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Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q41-Q46):

NEW QUESTION # 41

Consider the following Kubernetes resource configuration for a deployment:

```

apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-app
spec:
  replicas: 3
  selector:
    matchLabels:
      app: my-app
  template:
    metadata:
      labels:
        app: my-app
    spec:
      containers:
      - name: my-app-container
        image: my-app:latest
        resources:
          requests:
            cpu: 100m
            memory: 256Mi
          limits:
            cpu: 200m
            memory: 512Mi

```

If each pod is consistently utilizing only 50% of the requested CPU and memory, what are the potential cost-saving measures you could take without impacting performance?

- A. Utilize a vertical pod autoscaler (VPA) to dynamically adjust the resource requests and limits based on actual usage.
- B. Reduce the 'replicas' value to 2 to decrease the number of pods.
- C. Reduce the 'requests' values for CPU and memory to 50m and 128Mi, respectively.
- D. Increase the 'limits' values for CPU and memory to 400m and 1024Mi, respectively.
- E. Leave the current configuration as it is; the application is already optimized.

Answer: A,C

Explanation:

The application is overprovisioned as pods are only utilizing 50% of requested resources. Reducing the 'requests' values to reflect actual usage (50m CPU and 128Mi memory) would optimize resource allocation without affecting performance. A VPA can further refine the resource allocation dynamically based on actual usage, ensuring optimal resource utilization. Increasing 'limits' would not reduce costs and might even increase them. Reducing replicas might impact performance, while leaving the configuration unchanged would continue overprovisioning and waste resources.

NEW QUESTION # 42

Which of the following is not the Kubernetes AutoScaling Strategy?

- A. Horizontal Pod Autoscaler
- **B. Load Balancing AutoScaler**
- C. Vertical Pod Autoscaler
- D. Cluster Autoscaler

Answer: B

Explanation:

<https://learnk8s.io/kubernetes-autoscaling-strategies>

In Kubernetes, several things are referred to as "autoscaling", including:

- Horizontal Pod Autoscaler.
- Vertical Pod Autoscaler.
- Cluster Autoscaler.



NEW QUESTION # 43

Consider the following Prometheus query: `kube_pod_container_resource_requests_cpu_cores{pod="my-app-pod", container="my-app-container"} > 0.5` What does this query identify? Select all that apply.

- A. Pods named "my-app-pod" with a container named "my-app-container" that are experiencing high CPU utilization and may be resource-constrained.
- B. Pods named "my-app-pod" with a container named "my-app-container" that are running on a Kubernetes node with a CPU capacity of 0.5 cores or higher.
- C. Pods named "my-app-pod" with a container named "my-app-container" that are currently using more than 0.5 CPU cores.
- D. Pods named "my-app-pod" with a container named "my-app-container" that have a CPU limit set to 0.5 cores or higher.
- **E. Pods named "my-app-pod" with a container named "my-app-container" that are requesting more than 0.5 CPU cores.**

Answer: E

Explanation:

The correct answer is A. The Prometheus query `'kube_pod_container_resource_requests_cpu_cores{pod="my-app-pod", container="my-app-container"} > 0.5'` specifically targets the `'kube_pod_container_resource_requests_cpu_cores'` metric, which represents the amount of CPU resources requested by a container in a pod. The query filters for pods with the name `'my-app-pod'` and containers with the name `'my-app-container'`. The `0.5` condition indicates that the query only returns results where the requested CPU cores are greater than 0.5. The other options are incorrect: B : The query does not monitor the actual CPU usage. It focuses on the requested CPU resources, not the currently consumed CPU. C : This query does not relate to CPU limits. It focuses on the requested CPU resources, not the defined limits. D : While a pod exceeding its requested resources might indicate resource constraints, this query doesn't provide information about the actual CPU usage, only the requested resources. E : The query does not contain information about the node's CPU capacity. It focuses solely on the resources requested by a specific container within a pod.

NEW QUESTION # 44

You are monitoring a Kubernetes cluster using Prometheus. You notice a sudden spike in the number of requests to a specific pod, followed by a corresponding increase in pod CPU utilization. Which Prometheus query can you use to identify the specific endpoint being heavily accessed?

- A. `kube_pod_status_phase{pod=""}`
- **B. `kube_http_server_requests_seconds_bucket{job="", method="GET", uri="/specific_endpoint"}`**
- C. `kube_pod_container_resource_requests_cpu_cores{pod=""}`
- D. `kube_deployment_status_replicas{deployment=""}`
- E. `kube_pod_container_status_restart_count{pod=""}`

Answer: B

Explanation:

The correct answer is E. The query 'kube_http_server_requests_seconds_bucket{job="", method="GET", uri="/specific_endpoint"}' targets HTTP requests made to a specific endpoint within a pod (identified by the •job', •method', and 'uri' labels). This query allows you to see the number of requests made to the '/specific_endpoint' and identify spikes in traffic to that endpoint. The other options are not relevant to identifying specific endpoints being heavily accessed. Option A shows CPU resource requests for a pod, option B shows the pod's phase, option C shows the number of replicas in a deployment, and option D shows the restart count for a pod's containers. These queries do not provide information about specific endpoints and traffic patterns.

NEW QUESTION # 45

You are running a web application in Kubernetes. The application uses a database that is accessed by multiple Pods. You want to ensure that the database connection details are securely stored and accessed by the Pods. Which Kubernetes feature would you use for this purpose?

- A. ConfigMap
- B. Service
- C. PersistentVolumeClaim
- D. Namespace
- E. Secret

Answer: E

Explanation:

Secrets are Kubernetes resources that allow you to store sensitive information, such as passwords, API keys, and certificates. You can then mount Secrets into Pods, allowing them to securely access the information they need without exposing it in plain text.

NEW QUESTION # 46

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