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Linux Foundation KCNA Exam is a certification program that validates an individual's knowledge of Kubernetes and cloud-native technologies. KCNA exam is designed to be challenging and is suitable for IT professionals who are interested in working with these technologies. Kubernetes and Cloud Native Associate certification is recognized by leading companies in the tech industry and can help individuals advance their career and increase their earning potential. Candidates are encouraged to prepare thoroughly before attempting the exam to ensure success.

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The KCNA Exam is intended for individuals who have a basic understanding of Linux, containerization, and cloud computing. It is a vendor-neutral certification that covers a wide range of topics, including Kubernetes architecture, deployment, networking, storage, and security. KCNA Exam also covers other cloud-native technologies such as Docker, Helm, and Prometheus.

## Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q135-Q140):

### NEW QUESTION # 135

What default level of protection is applied to the data in Secrets in the Kubernetes API?

- A. The values are stored in plain text
- **B. The values are base64 encoded**
- C. The values are encoded with SHA256 hashes
- D. The values use AES symmetric encryption

**Answer: B**

Explanation:

Kubernetes Secrets are designed to store sensitive data such as tokens, passwords, or certificates and make them available to Pods in controlled ways (as environment variables or mounted files). However, the default protection applied to Secret values in the Kubernetes API is base64 encoding, not encryption. That is why D is correct. Base64 is an encoding scheme that converts binary data into ASCII text; it is reversible and does not provide confidentiality.

By default, Secret objects are stored in the cluster's backing datastore (commonly etcd) as base64-encoded strings inside the Secret manifest. Unless the cluster is configured for encryption at rest, those values are effectively stored unencrypted in etcd and may be visible to anyone who can read etcd directly or who has API permissions to read Secrets. This distinction is critical for security: base64 can prevent accidental issues with special characters in YAML/JSON, but it does not protect against attackers.

Option A is only correct if encryption at rest is explicitly configured on the API server using an EncryptionConfiguration (for example, AES-CBC or AES-GCM providers). Many managed Kubernetes offerings enable encryption at rest for etcd as an option or by default, but that is a deployment choice, not the universal Kubernetes default. Option C is incorrect because hashing is used for verification, not for secret retrieval; you typically need to recover the original value, so hashing isn't suitable for Secrets. Option B ("plain text") is misleading: the stored representation is base64-encoded, but because base64 is reversible, the security outcome is close to plain text unless encryption at rest and strict RBAC are in place.

The correct operational stance is: treat Kubernetes Secrets as sensitive; lock down access with RBAC, enable encryption at rest, avoid broad Secret read permissions, and consider external secret managers when appropriate. But strictly for the question's wording-default level of protection-base64 encoding is the right answer.

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#### NEW QUESTION # 136

Which project is not a dominant CNCF project in the storage landscape?

- A. Rook
- B. Vitess
- C. Envoy
- D. TiKV

**Answer: C**

Explanation:

<https://github.com/cncf/landscape#trail-map>

#### NEW QUESTION # 137

What Linux namespace is shared by default by containers running within a Kubernetes Pod?

- A. Process Name
- B. Host Network
- C. Process ID
- D. Network

**Answer: D**

Explanation:

By default, containers in the same Kubernetes Pod share the network namespace, which means they share the same IP address and port space. Therefore, the correct answer is B (Network).

This shared network namespace is a key part of the Pod abstraction. Because all containers in a Pod share networking, they can communicate with each other over localhost and coordinate tightly, which is the basis for patterns like sidecars (service mesh proxies, log shippers, config reloaders). It also means containers must coordinate port usage: if two containers try to bind the same port on 0.0.0.0, they'll conflict because they share the same port namespace.

Option A ("Host Network") is different: hostNetwork: true is an optional Pod setting that puts the Pod into the node's network namespace, not the Pod's shared namespace. It is not the default and is generally used sparingly due to security and port-collision risks. Option C ("Process ID") is not shared by default in Kubernetes; PID namespace sharing requires explicitly enabling process namespace sharing (e.g., shareProcessNamespace: true). Option D ("Process Name") is not a Linux namespace concept.

The Pod model also commonly implies shared storage volumes (if defined) and shared IPC namespace in some configurations, but the universally shared-by-default namespace across containers in the same Pod is the network namespace. This default behavior is why Kubernetes documentation explains a Pod as a "logical host" for one or more containers: the containers are co-located and

share certain namespaces as if they ran on the same host.

So, the correct, verified answer is B: containers in the same Pod share the Network namespace by default.

### NEW QUESTION # 138

Which of the following is not a stop on the cloud native trailmap?

- A. Containerization
- B. CI/CD
- C. **Microservices**
- D. Software distribution

**Answer: C**

Explanation:

<https://github.com/cncf/landscape#trail-map>

### NEW QUESTION # 139

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

**Answer: E**

### NEW QUESTION # 140

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