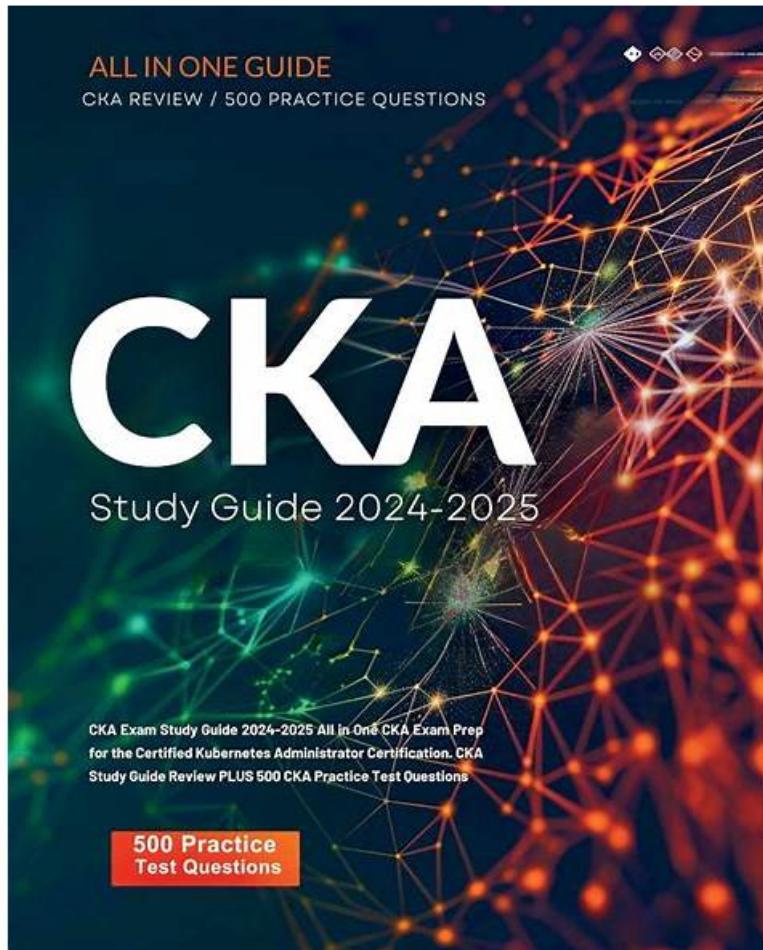


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The CKA certification exam consists of a performance-based test that requires candidates to demonstrate their ability to perform Kubernetes administrative tasks in a real-world environment. CKA exam is conducted online and features a set of challenging scenarios that simulate common Kubernetes administration challenges. Candidates have two hours to complete the exam and must score at least 74% to pass. CKA exam is designed to test the candidate's knowledge of Kubernetes concepts and best practices, as well as their ability to troubleshoot issues and perform complex tasks.

The CKA exam is designed to test an individual's ability to perform real-world tasks in a Kubernetes environment. CKA Exam is conducted online and consists of a set of performance-based tasks that need to be completed within a given time frame. CKA exam covers a range of topics such as Kubernetes architecture, installation and configuration, networking, storage, security, and troubleshooting. CKA exam is challenging and requires a high level of expertise in Kubernetes administration. However, passing the exam is a testament to an individual's skills and knowledge in Kubernetes and can lead to better job opportunities and career growth in the industry.

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Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam Sample Questions (Q17-Q22):

NEW QUESTION # 17

What file type upload is supported as part of the basic WildFire service?

- A. ELF
- B. BAT
- C. PE
- D. VBS

Answer: C

NEW QUESTION # 18

You are running a Kubernetes cluster with a NodePort service exposing a web application on port 80. You want to access the web application from a client machine outside the cluster. However, the client machine is behind a NAT gateway and you cannot directly configure firewall rules on the gateway. How can you configure the Kubernetes cluster to allow the client machine to access the web application?

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Create a NodePort Service:

- Create a NodePort service that exposes port 80 of the web application on a specific NodePort (for example, 30080).

- Code:

```
apiVersion: v1
kind: Service
metadata:
  name: web-service
spec:
  type: NodePort
  ports:
  - port: 80
    targetPort: 80
    nodePort: 30080
  selector:
    app: webapp
```

2. Configure NAT Gateway: - Configure the NAT gateway to forward traffic from the client machine's IP address and port to the Kubernetes cluster's IP address and the NodePort. - Note: This configuration will depend on the specific NAT gateway and its configuration options.

3. Access the Application: - On the client machine, access the web application by using the Kubernetes cluster's IP address and the NodePort. - Example: 'http://30080'

NEW QUESTION # 19

Check the image version in pod without the describe command

Answer:

Explanation:

```
kubectl get po nginx -o jsonpath='{.spec.containers[].image} {"\n"}'
```

NEW QUESTION # 20

You must connect to the correct host.

