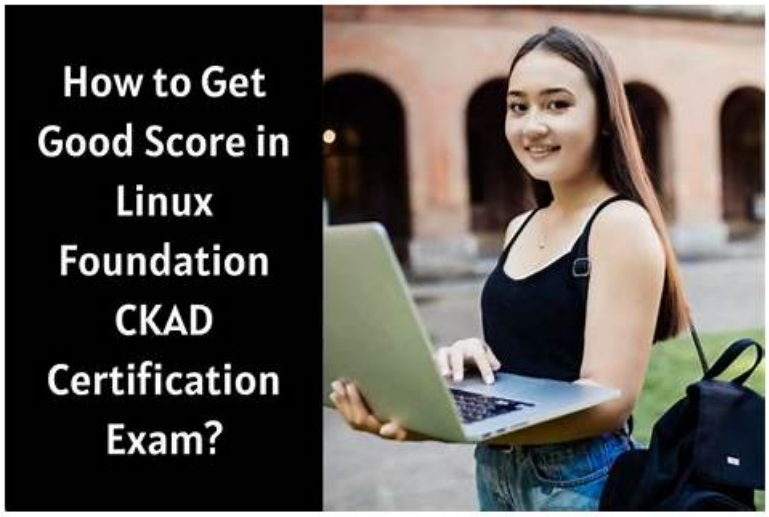
Trusted Formal CKAD Test & Realistic Latest CKAD Exam Duration & Valid Linux Foundation Linux Foundation Certified Kubernetes Application Developer Exam



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The CKAD exam is designed to test the practical skills of developers in deploying applications on Kubernetes. CKAD exam is designed to be hands-on, and candidates are required to demonstrate their ability to work with Kubernetes by completing a series of practical tasks within a set timeframe. CKAD exam is conducted online and is proctored to ensure the integrity of the certification process.

The CKAD certification is highly regarded in the industry and is recognized by many employers as a valuable credential for Kubernetes developers. Linux Foundation Certified Kubernetes Application Developer Exam certification demonstrates a candidate's ability to work with Kubernetes in a professional setting and shows that they have the skills and knowledge required to deploy and manage applications on Kubernetes clusters. The CKAD Certification is a great way for developers to showcase their skills and advance their careers in the fast-growing field of Kubernetes development.

>> Formal CKAD Test <<

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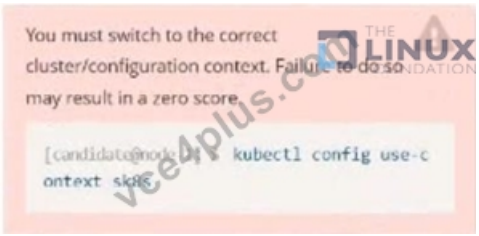
Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q116-Q121):

NEW QUESTION # 116



Task:
Create a Pod named nginx resources in the existing pod resources namespace.
Specify a single container using nginx:stable image.
Specify a resource request of 300m cpus and 1G1 of memory for the Pod's container.

Answer:

Explanation:
See the solution below.
Explanation
Solution:

```
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl  run nginx-resources -n pod-resources  --image=nginx:stable --dry-run=client -o yaml > hw.yaml
candidate@node-1:~$ vim hw.yaml
```

Text Description automatically generated with medium confidence

```
File  Edit  View  Terminal  Tabs  Help
apiVersion: v1
kind: Pod
metadata:
  creationTimestamp: null
  labels:
    run: nginx-resources
  name: nginx-resources
  namespace: pod-resources
spec:
  containers:
  - image: nginx:stable
    name: nginx-resources
    resources:
      requests:
        cpu: 300m
        memory: "1Gi"
:wq
```

Text Description automatically generated

```
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl  run nginx-resources -n pod-resources  --image=nginx:stable --dry-run=client -o yaml > hw.yaml
candidate@node-1:~$ vim hw.yaml
candidate@node-1:~$ kubectl  create  -f hw.yaml
pod/nginx-resources created
candidate@node-1:~$ kubectl get pods -n pod-resources
NAME              READY   STATUS    RESTARTS   AGE
nginx-resources   1/1     Running   0          13s
candidate@node-1:~$ kubectl  describe  pods  -n pod-resources
```

