

CKA Trustworthy Dumps, Latest CKA Guide Files

CKA DUMPS 2022

Certified Kubernetes Administrator



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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 (Q67-Q72):

NEW QUESTION # 67

You have a Deployment running a web application with three replicas. The application is exposed using a 'NodePort' service. You need to configure the service so that it allows traffic only from specific IP addresses (e.g., 192.168.1.10, 192.168.1.20).

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Create a NetworkPolicy:

- Define a NetworkPolicy resource that allows traffic from the specified IP addresses to the Deployment pods.

```
kind: NetworkPolicy
metadata:
  name: allow-specific-ips
  namespace:
spec:
  podSelector:
    matchLabels:
      app: webapp # Match label of your deployment
  ingress:
    - from:
      - ipBlock:
          cidr: 192.168.1.10/32
      - ipBlock:
          cidr: 192.168.1.20/32
```

2. Apply the NetworkPolicy: - Apply the YAML file using 'kubectl apply -f networkpolicy.yaml'. 3. Verify the NetworkPolicy: -

Check the status of the NetworkPolicy using 'kubectl get networkpolicies allow-specific-ips -n 4. Test the Access: - Attempt to access the web application from the allowed IP addresses. You should be able to access it. - Try to access the application from other IP addresses. You should not be able to access it. Note: Replace " with the actual namespace where your Deployment and NetworkPolicy are located.

NEW QUESTION # 68

You are running a Kubernetes cluster with a critical application that requires high availability and resilience. You have a Deployment named 'web-app' with multiple replicas. Your current DNS setup relies on external DNS providers, but you want to implement CoreDNS within your cluster to enhance DNS resolution performance and reliability. You need to configure CoreDNS to resolve DNS queries for services within the cluster and for external domains.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1 Create a CoreDNS ConfigMap:

- Create a ConfigMap named coredns' containing the CoreDNS configuration. You can use a basic configuration file or a more complex one tailored to your specific needs.

```
apiVersion: v1
kind: ConfigMap
metadata:
  name: coredns
data:
  Corefile: |
    .:53 {
      errors
      health
      ready
      kubernetes cluster.local in-addr.arpa ip6.arpa {
        pods insecure
        fallthrough
      }
      forward . /etc/resolv.conf
      cache 30
      reload 10s
    }
```

2. Deploy CoreDNS: - Deploy CoreDNS as a Deployment using the 'coredns' ConfigMap.

```

apiVersion: apps/v1
kind: Deployment
metadata:
  name: coredns
spec:
  replicas: 1
  selector:
    matchLabels:
      k8s-app: coredns
  template:
    metadata:
      labels:
        k8s-app: coredns
    spec:
      containers:
        - name: coredns
          image: coredns/coredns:1.8.1
          args:
            - -conf
            - /etc/coredns/Corefile
          volumeMounts:
            - name: config-volume
              mountPath: /etc/coredns
      volumes:
        - name: config-volume
          configMap:
            name: coredns

```



3. Configure Services for DNS Resolution: - Create a Service named 'coredns' of type 'ClusterIP' that exposes the CoreDNS Deployment on the cluster network.

```

apiVersion: v1
kind: Service
metadata:
  name: coredns
spec:
  type: ClusterIP
  ports:
    - port: 53
      targetPort: 53
  selector:
    k8s-app: coredns

```

4. Update Cluster DNS Configuration: - Modify the 'kube-system' namespace 'ConfigMap' named 'cluster-dns' to point to the 'coredns' Service for DNS resolution.

```

apiVersion: v1
kind: ConfigMap
metadata:
  name: cluster-dns
  namespace: kube-system
data:
  cluster.local: 10.96.0.10
  upstream: 10.96.0.10

```

5. Verify CoreDNS Functionality: - Use 'kubectl exec -it -- sh -c "nslookup ..svc.cluster.local"' to test DNS resolution for services within the cluster. - Use "kubectl exec -it sh -c "nslookup example.com"' to test DNS resolution for external domains. - If everything is configured correctly, CoreDNS should successfully resolve DNS queries.

NEW QUESTION # 69

Create a deployment named "myapp" that having 2 replicas with nginx image and expose deployment as service named "myservice"

- A. // Create a YAML Template


```

kubectl create deploy myapp --image=nginx --dry-run -o yaml >
myapp.yaml
//Update replicas=2 in myapp.yaml file
apiVersion: apps/v1
kind: Deployment
metadata:
  labels:
    app: myapp
  name: myapp
spec:
  replicas: 2
  selector:
    matchLabels:
      app: myapp
  template:
    metadata:
      labels:
        app: myapp
    spec:
      containers:
        - image: nginx
          name: nginx
// Create deployment
kubectl create -f myapp.yaml
// Creating YAML template for service
kubectl expose deployment myapp --type=ClusterIP --port=60 --
target-port=60 --name=myservice --dry-run -o yaml >
myservice.yaml
YAML File:
apiVersion: v1
kind: Service
metadata:
  labels:
    app: myapp
  name: myservice
spec:
  ports:

```

```

- port: 60
protocol: TCP
targetPort: 80
selector:
app: myapp
type: ClusterIP
kubectl get svc
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S)
AGE
kubernetes ClusterIP 10.2.0.1 <none> 443/TCP
158d
myservice ClusterIP 10.2.96.175 <none> 80/TCP
40s

```

- **B. // Create a YAML Template**
 kubectl create deploy myapp --image=nginx --dry-run -o yaml >
 myapp.yaml
 //Update replicas=2 in myapp.yaml file
 apiVersion: apps/v1
 kind: Deployment
 metadata:
 labels:
 app: myapp
 name: myapp
 spec:
 replicas: 2
 selector:
 matchLabels:
 app: myapp
 template:
 metadata:
 labels:
 app: myapp
 spec:
 containers:
 - image: nginx
 name: nginx
 // Create deployment
 kubectl create -f myapp.yaml
 // Creating YAML template for service
 kubectl expose deployment myapp --type=ClusterIP --port=80 --
 target-port=80 --name=myservice --dry-run -o yaml >
 myservice.yaml
 YAML File:
 apiVersion: v1
 kind: Service
 metadata:
 labels:
 app: myapp
 name: myservice
 spec:
 ports:
 - port: 80
 protocol: TCP
 targetPort: 80
 selector:
 app: myapp
 type: ClusterIP
 kubectl get svc
 NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S)
 AGE
 kubernetes ClusterIP 10.2.0.1 <none> 443/TCP

158d
myservice ClusterIP 10.2.96.175 <none> 80/TCP
40s

Answer: B

NEW QUESTION # 70

Create the service as type NodePort with the port 32767 for the nginx pod with the pod selector app: my-nginx

Answer:

Explanation:

```
kubectl run nginx --image=nginx --restart=Never -- labels=app=nginx --port=80 --dry-run -o yaml > nginx-pod.yaml
```

NEW QUESTION # 71

Create a nginx pod with label env=test in engineering namespace

Answer:

Explanation:

See the solution below.

Explanation

```
kubectl run nginx --image=nginx --restart=Never --labels=env=test --namespace=engineering --dry-run -o yaml > nginx-pod.yaml
```

```
kubectl run nginx --image=nginx --restart=Never --labels=env=test --namespace=engineering --dry-run -o yaml | kubectl create -
```

nengineering-f- YAML File:

apiVersion: v1

kind: Pod

metadata:

name: nginx

namespace: engineering

labels:

env: test

spec:

containers:

- name: nginx

image: nginx

imagePullPolicy: IfNotPresent

restartPolicy: Never

```
kubectl create -f nginx-pod.yaml
```

NEW QUESTION # 72

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