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HashiCorp Certified: Vault Associate (003) Exam Sample Questions (Q151-Q156):

NEW QUESTION # 151

What occurs when a Vault cluster cannot maintain a quorum while using the Integrated Storage backend?

- **A. The cluster becomes unavailable and cannot commit new logs**
- B. Vault continues to operate in read-only mode until quorum is restored
- C. Vault temporarily switches to local storage until quorum is regained
- D. Vault automatically promotes a standby node to a leader to restore quorum

Answer: A

Explanation:

Comprehensive and Detailed In-Depth Explanation:

Integrated Storage (Raft) requires a quorum:

* B. Unavailable: "If a cluster cannot achieve quorum, the cluster becomes unavailable and cannot commit new logs." Quorum is "a majority of members from a peer set," e.g., 3 of 5 nodes.

* Incorrect Options:

* A. Read-Only: "Does not continue to operate in read-only mode."

* C. Auto-Promotion: "Does not automatically promote a standby node."

* D. Local Storage: "Does not temporarily switch to local storage."

Quorum loss halts operations to ensure consistency.

Reference: <https://developer.hashicorp.com/vault/docs/v1.16.x/internals/integrated-storage>

NEW QUESTION # 152

A security architect is designing a solution to address the "Secret Zero" problem for a Kubernetes-based application that needs to authenticate to HashiCorp Vault. Which approach correctly leverages Vault features to solve this challenge?

- A. Store the Vault root token in a ConfigMap and mount it to all containers that require access to sensitive information
- B. Generate a long-lived token during deployment and store it as an environment variable within each container that needs to access Vault
- C. Implement a custom sidecar container that uses AppRole role-id and secret-id each time the application needs to access Vault
- **D. Configure the Kubernetes auth method in Vault and enable applications to authenticate without pre-shared secrets**

Answer: D

Explanation:

Comprehensive and Detailed In-Depth Explanation:

The Kubernetes auth method addresses Secret Zero by using service account tokens. The Vault documentation states:

"The 'Secret Zero' problem refers to the bootstrapping challenge of how applications can authenticate to a secrets management system without requiring an initial secret. In a Kubernetes environment, the Kubernetes Auth Method in Vault allows applications to authenticate using their Kubernetes service account tokens, which are automatically provided to pods. The Vault server validates these tokens against the Kubernetes API server, establishing a chain of trust where applications can authenticate to Vault without pre-shared secrets."

-Vault Auth Methods

* C: Correct. Eliminates pre-shared secrets:

"Configuring the Kubernetes auth method in Vault allows applications running in Kubernetes to authenticate to Vault without the need for pre-shared secrets."

-Vault Auth: Kubernetes

* A,B: Introduce static secrets, worsening Secret Zero.

* D: Retains pre-shared secrets (role-id/secret-id).

References:

Vault Auth Methods

NEW QUESTION # 153

What can be used to limit the scope of a credential breach?

- A. Storage of secrets in a distributed ledger
- B. Sharing credentials between applications
- C. Enable audit logging
- D. Use of a short-lived dynamic secrets

Answer: D

Explanation:

Using a short-lived dynamic secrets can help limit the scope of a credential breach by reducing the exposure time of the secrets. Dynamic secrets are generated on-demand by Vault and automatically revoked when they are no longer needed. This way, the credentials are not stored in plain text or in a static database, and they can be rotated frequently to prevent unauthorized access. Dynamic secrets also provide encryption as a service, which means that they perform cryptographic operations on data in-transit without storing any data. This adds an extra layer of security and reduces the risk of data leakage or tampering. References: Dynamic secrets | Vault | HashiCorp Developer, What are dynamic secrets and why do I need them? - HashiCorp

NEW QUESTION # 154

Where does the Vault Agent store its cache?

- A. In the Vault key/value store
- B. In memory
- C. In a file encrypted using the Vault transit secret engine
- D. In an unencrypted file

Answer: B

Explanation:

The Vault Agent stores its cache in memory, which means that it does not persist the cached tokens and secrets to disk or any other storage backend. This makes the cache more secure and performant, as it avoids exposing the sensitive data to potential attackers or unauthorized access. However, this also means that the cache is volatile and will be lost if the agent process is terminated or restarted. To mitigate this, the agent can optionally use a persistent cache file to restore the tokens and leases from a previous agent process. The persistent cache file is encrypted using a key derived from the agent's auto-auth token and a nonce, and it is stored in a user-specified location on disk. References: Caching - Vault Agent | Vault | HashiCorp Developer, Vault Agent Persistent Caching | Vault | HashiCorp Developer

NEW QUESTION # 155

Which statement most accurately describes how the response wrapping feature functions in Vault?

- A. Vault divides the response into separate parts and stores each part in different tokens, requiring all tokens to be combined before disclosing the secret to the requesting client.
- B. Vault takes the response it would have sent to an HTTP client and instead inserts it into the cubbyhole of a single-use token, returning that single-use token instead.
- C. Vault encrypts the response with a dedicated key and sends it directly to the client, never storing it on the server or using single-use tokens for additional security.
- D. Vault duplicates the response within a persistent token and allows multiple unwraps, ensuring that any user with the correct token can retrieve the secret repeatedly without time restrictions.

Answer: B

Explanation:

Comprehensive and Detailed in Depth Explanation:

The response wrapping feature in Vault functions by securing responses in a single-use token's cubbyhole.

The HashiCorp Vault documentation states: "To help address this problem, Vault includes a feature called response wrapping. When requested, Vault can take the response it would have sent to an HTTP client and instead insert it into the cubbyhole of a single-use

token, returning that single-use token instead." This ensures the response is accessible only once by the intended recipient. The docs further explain: "Logically speaking, the response is wrapped by the token, and retrieving it requires an unwrap operation against this token. Functionally speaking, the token provides authorization to use an encryption key from Vault's keyring to decrypt the data." Options B, C, and D misrepresent this process-no dedicated key encryption, no splitting into multiple tokens, and no persistent multi-use tokens occur. Thus, A is correct.

Reference:

HashiCorp Vault Documentation - Response Wrapping

NEW QUESTION # 156

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