Failure to do so may result in a zero score.

[candidate@base] \$ ssh Cka000051

Context

You manage a WordPress application. Some Pods are not starting because resource requests are too high.

Your task is to prepare a Linux system for Kubernetes. Docker is already installed, but you need to configure it for kubeadm.

Task

Complete these tasks to prepare the system for Kubernetes :

Set up cri-dockerd :

. Install the Debian package

~/cri-dockerd_0.3.9.3-0.ubuntu-jammy_am
d64.deb

Debian packages are installed using

dpkg .

. Enable and start the cri-docker service

Configure these system parameters:

. Set net.bridge.bridge-nf-call-iptables to 1

Answer:

Explanation:

Task Summary

You are given a host to prepare for Kubernetes:

* Use dpkg to install cri-dockerd

* Enable and start the cri-docker service

* Set net.bridge.bridge-nf-call-iptables to 1 via sysctl

Step-by-Step Instructions

1## SSH into the correct node

bash

Copy>Edit

ssh cka000051

Required - failure to connect to the correct host = zero score.

2## Install cri-dockerd

You are told the .deb file is already located at:

bash

Copy>Edit

~/cri-dockerd_0.3.9.3-0.ubuntu-jammy_amd64.deb

Install it with dpkg:

bash

Copy>Edit

sudo dpkg -i ~/cri-dockerd_0.3.9.3-0.ubuntu-jammy_amd64.deb

If any dependencies are missing (e.g., golang or containerd), you might need:

bash

Copy>Edit

sudo apt-get install -f -y

But usually, the exam system provides a pre-validated .deb environment.

3## Enable and start cri-docker service

Start and enable both services:

bash

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sudo systemctl enable cri-docker.service

sudo systemctl enable --now cri-docker.socket

sudo systemctl start cri-docker.service

Check status (optional but smart):

bash

Copy>Edit

sudo systemctl status cri-docker.service

You should see it active (running).

```

4## Configure the sysctl parameter
Set net.bridge.bridge-nf-call-iptables=1 immediately and persistently.
Step A: Apply immediately:
sudo sysctl net.bridge.bridge-nf-call-iptables=1
Step B: Persist it in /etc/sysctl.d:
Create or modify a file:
echo "net.bridge.bridge-nf-call-iptables = 1" | sudo tee /etc/sysctl.d/k8s.conf Reload sysctl:
sudo sysctl --system
Verify:
sysctl net.bridge.bridge-nf-call-iptables
Should return:
net.bridge.bridge-nf-call-iptables = 1
# Now the system is ready for kubeadm with Docker (via cri-dockerd)!

ssh cka000051
sudo dpkg -i ~/cri-dockerd_0.3.9.3-0.ubuntu-jammy_amd64.deb
sudo systemctl enable cri-docker.service
sudo systemctl enable --now cri-docker.socket
sudo systemctl start cri-docker.service
sudo sysctl net.bridge.bridge-nf-call-iptables=1
echo "net.bridge.bridge-nf-call-iptables = 1" | sudo tee /etc/sysctl.d/k8s.conf sudo sysctl --system

```

NEW QUESTION # 21

Given a partially-functioning Kubernetes cluster, identify symptoms of failure on the cluster.

Determine the node, the failing service, and take actions to bring up the failed service and restore the health of the cluster. Ensure that any changes are made permanently.

You can ssh to the relevant I nodes (bk8s-master-0 or bk8s-node-0) using:

