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The KCNA certification exam is an excellent opportunity for individuals who are looking to start a career in cloud computing. It is an entry-level certification that covers a wide range of topics, including Kubernetes and cloud-native technologies. KCNA exam is designed to be accessible to everyone, and individuals can take it from anywhere in the world. With the right preparation and training, passing the KCNA certification exam can open up new career opportunities and help individuals establish themselves in the field of cloud computing.

Linux Foundation KCNA Certification Exam is an ideal choice for professionals looking to enhance their skills and advance their careers in the field of cloud-native computing. It is a comprehensive and rigorous exam that tests the candidate's knowledge and competency in Kubernetes and cloud-native computing. Kubernetes and Cloud Native Associate certification is recognized globally and provides access to a community of professionals who are passionate about cloud-native computing and Kubernetes.

## Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q234-Q239):

### NEW QUESTION # 234

What is a key feature of a container network?

- A. Caching remote disk access.
- B. Allowing containers on the same host to communicate.
- C. Allowing containers running on separate hosts to communicate.
- D. Proxying REST requests across a set of containers.

**Answer: C**

Explanation:

A defining requirement of container networking in orchestrated environments is enabling workloads to communicate across hosts, not just within a single machine. That's why B is correct: a key feature of a container network is allowing containers (Pods) running on separate hosts to communicate.

In Kubernetes, this idea becomes the Kubernetes network model: every Pod gets an IP address, and Pods should be able to communicate with other Pods across nodes without needing NAT (depending on implementation details). Achieving that across a cluster requires a networking layer (typically implemented by a CNI plugin) that can route traffic between nodes so that Pod-to-Pod communication works regardless of placement. This is crucial because schedulers dynamically place Pods; you cannot assume two communicating components will land on the same node.

Option C is true in a trivial sense—containers on the same host can communicate—but that capability alone is not the key feature that makes orchestration viable at scale. Cross-host connectivity is the harder and more essential property. Option A describes application-layer behavior (like API gateways or reverse proxies) rather than the foundational networking capability. Option D describes storage optimization, unrelated to container networking.

From a cloud native architecture perspective, reliable cross-host networking enables microservices patterns, service discovery, and distributed systems behavior. Kubernetes Services, DNS, and NetworkPolicies all depend on the underlying ability for Pods across the cluster to send traffic to each other. If your container network cannot provide cross-node routing and reachability, the cluster behaves like isolated islands and breaks the fundamental promise of orchestration: "schedule anywhere, communicate consistently."

### NEW QUESTION # 235

Which of the following are not the metrics for Site Reliability Engineering?

- A. Service Level Indicators 'SLI'
- B. Service Level Objectives 'SLO'
- C. Service Level Agreements 'SLA'
- D. Service Level Definition 'SLD'

**Answer: D**

Explanation:

SLI defined quantitative measure of some aspect of the level of service that is provided.

SLOs are key to making data-driven decisions about reliability, they're at the core of SRE practices.

SLAs an explicit or implicit contract with your users that includes consequences of meeting (or missing) the SLOs they contain.

### NEW QUESTION # 236

You are running a multi-cluster Kubernetes environment with Istio deployed. You need to ensure that communication between services across different clusters is secure and encrypted. What Istio configuration would you use to achieve this?

- A. Use the 'ingress' and 'egress' settings in the 'istio.io/gateway' configuration
- B. Deploy a dedicated Istio control plane for each cluster and configure cross-cluster communication
- C. Configure the 'mtls' setting to 'STRICT' in the Istio control plane
- D. Enable 'Mutual TLS' authentication for all services in the Istio configuration
- E. Use the 'peerAuthentication' setting in the 'istio.io/auth' annotation on services

**Answer: D**

Explanation:

To secure inter-cluster communication with Istio, you need to enable Mutual TLS (mTLS) authentication. This ensures that all communication between services, even across different clusters, is encrypted and verified. Options A and B are partially correct but don't cover the full scope of inter-cluster security. Option C is not recommended as it creates complexity in managing multiple control planes. Option E is used for managing ingress and egress traffic but doesn't directly address inter-cluster security

#### NEW QUESTION # 237

Which of the following is a correct definition of a Helm chart?

- A. A Helm chart is a collection of YAML files bundled in a tar.gz file and can be applied without decompressing it.
- B. A Helm chart is a collection of JSON files and contains all the resource definitions to run an application on Kubernetes.
- C. A Helm chart is similar to a package and contains all the resource definitions to run an application on Kubernetes.
- D. A Helm chart is a collection of YAML files that can be applied on Kubernetes by using the kubectl tool.

**Answer: C**

Explanation:

A Helm chart is best described as a package for Kubernetes applications, containing the resource definitions (as templates) and metadata needed to install and manage an application—so D is correct. Helm is a package manager for Kubernetes; the chart is the packaging format. Charts include a Chart.yaml (metadata), a values.yaml (default configuration values), and a templates/ directory containing Kubernetes manifests written as templates. When you install a chart, Helm renders those templates into concrete Kubernetes YAML manifests by substituting values, then applies them to the cluster.

Option A is misleading/incomplete. While charts are often distributed as a compressed tarball (.tgz), the defining feature is not "YAML bundled in tar.gz" but the packaging and templating model that supports install/upgrade/rollback. Option B is incorrect because Helm charts are not "collections of JSON files" by definition; Kubernetes resources can be expressed as YAML or JSON, but Helm charts overwhelmingly use templated YAML. Option C is incorrect because charts are not simply YAML applied by kubectl; Helm manages releases, tracks installed resources, and supports upgrades and rollbacks. Helm uses Kubernetes APIs under the hood, but the value of Helm is the lifecycle and packaging system, not "kubectl apply." In cloud-native application delivery, Helm helps standardize deployments across environments (dev/stage/prod) by externalizing configuration through values. It reduces copy/paste and supports reuse via dependencies and subcharts. Helm also supports versioning of application packages, allowing teams to upgrade predictably and roll back if needed—critical for production change management.

So, the correct and verified definition is D: a Helm chart is like a package containing the resource definitions needed to run an application on Kubernetes.

#### NEW QUESTION # 238

How would you return all the pod data in the json format using kubectl command?

- A. kubectl get pods -o wide
- B. kubectl get pods --all-namespaces
- C. kubectl get pods -o json
- D. kubectl get pods -o jsonpath

**Answer: C**

Explanation:

<https://kubernetes.io/docs/reference/generated/kubectl/kubectl-commands#get>

#### NEW QUESTION # 239

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