

CKAD過去問題 & CKAD模擬試験最新版

Dumps Q&A Linux Foundation - CKAD

```
deployment.apps/expose created
candidate@node-1:~$ kubectl get pods -n ckad00014
NAME          READY   STATUS    RESTARTS   AGE
expose-85d9964d-25b75    0/1     ContainerCreating    0          6s
expose-85d9964d-4fhcc    0/1     ContainerCreating    0          6s
expose-85d9964d-f1d7f    0/1     ContainerCreating    0          6s
expose-85d9964d-tt8rn    0/1     ContainerCreating    0          6s
expose-85d9964d-vj92c    0/1     ContainerCreating    0          6s
expose-85d9964d-vtzpq    0/1     ContainerCreating    0          6s
candidate@node-1:~$ kubectl get deploy -n ckad00014
NAME          READY   UP-TO-DATE   AVAILABLE   AGE
expose        0/6     6             6           15s
candidate@node-1:~$ kubectl config use-context k8s.
Switched to context "k8s".
candidate@node-1:~$ vi -/credible-mite/www.yaml
candidate@node-1:~$ vi -/credible-mite/www.yaml
candidate@node-1:~$ kubectl apply -f /credible-mite/www.yaml
deployment.apps/www deployment created
candidate@node-1:~$ kubectl get pods -n cobra
NAME          READY   STATUS    RESTARTS   AGE
www-deployment-0899c049-d6ccg    1/1     Running    0           6s
www-deployment-0899c049-f796l    0/1     ContainerCreating    0          6s
www-deployment-0899c049-rtfcv    0/1     ContainerCreating    0          6s
candidate@node-1:~$ kubectl get deploy -n cobra
NAME          READY   UP-TO-DATE   AVAILABLE   AGE
www-deployment    3/3     3             3           11s
candidate@node-1:~$ kubectl get pods -n cobra
NAME          READY   STATUS    RESTARTS   AGE
www-deployment-0899c049-d6ccg    1/1     Running    0           14s
www-deployment-0899c049-f796l    1/1     Running    0           14s
www-deployment-0899c049-rtfcv    1/1     Running    0           14s
candidate@node-1:~$
```

Question #9

Set configuration context:

```
[student@node-1] $ kubectl config
use-context k8s
```

Task

Success Guaranteed, 100% Valid 17 of 31

P.S. Pass4TestがGoogle Driveで共有している無料かつ新しいCKADダンプ: <https://drive.google.com/open?id=1DzNN5FOI5M0P15kh4ETC5qWt5nNodVPw>

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>> CKAD過去問題 <<

試験の準備方法-実地的なCKAD過去問題試験-素晴らしいCKAD模擬試験最新版

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す。

CKAD認定試験は、実践的なパフォーマンスベースの試験です。つまり、候補者は指定された時間制限内で一連のタスクを完了する必要があります。この試験はオンラインで実施されており、候補者はKubernetesクラスターにアクセスする必要があります。認定試験では、Kubernetesアーキテクチャを理解し、アプリケーションを展開および管理し、サービスを構成および実行し、一般的な問題をトラブルシューティングする候補者の能力をテストします。認証試験は、候補者の実践的なスキルとクベルネテスの知識の証であり、クベルネテスの専門家を雇うことを検討している組織によって世界的に認識されています。

Linux Foundation Certified Kubernetes Application Developer Exam 認定 CKAD 試験問題 (Q189-Q194):

質問 # 189

You are tasked with setting up a secure Kubernetes cluster for a web application. The application has sensitive data that must be protected. You need to configure a mechanism to restrict access to the application's pods based on user identities. Describe a method to achieve this using Kubernetes RBAC and Service Accounts, ensuring that only authorized users can access specific pods.

