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position for a long period causes shortening of the muscles in the calf, called "foot drop". This change becomes a problem when the person is able to walk because the ankle is unable to flex to the functional position necessary for walking. A footboard helps to prevent this by keeping the feet in proper alignment. Range of motion (ROM) exercises are also helpful. Residents who must stay in bed and are less active also at greater risk for health issues such as pneumonia, pressure ulcers and constipation.

A resident with advance directives has a DNR order. This means that the resident?

- A. does not remember.
- B. should not be restrained.
- C. does not respond to instructions.
- D. should not be resuscitated. --CORRECT ANSWER--correct answer: D

Rationale: DNR is the abbreviation for "do not resuscitate." Resuscitations are actions that are taken to restart the heart when it stops. When a resident directs that he or she does not want to be resuscitated, this means that when the heart stops beating, the resident does not want to have measures taken to try to restart the heart, such as performing cardiopulmonary resuscitation (CPR) or use of a defibrillator.

Residents are given the opportunity to complete advance directives. Advance directives provide information to the staff about the resident's decisions for medical care, when the resident is no longer able to express those decisions. A DNR order is determined by the resident and his or her family, and is documented in the resident's medical record and care plan.

A nurse aide notices that a resident with dementia is walking with a limp on the right foot. The nurse aide's first response should be to

- A. return the resident to bed.
- B. provide the resident with a cane.
- C. tell the nurse the resident is having foot pain.
- D. remove the resident's shoe and inspect the foot. --CORRECT ANSWER--correct answer: D

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Linux Foundation KCNA certification exam is an online, proctored exam that can be taken from anywhere in the world. KCNA exam consists of 50 multiple-choice questions that must be completed within 90 minutes. KCNA Exam is designed to assess the candidate's understanding of Kubernetes and cloud-native computing, as well as their ability to apply this knowledge to real-world scenarios.

## Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q108-Q113):

### NEW QUESTION # 108

What is the name for the tool that manages communication between pods, injects a sidecar proxy container into each pod and directs network traffic through the proxy container?

- A. Deployment
- B. namespace
- C. Network policy
- D. Service mesh
- E. Service

**Answer: D**

### NEW QUESTION # 109

How are ReplicaSets and Deployments related?

- A. Deployments manage ReplicaSets and provide declarative updates to Pods.
- B. ReplicaSets manage stateful applications, Deployments manage stateless applications.
- C. Deployments are runtime instances of ReplicaSets.
- D. ReplicaSets are subsets of Jobs and CronJobs which use imperative Deployments.

**Answer: A**

Explanation:

In Kubernetes, a Deployment is a higher-level controller that manages ReplicaSets, and ReplicaSets in turn manage Pods. That is exactly what option A states, making it the correct answer.

A ReplicaSet's job is straightforward: ensure that a specified number of Pod replicas matching a selector are running. It continuously reconciles actual state to desired state by creating new Pods when replicas are missing or removing Pods when there are too many. However, ReplicaSets alone do not provide the richer application rollout lifecycle features most teams need.

A Deployment adds those features by managing ReplicaSets across versions of your Pod template. When you update a Deployment (for example, change the container image tag), Kubernetes creates a new ReplicaSet with the new Pod template and then gradually scales the new ReplicaSet up and the old one down according to the Deployment strategy (RollingUpdate by default). Deployments also maintain rollout history, support rollback (kubectl rollout undo), and allow pause/resume of rollouts. This is why the common guidance is: you almost always create Deployments rather than ReplicaSets directly for stateless apps.

Option B is incorrect because stateful workloads are typically handled by StatefulSets, not ReplicaSets. Deployments can run stateless apps, but ReplicaSets are also used under Deployments and are not "for stateful only." Option C is reversed: ReplicaSets are not "instances" of Deployments; Deployments create/manage ReplicaSets. Option D is incorrect because Jobs/CronJobs are separate controllers for run-to-completion workloads and do not define ReplicaSets as subsets.

So the accurate relationship is: Deployment → manages ReplicaSets → which manage Pods, enabling declarative updates and controlled rollouts.

