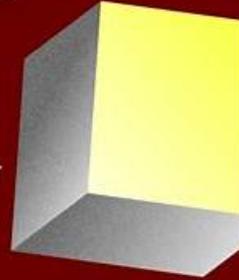# CKA Pass Leader Dumps - CKA Labs

CKA DUMPS 2022

Certified Kubernetes Administrator

1 Exam Breakdown
The CKA exam covers 5 main domains: Cluster Architecture (25%), Workloads & Scheduling (15%), Services & Networking (20%), Storage (10%), and Troubleshooting (30%)

2 Prep Timeline
Recommended CKA exam prep timeline is 6-8 weeks of preparation

3 Key Strategies
Key CKA exam prep strategies include taking practice exams, reviewing Kubernetes concepts, and reading exam tips from professionals

4 Career Impact
Key CKA exam prep strategies include taking practice exams, reviewing Kubernetes concepts, and reading exam tips from professionals

5 Exam Logistics
The CKA exam fee is $375 and the certification is valid for 3 years

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Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam Sample Questions (Q79-Q84):

NEW QUESTION # 79
create a pod in a specific node (node1) by placing the pod definition file in a particular folder "/etc/kubernetes/manifests".

- A. Generate YAML before we SSH to the specific node, then copy the YAML into the exam notepad to use it after SSH into worker node.
  SSH to the node: "ssh node1"
  Gain admin privileges to the node: "sudo -i"
  Move to the manifest-path "cd /etc/kubernetes/manifests"
  Place the generated YAML into the folder "vi nginx.yaml"
  Find the kubelet config file path "ps -aux | grep kubelet" . This
  will output information on kubelet process. Locate the kubelet config
  file location.
  kubelet config file -- /var/lib/kubelet/config.yaml
  Edit the config file "vi /var/lib/kubelet/config.yaml" to add
  staticPodPath
  staticPodPath: /etc/kubernetes/manifests
  Restart the kubelet "systemctl restart kubelet"
- B. Generate YAML before we SSH to the specific node, then copy the YAML into the exam notepad to use it after SSH into worker node.
  SSH to the node: "ssh node1"
  Gain admin privileges to the node: "sudo -i"
  Move to the manifest-path "cd /etc/kubernetes/manifests"
  kubelet config file -- /var/lib/kubelet/config.yaml
  Edit the config file "vi /var/lib/kubelet/config.yaml" to add
  staticPodPath
  staticPodPath: /etc/kubernetes/manifests

Restart the kubelet "systemctl restart kubelet"

Answer: A

NEW QUESTION # 80
You have a Kubernetes cluster with a 'default' namespace. You want to prevent any users from creating pods in this namespace. Create a ClusterRole and ClusterRoleBinding to achieve this restriction.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
Step 1: Create a ClusterRole to deny pod creation in the 'default' namespace.
Step 2: Create a ClusterRoleBinding to apply the ClusterRole to all users.
We create a ClusterRole that specifically targets the 'default' namespace and denies 'create' permissions for pods. This ClusterRole uses 'resourceNames' and 'namespaceSelector& to precisely target the 'default' namespace. We create a ClusterRoleBinding that applies the ClusterRole to all users in the cluster. Applying the configurations: Use 'kubectl apply -f [filename].yaml' to apply the ClusterRole and ClusterRoleBinding YAML files. This will prevent anyone from creating pods in the 'default' namespace. This configuration is a powerful way to implement security policies and prevent unintended resource creation in sensitive namespaces. ,

NEW QUESTION # 81
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
CopyEdit
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

CopyEdit
~/cri-dockerd_0.3.9.3-0.ubuntu-jammy_amd64.deb
Install it with dpkg:
bash
CopyEdit
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
CopyEdit
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
CopyEdit
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
CopyEdit
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 # 82
You need to create a new role that allows users to create and delete pods, but only in the
'production' namespace. How would you define this role using the 'kubectl' command?

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Create a Role YAML file:

2. Apply the Role to the cluster: kubectl apply -f pod-admin . yaml 3. Create a RoleBinding to associate the Role with a user or
group:

The 'Role' resource defines a set of permissions for a specific namespace. The 'rules' field defines the actions allowed for the role,
specifying the API groups, resources, and verbs. The 'apiGroups' field lists the Kubernetes API groups relevant to the permissions.

The 'resources' field specifies the Kubernetes resources that the user can access. The 'verbs' field lists the allowed actions for the specified resources. The 'RoleBinding' associates the created 'Role' with a specific user or group, granting them the specified permissions. In this case, the role is named "pod-admin" and is scoped to the 'production' namespace. The role allows users to create and delete pods, as well as perform other actions on related resources. This example demonstrates how to manage Role-Based Access Control (RBAC) in Kubernetes. You can adjust the permissions and bindings to fit your specific security requirements.,

NEW QUESTION # 83
List the nginx pod with custom columns POD_NAME and POD_STATUS

Answer:

Explanation:
kubectl get po -o=custom-columns="POD_NAME:.metadata.name, POD_STATUS:.status.containerStatuses[].state"

NEW QUESTION # 84
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