正解:

解説:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Create a Service Account

- Create a Service Account for the application:

```
apiVersion: v1
kind: ServiceAccount
metadata:
  name: webapp-sa
```

- Apply the Service Account configuration using `kubectl apply -f webapp-sa.yaml`

```
2. Create a Role: - Define a Role that grants access to the specific pods:
apiVersion: rbac.authorization.k8s.io/v1
kind: Role
metadata:
  name: webapp-pod-reader
  namespace:
rules:
- apiGroups: ["apps"]
  resources: ["deployments"]
  verbs: ["get", "list", "watch"]
- apiGroups: ["apps"]
  resources: ["deployments/finalizers"]
  verbs: ["update"]
- apiGroups: ["apps"]
  resources: ["statefulsets"]
  verbs: ["get", "list", "watch"]
- apiGroups: ["apps"]
  resources: ["statefulsets/finalizers"]
  verbs: ["update"]
- apiGroups: ["extensions"]
  resources: ["ingresses"]
  verbs: ["get", "list", "watch"]
- apiGroups: ["extensions"]
  resources: ["ingresses/finalizers"]
  verbs: ["update"]
- apiGroups: ["extensions"]
  resources: ["daemonsets"]
  verbs: ["get", "list", "watch"]
- apiGroups: ["extensions"]
  resources: ["daemonsets/finalizers"]
  verbs: ["update"]
- apiGroups: ["batch"]
  resources: ["jobs"]
  verbs: ["get", "list", "watch"]
- apiGroups: ["batch"]
  resources: ["jobs/finalizers"]
  verbs: ["update"]
- apiGroups: ["batch"]
  resources: ["cronjobs"]
```

```

  verbs: ["get", "list", "watch"]
- apiGroups: ["batch"]
  resources: ["cronjobs/finalizers"]
  verbs: ["update"]
- apiGroups: ["policy"]
  resources: ["podsecuritypolicies"]
  verbs: ["use"]
- apiGroups: ["admissionregistration.k8s.io"]
  resources: ["validatingwebhookconfigurations"]
  verbs: ["get", "list", "watch"]
- apiGroups: ["admissionregistration.k8s.io"]
  resources: ["mutatingwebhookconfigurations"]
  verbs: ["get", "list", "watch"]
- apiGroups: ["rbac.authorization.k8s.io"]
  resources: ["roles", "rolebindings"]
  verbs: ["get", "list", "watch"]
- apiGroups: ["", "apps", "extensions", "batch"]
  resources: ["pods"]
  verbs: ["get", "list", "watch"]
- apiGroups: ["", "apps", "extensions", "batch"]
  resources: ["pods/log"]
  verbs: ["get", "list", "watch"]
- apiGroups: ["apps", "extensions", "batch"]
  resources: ["pods/exec"]
  verbs: ["create"]
- apiGroups: ["apps", "extensions", "batch"]
  resources: ["pods/portforward"]
  verbs: ["create"]
- apiGroups: ["apps", "extensions", "batch"]
  resources: ["pods/proxy"]
  verbs: ["get", "list", "watch"]
- apiGroups: ["apps", "extensions", "batch"]
  resources: ["pods/attach"]
  verbs: ["create"]
- apiGroups: ["apps", "extensions", "batch"]
  resources: ["pods/status"]
  verbs: ["get", "list", "watch"]
- apiGroups: ["apps", "extensions", "batch"]
  resources: ["pods/binding"]
  verbs: ["get", "list", "watch"]
- apiGroups: ["apps", "extensions", "batch"]
  resources: ["pods/eviction"]
  verbs: ["create"]
- apiGroups: ["apps", "extensions", "batch"]
  resources: ["pods/delete"]
  verbs: ["delete"]

```

- Apply the Role configuration: `bash kubectl apply -f webapp-pod-reader.yaml` 3. Create a RoleBinding - Bind the Role to the Service Account

```

apiVersion: rbac.authorization.k8s.io/v1
kind: RoleBinding
metadata:
  name: webapp-pod-reader-binding
  namespace:
roleRef:
  apiGroup: rbac.authorization.k8s.io
  kind: Role
  name: webapp-pod-reader
subjects:
- kind: ServiceAccount
  name: webapp-sa
  namespace:

