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```
77d
pv0007 7Gi RWX Recycle Available slow
77d
pv0006 8Gi RWX Recycle Available slow
77d
pv0003 10Gi RWX Recycle Available slow
77d
pv0002 11Gi RWX Recycle Available slow
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pv0010 13Gi RWX Recycle Available slow
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pv0011 14Gi RWX Recycle Available slow
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pv0001 16Gi RWX Recycle Available slow
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pv0009 17Gi RWX Recycle Available slow
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pv0005 18Gi RWX Recycle Available slow
77d
pv0008 19Gi RWX Recycle Available slow
77d
pv0000 21Gi RWX Recycle Available slow
77d
root@node-1:~# k get pv --sort-by=.spec.capacity.storage > /opt/RUCC00102/volume_list
root@node-1:~#
```

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The CKA certification is an essential credential for professionals who want to demonstrate their proficiency in Kubernetes administration. Certified Kubernetes Administrator (CKA) Program Exam certification is recognized worldwide and is highly valued by organizations that use Kubernetes in their production environments. Certified Kubernetes Administrator (CKA) Program Exam certification provides a competitive edge to professionals and helps them stand out in a crowded job market. The CKA program also provides candidates with access to a community of certified professionals, resources, and tools that can help them advance their careers in Kubernetes administration.

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The CKA exam is a performance-based exam that tests the practical skills of individuals in managing and deploying Kubernetes clusters. CKA exam consists of a series of hands-on tasks that are designed to simulate real-world scenarios. The tasks are designed to test the ability of individuals to deploy, manage, and troubleshoot Kubernetes clusters, as well as to configure networking, security, and storage. CKA Exam is conducted online and can be taken from anywhere in the world.

Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam Sample Questions (Q62-Q67):

NEW QUESTION # 62

Get list of all the pods showing name and namespace with a jsonpath expression.

Answer:

Explanation:

```
kubectl get pods -o=jsonpath="{.items[*]['metadata.name' , 'metadata.namespace']}"
```

NEW QUESTION # 63

You need to set up a load balancer for your Nginx service with the following requirements:

- Session affinity: Preserve client sessions across multiple pods, even if the pod is restarted or rescheduled.
 - Health checks: Regularly check the health of Nginx pods and automatically remove unhealthy pods from the load balancer pool.
 - Custom header: Add a custom header with the name "X-App-Version" and value "v1.0" to all requests to your Nginx service.
- How would you configure your Kubernetes resources to meet these requirements?

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Define the Service:

- Create a Service of type "LoadBalancer" for your Nginx service.
- Include the sessionAffinity' field with a value of 'ClientIP' to enable client IP-based session affinity.
- Example:

```
apiVersion: v1
kind: Service
metadata:
  name: nginx-service
spec:
  type: LoadBalancer
  selector:
    app: nginx
  sessionAffinity: ClientIP
  ports:
  - protocol: TCP
    port: 80
    targetPort: 80
```

2. Configure the Deployment: - In your Nginx Deployment, define a liveness probe and readiness probe to check the health of your Nginx containers. - Example:

```

apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-deployment
spec:
  replicas: 2
  selector:
    matchLabels:
      app: nginx
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:
        name: nginx
        image: nginx:latest
        livenessProbe:
          tcpSocket:
            port: 80
          initialDelaySeconds: 15
          periodSeconds: 20
          failureThreshold: 3
        readinessProbe:
          tcpSocket:
            port: 80
          initialDelaySeconds: 5
          periodSeconds: 10
          failureThreshold: 2

```

3. Implement the Custom Header: - Configure an Ingress resource with the `nginx.ingress.kubernetes.io/add-request-header` annotation. - Example:

```

apiVersion: networking.k8s.io/v1
kind: Ingress
metadata:
  name: nginx-ingress
  annotations:
    nginx.ingress.kubernetes.io/add-request-header: "X-App-Version: v1.0"
spec:
  rules:
  - host: example.com
    http:
      paths:
      - path: /
        backend:
          service:
            name: nginx-service
            port:
              number: 80

```

4. Apply the Configurations: - Apply the updated Service, Deployment, and Ingress resources using `kubectl apply -f service.yaml -f deployment.yaml -f ingress.yaml`. 5. Verify the Load Balancer: - Access the Nginx service using the external IP address provided by the LoadBalancer. - Verify session affinity by making multiple requests and observing that they are consistently routed to the same pod. - Check the "X-App-Version" header in the responses to confirm that it is set to "v1.0".

NEW QUESTION # 64

You are deploying an application on Kubernetes. You need to ensure that a minimum of three pods are always running for this application. How can you achieve this? Describe how to configure the deployment with a replica count and a liveness probe to monitor the health of the pods.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Create a Deployment with a Replica Count:

- Create a YAML file named 'deployment.yaml' with the following content:

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: myapp-deployment
spec:
  replicas: 3
  selector:
    matchLabels:
      app: myapp
  template:
    metadata:
      labels:
        app: myapp
    spec:
      containers:
        - name: myapp
          image: myapp:latest
          # ... other container configurations ...
```