Text Description automatically generated

```
File  Edit  View  Terminal  Tabs  Help
      memory:     1Gi
    Environment:  <none>
    Mounts:
      /var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-dmx9j (ro)
Conditions:
  Type              Status
  Initialized       True
  Ready             True
  ContainersReady   True
  PodScheduled      True
Volumes:
  kube-api-access-dmx9j:
    Type:                     Projected (a volume that contains injected data from multiple sources)
    TokenExpirationSeconds:   3607
    ConfigMapName:            kube-root-ca.crt
    ConfigMapOptional:        <nil>
    DownwardAPI:              true
QoS Class:                    Burstable
Node-Selectors:               <none>
Tolerations:                  node.kubernetes.io/not-ready:NoExecute op=Exists for 300s
                              node.kubernetes.io/unreachable:NoExecute op=Exists for 300s
Events:
  Type    Reason     Age   From               Message
  ----    ------     ----  ----               -------
  Normal  Scheduled  20s   default-scheduler  Successfully assigned pod-resources/nginx-resources to k8s-node-0
  Normal  Pulling    19s   kubelet            Pulling image "nginx:stable"
  Normal  Pulled     13s   kubelet            Successfully pulled image "nginx:stable" in 6.556640452s
  Normal  Created    13s   kubelet            Created container nginx-resources
  Normal  Started    12s   kubelet            Started container nginx-resources
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl  create  deploy expose -n  ckad00014  --image lfccncf/nginx:1.13.7 --dry-run=client -o yaml>
```

NEW QUESTION # 117
You have a microservice that is deployed in a Kubernetes cluster, and you want to monitor its performance and health using Prometheus and Grafan a. How can you configure Prometneus to scrape metrics from your microservice and create dashboards in Grafana?

Answer:

Explanation:
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 trom the microservice by adding its endpoint to the 'scrape_configs' in the 'prometheus.yaml' 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 'ClusterlP' that exposes the microservice's metrics endpoint (usually port 9100). - Ensure Prometheus can reacn this service. 4. Deploy Grafana: - Deploy Gratana 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 ot 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 it: - 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,

NEW QUESTION # 118
You have a Deployment running a web application built With a Node.js container. The application currently uses an older version of the Node.js runtime, and you need to upgrade to a newer versiom Describe the steps involved in modifying the container image to include the new Node.js runtime without rebuilding the entire application.

Answer:

Explanation:
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 node:16-alpine # Use the desired Node.js version
COPY --from=existing-image:latest /app /app
WORKDIR /app
CMD ["npm", "start"]
```

- Replace With the name of the existing Docker image used by your Deployment. - This Dockefflle uses a multi-stage build approach. It starts with a new Node.js base image and copies the application code from the existing image. This allows you to update the runtime without rebuilding the entire application. 2. Build the New Image: - Build tne image using the Dockerflle: 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-node-app
spec:
  replicas: 3
  selector:
    matchLabels:
      app: my-node-app
  template:
    metadata:
      labels:
        app: my-node-app
    spec:
      containers:
      - name: my-node-app
        image: updated-image:latest  # Use the new image name
        ports:
        - containerPort: 8080
      restartPolicy: Always
```

4. Apply the Changes: - Apply the updated Deployment using 'kubectl apply -f deployment.yamr. 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 updated Node.js version. 6. Test the Application: - Access your application and ensure it functions correctly with the new Node.js runtime.

NEW QUESTION # 119
You are deploying a microservice that handles image processing tasks. The service requires a significant amount of resources, including both CPU and memory. To optimize resource utilization and ensure efficient scaling, you want to leverage Kubernetes' resource management features. Design a deployment strategy that leverages Kubernetes resources to manage and optimize the image processing service.

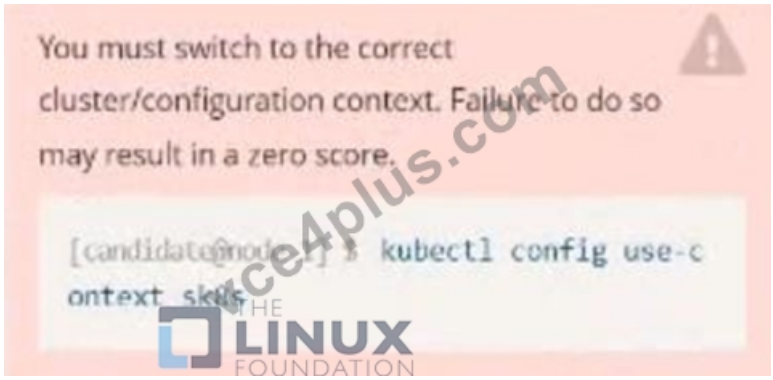
Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:

```yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: image-processing-deployment
spec:
  replicas: 2
  selector:
    matchLabels:
      app: image-processing
  template:
    metadata:
      labels:
        app: image-processing
    spec:
      containers:
      - name: image-processing
        image: your-image-repo:latest
        resources:
          requests:
            cpu: 2
            memory: 4Gi
          limits:
            cpu: 4
            memory: 8Gi
```