```

- Apply the RoleBinding configuration: `bash kubectl apply -f webapp-pod-reader-binding.yaml` 4. Configure the Application: - When deploying the application, specify the Service Account:

```

apiVersion: apps/v1
kind: Deployment
metadata:
  name: webapp-deployment
spec:
  replicas: 2
  selector:
    matchLabels:
      app: webapp
  template:
    metadata:
      labels:
        app: webapp
    spec:
      serviceAccountName: webapp-sa
      containers:
        - name: webapp
          image:

```

5. Verify Access: - Use the 'kubectl' command with the Service Account's credentials to verify that only authorized users can access the application's pods: `bash kubectl -service-account=webapp-sa get pods -n` This setup utilizes Kubernetes RBAC to control access to the application's pods. - The Service Account acts as an identity for the application. - The Role defines the permissions granted to the Service Account, specifically allowing access to the pods. - The RoleBinding associates the Role with the Service Account, linking the permissions to the identity. - When the application is deployed with the specified Service Account, it inherits the permissions defined in the RoleBinding. This ensures that only users with the necessary credentials (associated with the Service Account) can access and interact with the application's pods, safeguarding sensitive data.

質問 # 190

You have a container image that contains a Python application. The application depends on specific libraries that are not included in the base image used for the container. Describe the steps involved in modifying the image to install the necessary libraries Without rebuilding the entire application.

正解:

解説:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Create a Dockerfile:

- Create a new 'Dockerfile' with the following content

```

FROM existing-image:latest # Use the existing image as the base
COPY --from=existing-image:latest /app /app
WORKDIR /app
RUN pip install -r requirements.txt # Install dependencies
CMD ["python", "app.py"] # Start the application

```

- Replace 'existing-image:latest' with the name of your current container image. - Replace 'requirements-txt' with the name of your file containing the list of Python libraries. 2. Build the Image: - Build the new image using the Dockerfile: `docker build -t updated-image:latest` 3. Update the Deployment - Modify your Deployment YAML file to use the newly built image:

```

apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-python-app
spec:
  replicas: 3
  selector:
    matchLabels:
      app: my-python-app
  template:
    metadata:
      labels:
        app: my-python-app
    spec:
      containers:
        - name: my-python-app
          image: updated-image:latest # Use the new image name
          ports:
            - containerPort: 8080
          restartPolicy: Always

```

4. Apply the Changes: - Apply the updated Deployment using Skubectl apply -f deployment.yaml. This will trigger a rolling update to the pods using the new image. 5. Verify the Update: - Check the logs of the pods using 'kubectl logs -f'. You should see the application running with the installed libraries. 6. Test the Application: - Access your application and ensure it functions correctly with the new libraries.

質問 # 191

You are tasked With designing a multi-container Pod that hosts both a web server and a database. The web server should be able to connect to the database within the pod- How would you implement this design, including networking considerations?

正解:

解説:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Define the Pod YAML:- Create a Pod definition that includes two containers: one for the web server and one for the database.

```

apiVersion: v1
kind: Pod
metadata:
  name: web-db-pod
spec:
  containers:
    - name: webserv
      image: nginx:latest
      ports:
        - containerPort: 80
      env:
        - name: DB_HOST
          value: "db"
    - name: db
      image: mysql:latest
      ports:
        - containerPort: 3306

```

2. Configure Networking: The key to allowing the web server to connect to the database is to use the pod's internal network. Since containers Within a pod share the same network namespace, you can configure the webserv to connect to the database using the name "db". 3. Environment Variables: Set an environment variable (DB_HOST) within the webserv container to point to the database container by its name. This ensures the web server can correctly connect to the database within the pod. 4. Pod Deployment: Apply the YAML to create the pod using 'kubectl apply -f web-db-pod.yaml'. 5. Verification: To check the pod's

status: - Run 'kubectl get pods' - Check the logs of the web server container to confirm it can connect to the database. 6. Important Note: In this example, we're using the default pod networking within Kubernetes. For more complex applications, consider using a service to expose the database container. This will allow access to the database from outside the pod.,

質問 # 192

You have a Node.js application that runs in a Kubernetes cluster. The application requires access to a MySQL database hosted externally on a different server. Due to security concerns, you cannot directly expose the database to the application pod. Describe how you can implement a network policy to enable secure communication between the application pod and the MySQL database.

