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F5 F5CAB2 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Determine expected traffic behavior based on configuration: This domain focuses on predicting traffic behavior based on persistence, processing order, object status, egress IPs, and connection rate limits.
Topic 2	<ul style="list-style-type: none"> Define ADC application objects: This domain covers ADC basics including application objects, load balancing methods, server selection, and key ADC features and benefits.

Topic 3	<ul style="list-style-type: none"> • Explain high availability (HA) concepts: This domain addresses HA concepts including integrity methods, implementation approaches, and advantages of high availability configurations.
Topic 4	<ul style="list-style-type: none"> • Identify the different virtual server types: This domain covers BIG-IP virtual server types: Standard, Forwarding, Stateless, Reject, Performance Layer 4, and Performance HTTP.
Topic 5	<ul style="list-style-type: none"> • Explain the relationship between interfaces, trunks, VLANs, self-IPs, routes and their status • statistics: This domain covers BIG-IP networking components including interfaces, trunks, VLANs, self-IPs, and routes, their dependencies and status, plus predicting traffic paths and egress IPs.

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F5 BIG-IP Administration Data Plane Concepts (F5CAB2) Sample Questions (Q37-Q42):

NEW QUESTION # 37

Which statement is true concerning cookie persistence?

- A. Cookie persistence uses a cookie that stores the virtual server, pool name, and member IP address in clear text.
- B. Cookie persistence allows persistence even if the data are encrypted from client to pool member.
- C. If a client's browser accepts cookies, cookie persistence will always cause a cookie to be written to the client's file system.
- **D. Cookie persistence allows persistence independent of IP addresses.**

Answer: D

Explanation:

Cookie Persistence is a Layer 7 persistence method that leverages an HTTP cookie to track a user session.

* IP Independence: Unlike "Source Address Affinity" (which relies on the client's IP), Cookie persistence identifies the session based on a unique token provided by the BIG-IP system. This is crucial for environments where many users share a single gateway (NAT) or where a client's IP might change mid-session.

* Encryption and Decryption: For the BIG-IP to insert or read a cookie, it must be able to see the HTTP header. If the traffic is encrypted end-to-end (SSL Pass-through), the BIG-IP cannot use cookie persistence. SSL must be terminated at the BIG-IP (Option B is false).

* Security: By default, BIG-IP cookies are encoded, not clear text. Modern versions allow for easy encryption of these cookies to prevent information leakage (Option C is false).

* Memory vs. Disk: The default behavior is "session-based" (In-memory). A cookie is only written to the client's file system (disk) if an Expiration is configured in the persistence profile (Option D is false).

NEW QUESTION # 38

What should a BIG-IP Administrator configure to minimize impact during a failover?

- A. External monitors
- B. OneConnect profile
- **C. MAC masquerading**
- D. Clone pool

Answer: C

Explanation:

In a High Availability (HA) environment, a failover event occurs when the active BIG-IP system stops processing traffic and the standby unit takes over. This transition can cause a brief disruption in network traffic because the surrounding switches need to update their ARP tables to associate the Virtual IP (VIP) and floating Self-IPs with the MAC address of the new active unit.

* **MAC Masquerade Functionality:** To minimize this impact, an administrator can configure MAC masquerading. This feature allows the administrator to assign a unique, "shared" MAC address to a traffic group.

* **Seamless Transition:** When a failover occurs, the new active unit begins using this shared MAC address immediately. Since the MAC address for the traffic group remains the same regardless of which physical device is active, the upstream switches do not need to update their ARP tables or learn a new MAC-to-port mapping.

* **Packet Loss Reduction:** By maintaining a constant MAC address, MAC masquerading significantly reduces the time it takes for traffic to resume, effectively eliminating the "gratuitous ARP" dependency and minimizing packet loss during the handover.

Why other options are incorrect:

* **External monitors:** These are used for advanced health checking of pool members and do not directly impact the speed or smoothness of a device-level failover.

* **OneConnect profile:** This is a performance optimization tool that aggregates multiple client-side requests into a single server-side TCP connection; it is not a failover mechanism.

* **Clone pool:** This is used to replicate traffic for IDS or monitoring purposes and has no role in high availability or failover optimization.

NEW QUESTION # 39

A BIG-IP Administrator has a cluster of devices.

What should the administrator do after creating a new Virtual Server on device 1? (Choose one answer)

- A. Create a new virtual server on device 2
- B. Synchronize the settings of the group to device 1
- **C. Synchronize the settings of device 1 to the group**
- D. Create a new cluster on device 1

Answer: C

NEW QUESTION # 40

What should a BIG-IP Administrator configure to minimize impact during a failover? (Choose one answer)

- A. External monitors
- B. OneConnect profile
- **C. MAC masquerading**
- D. Clone pool

Answer: C

Explanation:

Comprehensive and Detailed Explanation From BIG-IP Administration Data Plane Concepts documents:

In BIG-IP high availability (HA) deployments, one of the primary causes of traffic disruption during failover is Layer 2 and Layer 3 relearning by upstream network devices (switches and routers). When traffic groups move from the Active device to the Standby device, the network must quickly associate the IP addresses with the new device.

Why MAC Masquerading Minimizes Failover Impact:

MAC masquerading allows a traffic group to use a floating, shared MAC address for its Self-IPs. This MAC address moves with the traffic group during failover.

Key benefits:

The MAC address does not change when failover occurs

Upstream switches do not need to relearn ARP entries

Traffic resumes almost immediately after failover

Dramatically reduces packet loss and connection interruption

From BIG-IP Administration Data Plane Concepts:

MAC masquerade is specifically designed to provide fast failover

It is a best practice for HA pairs, especially in environments sensitive to latency and connection loss Why the Other Options Are Incorrect:

A. External monitors

Used to check the availability of external resources

Do not reduce network convergence or failover disruption

B . Clone pool

Used for traffic mirroring or security analysis

Has no impact on failover behavior

C . OneConnect profile

Optimizes server-side TCP connections

Does not address ARP or MAC relearning during failover

Key HA Concept Reinforced:

To minimize failover impact on live traffic, BIG-IP administrators should ensure Layer 2 continuity. MAC masquerading is the primary mechanism that enables near-instant failover by preventing ARP and MAC table reconvergence delays.

NEW QUESTION # 41

A development team needs to apply a software fix and troubleshoot one of its servers. The BIG-IP Administrator needs to immediately remove all connections from the BIG-IP system to the back-end server.

The BIG-IP Administrator checks the Virtual Server configuration and finds that a persistence profile is assigned to it. What should the BIG-IP Administrator do to meet this requirement?

- A. Set the pool member to a Disabled state and manually delete existing connections through the command line
- B. Set the pool member to a Forced Offline state
- C. Set the pool member to a Forced Offline state and manually delete existing connections through the command line
- D. Set the pool member to a Disabled state

Answer: C

Explanation:

Managing the lifecycle of a pool member requires understanding the difference between "Disabled" and "Forced Offline" states, especially when persistence is involved.

* Disabled (User-Disabled): This state allows existing connections and persistent sessions to continue until they naturally time out or are closed by the client/server. It only prevents new sessions from being established.

* Forced Offline: This state is more restrictive; it allows existing connections to complete but rejects all new connections, including those with existing persistence records.

* Immediate Removal: Neither "Disabled" nor "Forced Offline" will instantly kill currently active, established TCP connections. To meet the requirement of "immediately" removing all connections, the administrator must first set the member to Forced Offline (to prevent persistence from bringing in new traffic) and then use the command line (e.g., tmsh delete sys connection ss-server-addr [IP]) to clear the current connection table entries.

NEW QUESTION # 42

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