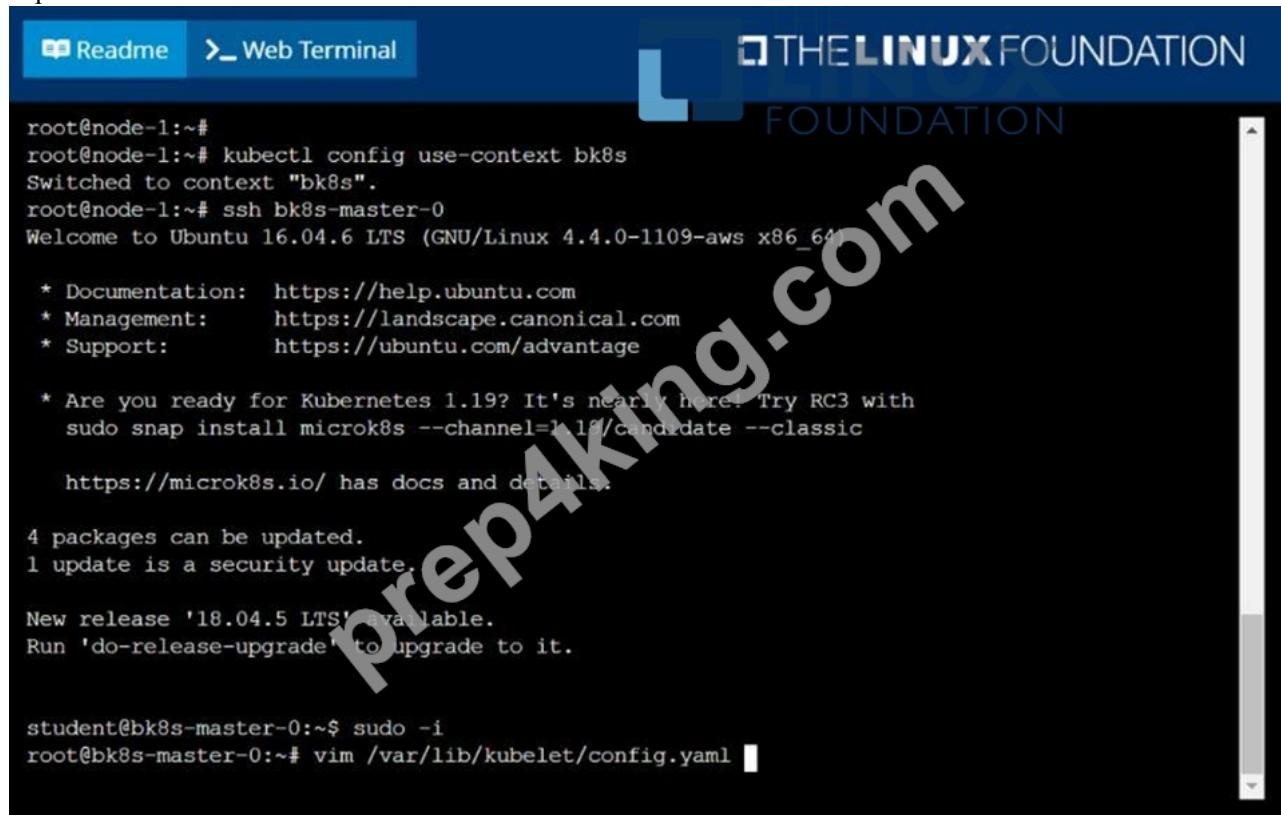
[student@node-1] \$ ssh <nodename>

You can assume elevated privileges on any node in the cluster with the following command:

[student@nodename] \$ | sudo -i

Answer:

Explanation:



```

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root@node-1:~#
root@node-1:~# kubectl config use-context bk8s
Switched to context "bk8s".
root@node-1:~# ssh bk8s-master-0
Welcome to Ubuntu 16.04.6 LTS (GNU/Linux 4.4.0-1109-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

 * Are you ready for Kubernetes 1.19? It's nearly here! Try RC3 with
   sudo snap install microk8s --channel=1.19/candidate --classic

   https://microk8s.io/ has docs and details.

4 packages can be updated.
1 update is a security update.

New release '18.04.5 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

student@bk8s-master-0:~$ sudo -i
root@bk8s-master-0:~# vim /var/lib/kubelet/config.yaml

```

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```
authorization:
  mode: Webhook
  webhook:
    cacheAuthorizedTTL: 0s
    cacheUnauthorizedTTL: 0s
clusterDNS:
- 10.96.0.10
clusterDomain: cluster.local
cpuManagerReconcilePeriod: 0s
evictionPressureTransitionPeriod: 0s
fileCheckFrequency: 0s
healthzBindAddress: 127.0.0.1
healthzPort: 10248
httpCheckFrequency: 0s
imageMinimumGCAge: 0s
kind: KubeletConfiguration
nodeStatusReportFrequency: 0s
nodeStatusUpdateFrequency: 0s
rotateCertificates: true
runtimeRequestTimeout: 0s
staticPodPath: /etc/kubernetes/manifests
streamingConnectionIdleTimeout: 0s
syncFrequency: 0s
volumeStatsAggPeriod: 0s
:wg
```

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```
https://microk8s.io/ has docs and details.

4 packages can be updated.
1 update is a security update.

New release '18.04.5 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

student@bk8s-master-0:~$ sudo -i
root@bk8s-master-0:~# vim /var/lib/kubelet/config.yaml
root@bk8s-master-0:~# systemctl restart kubelet
root@bk8s-master-0:~# systemctl enable kubelet
root@bk8s-master-0:~# kubectl get nodes

NAME      STATUS  ROLES   AGE   VERSION
bk8s-master-0  Ready   master  77d   v1.18.2
bk8s-node-0   Ready   <none>  77d   v1.18.2
root@bk8s-master-0:~#
root@bk8s-master-0:~# exit
logout
student@bk8s-master-0:~$ exit
logout
Connection to 10.250.4.77 closed.
root@node-1:~#
```

NEW QUESTION # 22

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