- Apply the YAML file using 'kubectl apply -f deployment.yaml'. 2. Configure a Liveness Probe: - Update the 'deployment.yaml' file to include a liveness probe. For example, you could use a HTTP probe:

```
# ... other deployment configurations ...
containers:
- name: myapp
  image: myapp:latest
  # ... other container configurations ...
  livenessProbe:
    httpGet:
      path: /health
      port: 8080
    initialDelaySeconds: 15
    periodSeconds: 20
    failureThreshold: 3
```

- Apply the updated YAML file using 'kubectl apply -f deployment.yaml'. 3. Verify the Deployment: - Check the status of the deployment using 'get deployments myapp-deployment'. - Ensure that three pods are running and that the liveness probe is monitoring their health. You can use 'kubectl describe pod myapp-deployment-XXXX' (where XXXX is the pod name) to see the details of the pod and the liveness probe status.

NEW QUESTION # 65

An Administrator is configuring Authentication Enforcement and they would like to create an exemption rule to exempt a specific group from authentication. Which authentication enforcement object should they select?

- A. default-browser-challenge
- B. default-no-captive-port
- C. default-authentication-bypass
- D. default-web-form

Answer: B

NEW QUESTION # 66

Quick Reference



HorizontalPodAutoscaler Walkthrough

Horizontal Pod Autoscaling Deployment

You must connect to the correct host . Failure to do so may result in a zero score.

```
[candidate@base] $ ssh cka000050
```

Task

Create a new HorizontalPodAutoscaler (HPA) named apache-server in the autoscale namespace. This HPA must target the existing Deployment called apache-server in the autoscale namespace.
Set the HPA to aim for 50% CPU usage per Pod . Configure it to have at least 1 Pod and no more than 4 Pods . Also, set the downscale stabilization window to 30 seconds.

Answer:

Explanation:

Task Summary

- * Create an HPA named apache-server in the autoscale namespace.
- * Target an existing deployment also named apache-server.
- * CPU target: 50%
- * Pod range: min 1, max 4
- * Downscale stabilization window: 30 seconds

Step-by-Step Answer

Step 1: Connect to the correct host

This is critical, as shown in the warning image.

```
ssh cka000050
```

Skipping this may result in zero for this question!

Step 2: Verify the deployment exists

```
kubectl get deployment apache-server -n autoscale
```

Make sure it's there before creating the HPA. If it's missing, the HPA won't bind correctly.

Step 3: Create the HPA

We will use the kubectl autoscale command for a quick setup, then patch it to add the stabilization window (since kubectl autoscale doesn't include it).

```
kubectl autoscale deployment apache-server \
```

```
--namespace autoscale \
```

```
--cpu-percent=50 \
```

```
--min=1 \
```

```
--max=4
```

Step 4: Add the downscale stabilization window

You'll need to patch the HPA to include the stabilization window of 30s.

Create a patch file called hpa-patch.yaml:

```
spec:
```

```
behavior:
```

```
scaleDown:
```

```
stabilizationWindowSeconds: 30
```

Apply the patch:

```

bash
CopyEdit
kubectl patch hpa apache-server \
-n autoscale \
--patch "$(cat hpa-patch.yaml)"
# Step 5: Confirm your work
bash
CopyEdit
kubectl describe hpa apache-server -n autoscale
Look for:
* Min/Max Pods: 1/4
* Target CPU utilization: 50%
* Stabilization window: should appear under Behavior > ScaleDown
ssh cka000050
kubectl get deployment apache-server -n autoscale
kubectl autoscale deployment apache-server \
--namespace autoscale \
--cpu-percent=50 \
--min=1 \
--max=4
# Patch to add stabilization window
cat <<EOF > hpa-patch.yaml
spec:
behavior:
scaleDown:
stabilizationWindowSeconds: 30
EOF
kubectl patch hpa apache-server -n autoscale --patch "$(cat hpa-patch.yaml)"

```

NEW QUESTION # 67

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