deep Dive
- Logging/Monitoring

DAY 4

- Troubleshooting
- CKA Overview

DESCRIPTION

This course aims to help participants prepare for Certified Kubernetes Administrator examination by the Cloud Native Computing Foundation (CNCF). Hence the outline is derived out of the CKA curriculum published by CNCF and the entire course is based on Kubernetes clusters built using Kubeadm and by using Kubernetes version 1.14

Kubernetes Essentials course and Certified Kubernetes Application Developer course are mandatory pre-requisite to take up prior to taking this course, as many of the essential topics of CKA are covered as part of Kubernetes Essentials course and CKAD course.

OBJECTIVES

- Creating a Kubernetes cluster with version 1.14 of Kubernetes using Kubeadm
- Understand how scheduling happens in Kubernetes
- Understand security measures in your Kubernetes cluster
- Performing Installation, Configuration and Validation of a HA Cluster
- CKA exam overview
- Understanding various troubleshooting scenarios in Kubernetes
- Understand how to manage Logging and Monitoring in Kubernetes
- Practice cluster maintenance scenarios
- Deep dive into Kubernetes networking
- Understanding package management with Helm

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CNCF CKA Certification Exam Prep Materials

You can find the test materials that are available to help you prepare for the CNCF CKA Certification Exam. PDFVCE has the CNCF CKA Certification Exam questions and answers. There is a basic question and answer format to the materials. The competition has made this exam harder to pass, which means that students will need to be well prepared for it. A guarantee will be available to help you pass the CNCF CKA Certification Exam. **CNCF CKA exam dumps** have been prepared by experts to help students prepare for the CNCF CKA Certification Exam. Online certification exams will be required and must be completed before you can register for the exam. The materials that are available will only be found on the website. Support will be available if you have questions while you are studying for the CNCF CKA Certification Exam. The materials that are available will help you pass your exams without a problem. Study guides will help students study for the CNCF CKA Certification Exam. Updated information will be available to help students understand the concepts that they are learning about.

Self-paced study will be ideal for people who have busy schedules and can not spend a lot of time studying. Success in the exam will be guaranteed. Money back guarantee will be provided to help you make a decision on what to choose. Path will be available for the CNCF CKA Certification Exam. One of the ways students can make decisions is through having access to real time statistics. The CNCF CKA Certification Exam will determine whether you are successful or not. Security and confidentiality will be provided to help you succeed. The CNCF CKA Certification Exam can either be done online or in person. Ensure that the information you are studying for is right in order to get the right results. Pod will be available for the CNCF CKA Certification Exam. Networking will be available for the CNCF CKA Certification Exam. Service is important for the CNCF CKA Certification Exam.

The CKA certification exam is a rigorous, performance-based assessment designed to evaluate an individual's knowledge and ability to install, configure, and manage Kubernetes clusters. CKA Exam is conducted in a live, lab-based environment, which ensures that candidates have hands-on experience with Kubernetes and are able to demonstrate their proficiency in a real-world setting.

CNCF CKA Certification Exam Experience

The one thing I have been constantly aware of after getting my certification is how much I have been able to help out with the company. Prior to getting the certification, all I used to do was oversee projects and do work in a design capacity, but now that I have this certification, people constantly come to me for help with problems they are having. The interactive exam is available online. Delivery will be done within six weeks of the exam. Absolutely no writing is done during the CNCF CKA Certification Exam.

After going through what you have to go through in order to get your certification, it is no wonder why there are so many people out there that are willing to pay for your services. Studied from a reliable source will help you get the CNCF CKA Certification Exam. Suggested by your colleagues will help you get the CNCF CKA Certification Exam. **CNCF CKA exam dumps** will help you get the CNCF CKA Certification Exam. Many IT professionals will opt for this certification. This certification is recognized worldwide. A lot of companies offer this certification. The cost of getting this certification is affordable compared to the benefits of having it. Core skills such as Chef and Kubernetes will help you get the CNCF CKA Certification Exam. Persistent will help you get the CNCF CKA Certification Exam. The CNCF Certified Kubernetes Administrator exam is only available in English. Tools such as Docker and OpenShift will help you get the CNCF CKA Certification Exam. Consistent knowledge of Kubernetes, chef, and docker will help you get the CNCF CKA Certification Exam. Nodes will help you get the CNCF CKA Certification Exam. Users should pay attention to the fact that they should choose a platform that can be accessed from various devices. Infrastructure experts will help you get the CNCF CKA Certification Exam.

