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The Linux Foundation KCNA exam is suitable for individuals who have a basic understanding of Linux and containers and want to deepen their knowledge of Kubernetes and cloud native technologies. It covers a range of topics, including Kubernetes architecture, deployment and maintenance, networking, security, and troubleshooting. KCNA Exam is conducted online and consists of multiple-choice questions that test the candidate's understanding of these concepts.

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Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q60-Q65):

NEW QUESTION # 60

You are using ArgoCD to manage your Kubernetes cluster with GitOps. How can you configure ArgoCD to automatically update the cluster when a new image tag is pushed to a container registry?

- A. Use the `*imagePullSecrets*` field in the deployment configuration to provide the registry credentials to ArgoCD.
- B. Use the `*imagePullPolicy*` field in the container definition to automatically pull the latest image.
- **C. Configure ArgoCD to use a webhook that triggers an update whenever a new image tag is pushed.**
- D. Configure ArgoCD to use a Cron job that regularly checks for new image tags.
- E. Use the `*imageUpdateStrategy*` field in the deployment configuration to define the update policy.

Answer: C

Explanation:

ArgoCD can be configured to use webhooks, which are HTTP callbacks triggered by events like image pushes to container registries. This allows ArgoCD to automatically update the cluster whenever a new image tag is pushed, ensuring your deployments are always using the latest image versions.

NEW QUESTION # 61

Which of the following characteristics is associated with container orchestration?

- A. Application message distribution
- B. Deploying application JAR files
- **C. Dynamic scheduling**
- D. Virtual machine distribution

Answer: C

Explanation:

A core capability of container orchestration is dynamic scheduling, so B is correct. Orchestration platforms (like Kubernetes) are responsible for deciding where containers (packaged as Pods in Kubernetes) should run, based on real-time cluster conditions and declared requirements. "Dynamic" means the system makes placement decisions continuously as workloads are created, updated, or fail, and as cluster capacity changes.

In Kubernetes, the scheduler evaluates Pods that have no assigned node, filters nodes that don't meet requirements (resources, taints/tolerations, affinity/anti-affinity, topology constraints), and then scores remaining nodes to pick the best target. This scheduling happens at runtime and adapts to the current state of the cluster. If nodes go down or Pods crash, controllers create replacements and the scheduler places them again-another aspect of dynamic orchestration.

The other options don't define container orchestration: "application message distribution" is more about messaging systems or service communication patterns, not orchestration. "Deploying application JAR files" is a packaging/deployment detail relevant to Java apps but not a defining orchestration capability. "Virtual machine distribution" refers to VM management rather than container orchestration; Kubernetes focuses on containers and Pods (even if those containers sometimes run in lightweight VMs via sandbox runtimes).

So, the defining trait here is that an orchestrator automatically and continuously schedules and reschedules workloads, rather than relying on static placement decisions.

NEW QUESTION # 62

Which of the following is the correct command to run an nginx deployment with 2 replicas?

- A. `kubectl run deploy nginx --image=nginx --replicas=2`
- B. `kubectl create nginx deployment --image=nginx --replicas=2`
- **C. `kubectl create deploy nginx --image=nginx --replicas=2`**
- D. `kubectl create deploy nginx --image=nginx --count=2`

Answer: C

Explanation:

The correct answer is B: `kubectl create deploy nginx --image=nginx --replicas=2`. This uses `kubectl create deployment` (shorthand `create deploy`) to generate a Deployment resource named `nginx` with the specified container image. The `--replicas=2` flag sets the desired replica count, so Kubernetes will create two Pod replicas (via a ReplicaSet) and keep that number stable.

Option A is incorrect because `kubectl run` is primarily intended to run a Pod (and in older versions could generate other resources, but it's not the recommended/consistent way to create a Deployment in modern `kubectl` usage). Option C is invalid syntax: `kubectl subcommand order` is incorrect; you don't say `kubectl create nginx deployment`. Option D uses a non-existent `--count` flag for Deployment replicas.

From a Kubernetes fundamentals perspective, this question tests two ideas: (1) Deployments are the standard controller for running stateless workloads with a desired number of replicas, and (2) `kubectl create deployment` is a common imperative shortcut for generating that resource. After running the command, you can confirm with `kubectl get deploy nginx`, `kubectl get rs`, and `kubectl get pods -l app=nginx` (label may vary depending on `kubectl` version). You'll see a ReplicaSet created and two Pods brought up. In production, teams typically use declarative manifests (`kubectl apply -f`) or GitOps, but knowing the imperative command is useful for quick labs and validation. The key is that replicas are managed by the controller, not by manually starting containers-Kubernetes reconciles the state continuously. Therefore, B is the verified correct command.

NEW QUESTION # 63

Your organization is adopting a cloud-native approach and plans to migrate several legacy applications to Kubernetes. Which role would be primarily responsible for designing and implementing the overall Kubernetes infrastructure, including resource allocation, networking, and security policies?

- A. Data Scientist
- B. Security Engineer
- C. DevOps Engineer
- **D. Cloud Architect**
- E. Site Reliability Engineer (SRE)

Answer: D

Explanation:

A Cloud Architect is responsible for the overall design, implementation, and management of cloud-based infrastructure, including Kubernetes- They ensure the infrastructure meets the organization's needs for scalability, security, and performance.

NEW QUESTION # 64

Which is the correct `kubectl` command to display logs in real time?

- **A. `kubectl logs -f test-container-1`**
- B. `kubectl logs -c test-container-1`
- C. `kubectl logs -l test-container-1`
- D. `kubectl logs -p test-container-1`

Answer: A

Explanation:

To stream logs in real time with `kubectl`, you use the follow option `-f`, so D is correct. In Kubernetes, `kubectl logs` retrieves logs from containers in a Pod. By default, it returns the current log output and exits. When you add `-f`, `kubectl` keeps the connection open and continuously prints new log lines as they are produced, similar to `tail -f` on Linux. This is especially useful for debugging live behavior, watching startup sequences, or monitoring an application during a rollout.

The other flags serve different purposes. `-p` (as seen in option A) requests logs from the previous instance of a container (useful after a restart/crash), not real-time streaming. `-c` (option B) selects a specific container within a multi-container Pod; it doesn't stream by itself (though it can be combined with `-f`). `-l` (option C) is used with `kubectl logs` to select Pods by label, but again it is not the streaming flag; streaming requires `-f`.

In real troubleshooting, you commonly combine flags, e.g. `kubectl logs -f pod-name -c container-name` for streaming logs from a specific container, or `kubectl logs -f -l app=myapp` to stream from Pods matching a label selector (depending on `kubectl` behavior/version). But the key answer to "display logs in real time" is the follow flag: `-f`.

Therefore, the correct selection is D.

NEW QUESTION # 65

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