## NEW QUESTION # 110

What's the most adopted way of conflict resolution and decision-making for the open-source projects under the CNCF umbrella?

- A. Project Founder Say
- B. Discussion and Voting
- C. Financial Analysis
- D. Flipism Technique

**Answer: B**

Explanation:

B (Discussion and Voting) is correct. CNCF-hosted open-source projects generally operate with open governance practices that emphasize transparency, community participation, and documented decision-making. While each project can have its own governance model (maintainers, technical steering committees, SIGs, TOC interactions, etc.), a very common and widely adopted approach to resolving disagreements and making decisions is to first pursue discussion (often on GitHub issues/PRs, mailing lists, or community meetings) and then use voting/consensus mechanisms when needed.

This approach is important because open-source communities are made up of diverse contributors across companies and geographies. "Project Founder Say" (D) is not a sustainable or typical CNCF governance norm for mature projects; CNCF explicitly encourages neutral, community-led governance rather than single-person control. "Financial Analysis" (A) is not a conflict resolution mechanism for technical decisions, and "Flipism Technique" (C) is not a real governance practice.

In Kubernetes specifically, community decisions are often made within structured groups (e.g., SIGs) using discussion and consensus-building, sometimes followed by formal votes where governance requires it. The goal is to ensure decisions are fair, recorded, and aligned with the project's mission and contributor expectations. This also reduces risk of vendor capture and builds trust: anyone can review the rationale in meeting notes, issues, or PR threads, and decisions can be revisited with new evidence.

Therefore, the most adopted conflict resolution and decision-making method across CNCF open-source projects is discussion and voting, making B the verified correct answer.

## NEW QUESTION # 111

Your organization is migrating a monolithic application to a serverless architecture on Google Cloud Platform. Which Google Cloud service would be the most suitable for running your application's backend logic?

- A. Google Cloud SQL
- B. Google Cloud Storage
- C. Google App Engine
- D. Google Cloud Functions
- E. Google Kubernetes Engine (GKE)

**Answer: D**

Explanation:

Google Cloud Functions is the ideal choice for running backend logic in a serverless environment on Google Cloud. It offers a fully managed serverless execution environment for event-driven code. App Engine (A) is more suited for web applications. GKE (B) is a container orchestration service. Cloud Storage (D) is for data storage, and Cloud SQL (E) is for relational databases.

## NEW QUESTION # 112

What is the core functionality of GitOps tools like Argo CD and Flux?

- A. They replace human operations with an agent that tracks Git commands.
- B. They automatically create pull requests when dependencies are outdated.
- C. They continuously compare the desired state in Git with the actual production state and notify or act upon differences.
- D. They track production changes made by a human in a Git repository and generate a human-readable audit trail.

**Answer: C**

Explanation:

The defining capability of GitOps controllers such as Argo CD and Flux is continuous reconciliation: they compare the desired state stored in Git to the actual state in the cluster and then alert and/or correct drift, making D correct. In GitOps, Git becomes the single source of truth for declarative configuration (Kubernetes manifests, Helm charts, Kustomize overlays). The controller watches Git for changes and applies them, and it also watches the cluster for divergence.

This is more than "auditing human changes" (option A). GitOps does provide auditability because changes are made via commits and pull requests, but the core functionality is the reconciliation loop that keeps cluster state aligned with Git, including optional automated sync/remediation. Option B is not accurate because GitOps is not about tracking user Git commands; it's about reconciling desired state definitions. Option C (automatically creating pull requests for outdated dependencies) is a useful feature in some tooling ecosystems, but it is not the central defining behavior of GitOps controllers.

In Kubernetes delivery terms, this approach improves reliability: rollouts become repeatable, configuration drift is detected, and recovery is simpler (reapply known-good state from Git). It also supports separation of duties: platform teams can control policies and base layers, while app teams propose changes via PRs.

So the verified statement is: GitOps tools continuously reconcile Git desired state with cluster actual state-exactly option D.

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## NEW QUESTION # 113

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