>> **CKA Reliable Test Bootcamp** <<

CKA Test Engine Version & Reliable CKA Exam Questions

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Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam Sample Questions (Q61-Q66):

NEW QUESTION # 61

You need to deploy a microservice application that uses a custom DNS service for internal communication between microservices. This DNS service is not a standard Kubernetes DNS service. How would you configure Kubernetes to use your custom DNS service for the internal communication of your application?

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Create a ConfigMap for DNS Configuration:

- Create a ConfigMap to store the DNS configuration details for your custom DNS service.

- Example:

- Replace '10.0.0.1 ,10.0.0.2 with the IP addresses of your custom DNS servers and 'my-app.svc.cluster.local' with the search domain for your application. 2. Create a DaemonSet for DNS Configuration: - Create a DaemonSet that will inject the custom DNS

configuration into all pods in your cluster. - Example:

□ - This DaemonSet will use a 'busybox' container to write the DNS configuration from the 'custom-dns-config' ConfigMap to the /etc/resolv.conf file in every pod. 3. Deploy your Application: - Deploy your microservice application with the appropriate labels to ensure that the DaemonSet injects the custom DNS configuration into your application's pods. 4. Verify DNS Resolution: - Verify that your application's pods can resolve internal DNS names using your custom DNS service. - Example: - You can use the 'nslookup' command within a pod to test DNS resolution. 5. Configure Security: - Implement appropriate security measures to protect your custom DNS service and prevent unauthorized access to your application's internal services. - Example: - Consider using a firewall to restrict access to the custom DNS servers. - Configure access control lists to limit access to the DNS service.

NEW QUESTION # 62

Create 2 nginx image pods in which one of them is labelled with env=prod and another one labelled with env=dev and verify the same.

Answer:

Explanation:

See the solution below.

Explanation

kubectl run --generator=run-pod/v1 --image=nginx -- labels=env=prod nginx-prod --dry-run -o yaml > nginx-prodpod.yaml Now, edit nginx-prod-pod.yaml file and remove entries like "creationTimestamp: null"

"dnsPolicy: ClusterFirst"

vim nginx-prod-pod.yaml

apiVersion: v1

kind: Pod

metadata:

labels:

env: prod

name: nginx-prod

spec:

containers:

- image: nginx

name: nginx-prod

restartPolicy: Always

kubectl create -f nginx-prod-pod.yaml

kubectl run --generator=run-pod/v1 --image=nginx --

labels=env=dev nginx-dev --dry-run -o yaml > nginx-dev-pod.yaml

apiVersion: v1

kind: Pod

metadata:

labels:

env: dev

name: nginx-dev

spec:

containers:

- image: nginx

name: nginx-dev

restartPolicy: Always

kubectl create -f nginx-prod-dev.yaml

Verify :

kubectl get po --show-labels

kubectl get po -l env=prod

kubectl get po -l env=dev

NEW QUESTION # 63

You have a Deployment named 'my-app' with 5 replicas running an application container. You need to implement a rolling update strategy that allows for a maximum of 2 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 'my.org/my-app:latest'.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Update the Deployment YAML:

- Update the 'replicas' to 5.
- Define 'maxUnavailable: 2' and 'maxSurge: 0' 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.

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

NEW QUESTION # 64

Create a file:

/opt/KUCC00302/kucc00302.txt that lists all pods that implement service bazin namespace development.

The format of the file should be one pod name per line.

Answer:

Explanation:

See the solution below.

Explanation

solution

□

NEW QUESTION # 65

Create a Job with an image node which prints node version and verifies there is a pod created for this job

- A.

```
kubectl create job nodeversion --image=node -- node -v
kubectl get job -w
kubectl get pod
YAML File:
apiVersion: batch/v1
kind: Job
metadata:
labels:
job-name: nodeversion
name: nodeversion
spec:
completions: 1
parallelism: 1
labels:
job-name: nodeversion
spec:
containers:
- command:
- node
- -v
image: node
imagePullPolicy: Always
name: nodeversion
```

- restartPolicy: Never
- B. `kubectl create job nodeversion --image=node -- node -v`
`kubectl get job -w`
`kubectl get pod`
YAML File:
`apiVersion: batch/v1`
`kind: Job`
`metadata:`
`labels:`
`job-name: nodeversion`
`name: nodeversion`
`spec:`
`completions: 1`
`parallelism: 1`
`selector:`
`matchLabels:`
`job-name: nodeversion`
`template:`
`metadata:`
`labels:`
`job-name: nodeversion`
`spec:`
`containers:`
`- command:`
`- node`
`- -v`
`image: node`
`imagePullPolicy: Always`
`name: nodeversion`
`restartPolicy: Never`

Answer: B

NEW QUESTION # 66

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