正解:

解説:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Create a Network Policy:

- Create a Network Policy that allows traffic only from the application pods to the MySQL database server-
- Define the 'podSelector' to specify the application pods that should be allowed to connect to the database.
- Use 'ingress' rules to define the allowed incoming traffic from the application pods.
- Specify the 'from' field to identify the source pods using labels or namespaces-
- Set the 'to' field to specify the target IP address or range of the MySQL database server

```
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: mysql-access
spec:
  podSelector:
    matchLabels:
      app: my-node-app
  ingress:
    - from:
      - podSelector:
          matchLabels:
            app: my-node-app
      to:
        - ipBlock:
            cidr: 192.168.1.100/32 # Replace with the actual MySQL server IP address
            except: []
        ports:
          - protocol: TCP
            port: 3306
```

2. Deploy the Network Policy: - Apply the Network Policy to your Kubernetes cluster using 'kubectl apply -f mysql-access.yaml'
3. Configure the Application: - Configure your Node.js application to connect to the MySQL database using the IP address or hostname of the database server. - Ensure that the Node.js application has appropriate security credentials to access the database.
4. Test the Application: - Run your application and verify that it can connect to the MySQL database successfully. Note: This example provides a basic implementation. You might need to adjust the configuration based on your specific security requirements and network setup. You can further enhance the network policy by using specific ports, protocols, and other security measures as needed.,

質問 # 193

You have a microservice that is deployed in a Kubernetes cluster, and you want to monitor its performance and health using Prometheus and Grafana. How can you configure Prometheus to scrape metrics from your microservice and create dashboards in Grafana?

正解:

解説:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Enable Metrics in Your Microservice:

- Ensure your microservice exposes metrics through an HTTP endpoint using a library like Prometheus Client (for Java), Go metrics, or StatsD.

- Define metrics such as request count, latency, error rate, and other relevant performance indicators.

2. Deploy Prometheus:

- Deploy Prometheus using a 'Deployment' and a 'Service'

- Configure Prometheus to scrape metrics from the microservice by adding its endpoint to the 'scrape_configs' in the 'prometheus.yml' file.

```
scrape_configs:
- job_name: 'my-microservice'
  static_configs:
  - targets: ['my-microservice-service:9100']
```

3. Create a Service for Prometheus to Access the Microservice: - Create a 'Service' of type 'ClusterIP' that exposes the microservice's metrics endpoint (usually port 9100). - Ensure Prometheus can reach this service. 4. Deploy Grafana: - Deploy Grafana using a 'Deployment' and a 'Service' - Configure Grafana to connect to Prometheus as a data source. 5. Create Dashboards in Grafana: - Use Grafana's dashboard builder to create custom dashboards that visualize the metrics collected by Prometheus. - Add panels to display graphs, charts, and tables that show the performance and health of your microservice. 6. Configure Alerts in Grafana: - Configure alerts in Grafana based on specific metrics and thresholds. - Set up notifications to alert you when critical issues arise with the microservice. Note: This approach provides comprehensive monitoring for your microservice. Prometheus scrapes metrics from the microservice, stores them in its time series database, and Grafana visualizes these metrics and provides alerts for potential issues. Example Prometheus Scrape Configuration:

```
scrape_configs:
- job_name: 'my-microservice'
  static_configs:
  - targets: ['my-microservice-service:9100']
  # Optional: Use a service discovery mechanism to automatically detect microservice pods
  # discovery:
  #   kubernetes_sd_configs:
  #   - role: service
  #   names: ['my-microservice']
```

Example Grafana Dashboard: - Create a dashboard with panels that show the following metrics: - Request count per minute - Average request latency - Error rate - CPU and memory usage of the microservice container - Set up alerts to notify you if: - The request count exceeds a certain threshold - The average latency exceeds a certain threshold - The error rate exceeds a certain threshold - The CPU or memory usage exceeds a certain threshold,

質問 # 194

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