

Positive CKA Feedback, Exam CKA Blueprint

Certified Kubernetes Administrator (CKA)
Summary of domains and topics. Generated on August 22, 2025
Exam Blueprint - v1.33

This document summarizes the official CKA exam domain areas and topics.
Use it as a printable checklist while preparing.

Note: Always verify the latest blueprint on kubernetes.io before the exam.

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The web-based Linux Foundation CKA practice exam is compatible with all browsers like Chrome, Mozilla Firefox, MS Edge, Internet Explorer, Safari, Opera, and more. Unlike the desktop version, it requires an internet connection. The Certified Kubernetes Administrator (CKA) Program Exam (CKA) practice exam will ask real Certified Kubernetes Administrator (CKA) Program Exam (CKA) exam questions.

Linux Foundation CKA (Certified Kubernetes Administrator) program is a certification that recognizes an individual's expertise in managing and deploying applications on the Kubernetes platform. Certified Kubernetes Administrator (CKA) Program Exam certification is designed for professionals who have a solid understanding of Kubernetes and its underlying components, including networking, storage, security, and cluster architecture. The CKA program is ideal for individuals who are looking to enhance their Kubernetes skillset and are interested in pursuing a career in DevOps, cloud computing, or containerization.

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PracticeTorrent offers authentic CKA questions with accurate answers in their Certified Kubernetes Administrator (CKA) Program Exam Exam practice questions file. These exam questions are designed to enhance your understanding of the concepts and improve your knowledge of the CKA Quiz dumps. By using these questions, you can identify your weak areas and focus on them, there by strengthening your preparation for the Certified Kubernetes Administrator (CKA) Program Exam (CKA) Exam.

Linux Foundation Certified Kubernetes Administrator (CKA) Program

Exam Sample Questions (Q11-Q16):

NEW QUESTION # 11

You are running a Kubernetes cluster with a large number of deployments and services. You need to improve the performance and efficiency of DNS resolution, especially during peak traffic periods.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Increase CoreDNS Resources:

- Allocate more CPU, memory, and storage resources to the CoreDNS Deployment to handle increased DNS traffic.

2. Configure CoreDNS for Efficient Caching: - Use CoreDNS's 'cache' plugin to store DNS records in memory and reduce the need for frequent DNS queries.

3. Use a Distributed DNS Server: - If you have a very large cluster with high traffic, consider using a distributed DNS server like etcd or Consul. This can help to improve performance and scalability.

4. Use DNS over TLS (DOT) or DNS over HTTPS (DoH):

- Enable secure DNS communication to reduce the risk of DNS poisoning attacks, which can significantly impact performance.

5. Monitor CoreDNS Performance: - Use metrics and logs to monitor CoreDNS performance and identify potential bottlenecks.

This will help you adjust your configuration and resource allocation as needed.]

NEW QUESTION # 12

You are deploying a new microservice to your Kubernetes cluster. This service needs to communicate with another service within the same cluster. You want to ensure that the communication between the two services is secure and reliable. Which container network interface plugin would you choose for this scenario and why?

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Choose the appropriate Container Network Interface Plugin:

- For secure and reliable communication between services within the same Kubernetes cluster, the Calico container network interface plugin is a recommended choice.

2. Reasons for choosing Calico:

- Security: Calico provides robust network security features like network policies that allow you to define fine-grained access control rules between pods and services. This ensures secure communication only between authorized entities.

- Reliability: Calico offers high availability and reliability. It uses a distributed architecture and supports BGP for efficient routing and load balancing, leading to resilient network connectivity.

- Ease of Use: Calico integrates seamlessly with Kubernetes and is easy to configure and manage.

- Scalability: It's highly scalable, enabling you to manage large and complex Kubernetes environments.

3. Example Implementation:

- Install Calico: Use the 'kubectl' command to install Calico on your Kubernetes cluster:

```
kubectl apply -f https://docs.projectcalico.org/v3.19/getting-started/kubernetes/installation/1.8+/manifests/calico.yaml
```

- Define Network Policies: Create network policies to control communication between your services. Here's an example:

This policy allows pods labeled 'app: microservice?' to communicate with pods labeled 'app: microservice?' within the 'default' namespace.

4. Verify the Configuration: - Use 'kubectl get networkpolicies' to list the defined network policies. - Test

communication between your services. Note: Calico is a popular and highly regarded choice for Kubernetes networking. However, other plugins like Flannel and Weave are also viable options, depending on your specific requirements and preferences. ,

NEW QUESTION # 13

A bootstrap USB flash drive has been prepared using a Linux workstation to load the initial configuration of a Palo Alto Networks firewall. The USB flash drive was formatted using file system ntfs and the initial configuration is stored in a file named init-cfg.txt.

The contents of Init-cfg.txt in the USB flash drive are as follows:

```
type=static
ip-address=10.5.107.19
default-gateway=10.5.107.1
netmask=255.255.255.0
Ipv6-address=2001:400:100::1/64
ipv6-default-gateway=2001:400:100::2
hostname=Ca-FW-DC1
panorama-server=10.5.107.20
panorama-server-2=10.5.107.21
tplname=FINANCE TG4
dname=finance_dg
dns-primary=10.5.6.6
op-command-modes multi-vsyst jumbo-frame
dhcp-send-hostname=no
dhcp-send-client-id=no
dhcp-accept-server-hostname=no
dhcp-accept-server-domain=no
```

The USB flash drive has been inserted in the firewalls' USB port, and the firewall has been powered on. Upon boot, the firewall fails to begin the bootstrapping process. The failure is caused because:

- A. The USB must be formatted using the ext4 file system
- B. There must be commas between the parameter names and their values instead of the equal symbols
- C. nit-cfg bit is an incorrect filename the correct filename should be init-ofg.xml
- D. The USB drive has been formatted with an unsupported file system
- E. The bootstrap.xml file is a required file, but it is missing

Answer: A

NEW QUESTION # 14

Score: 4%

Task

Scale the deployment presentation

Answer:

Explanation:

See the solution below.

Explanation

Solution:

```
kubectl get deployment
```

```
kubectl scale deployment.apps/presentation --replicas=6
```

NEW QUESTION # 15

Verify certificate expiry date for ca certificate in /etc/kubernetes/pki

Answer:

Explanation:

```
openssl x509 -in ca.crt -noout -text | grep -i validity -A 4
```

NEW QUESTION # 16

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