2. Define Resource Requests and Limits: - Set resource requests and limits for your image processing containers- Requests define the minimum resources that each container needs to run smoothly, while limits define the maximum resources it can consume. This ensures that the service doesn't starve other workloads on the cluster and doesn't consume excessive resources. 3. Implement Horizontal Pod Autoscaling (HPA): - Configure HPA to automatically scale tne number of pods based on CPU or memory utilization. This enables the service to scale up during peak periods and scale down during low utilization to optimize resource usage. 4. Use Resource Quotas: - Implement Resource Quotas at the namespace level to limit the total resources that can be consumed by the image processing service and its associated workloads. This helps prevent resource starvation for other applications within the same namespace. 5. Utilize Node Affinity and Tolerations: - Apply node affinity and tolerations to schedule the image processing service on nodes that have the necessary resources (like GPLJs or high- performance CPUs) to efficiently handle image processing tasks- 6. Consider Using GPU Resources: - If your image processing tasks involve heavy computations, consider leveraging GPUs for accelerated processing. You can configure Kubernetes to schedule pods with GPU resources, ensuring that the image processing service nas access to tne necessary hardware for optimal performance.

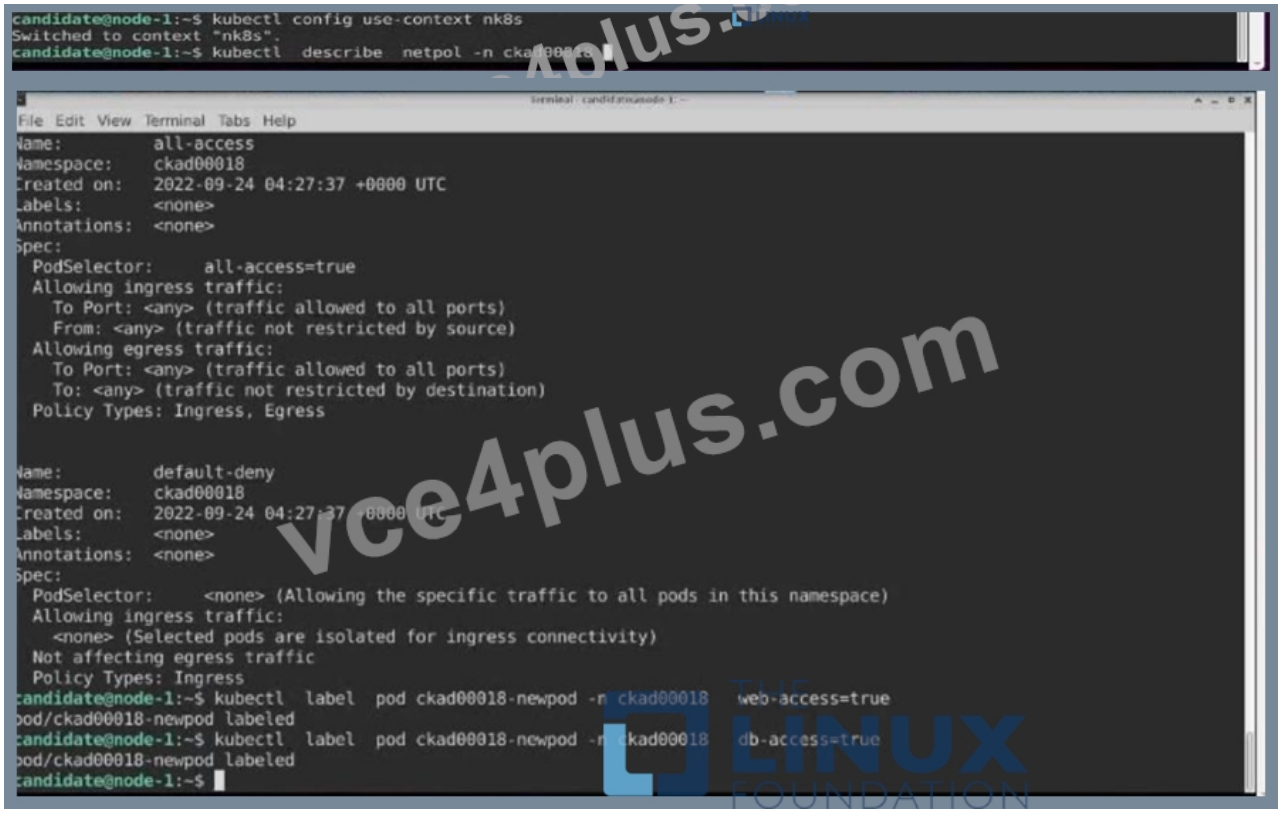
NEW QUESTION # 120
Refer to Exhibit.



Task:
Update the Pod ckad00018-newpod in the ckad00018 namespace to use a NetworkPolicy allowing the Pod to send and receive traffic only to and from the pods web and db

Answer:

Explanation:
Solution:



NEW QUESTION # 121
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