

Free PDF Quiz F5 - F5CAB2 - BIG-IP Administration Data Plane Concepts (F5CAB2)–High Pass-Rate Exams Torrent



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F5 F5CAB2 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<ul style="list-style-type: none">• Explain the relationship between interfaces, trunks, VLANs, self-IPs, routes and
Topic 3	<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 4	<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.

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F5 BIG-IP Administration Data Plane Concepts (F5CAB2) Sample Questions (Q61-Q66):

NEW QUESTION # 61

Which two statements describe differences between the active and standby systems? (Choose two.)

- A. Floating selfIP addresses are hosted only by the active system
- B. Failover triggers only cause changes on the active system
- C. Virtual server addresses are hosted only by the active system
- D. Configuration changes can only be made on the active system
- E. Monitors are performed only by the active system

Answer: A,C

NEW QUESTION # 62

A BIG-IP Administrator is conducting maintenance on one BIG-IP appliance in an HA Pair. Why should the BIG-IP Administrator put the appliance into FORCED-OFFLINE state?

- A. To allow new connections to Virtual Servers and ensure the appliance becomes active
- B. To preserve existing connections to Virtual Servers and reduce the CPU load
- C. To terminate connections to the management IP and decrease persistent connections
- D. To terminate existing connections to Virtual Servers and prevent the appliance from becoming active

Answer: D

Explanation:

The Forced Offline state is a critical administrative tool used during maintenance to ensure a device remains in a non-functional state relative to the traffic group.

* Preventing Active Status: When a device is in "Forced Offline," it is effectively disqualified from the HA election process. Even if the other peer fails, a device in Forced Offline will not become active. This is vital during maintenance (like firmware upgrades or hardware replacement) to prevent an unstable or half-configured device from attempting to process traffic.

* Traffic Termination: Placing a device in Forced Offline triggers the system to stop accepting new connections and, depending on the configuration, can facilitate the termination of existing connections so that the administrator can perform work without the data plane actively utilizing system resources.

* Persistence Handling: Unlike the "Disabled" state, Forced Offline ignores persistence records, ensuring that no new traffic is steered to the device via session affinity.

NEW QUESTION # 63

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

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

Answer: A

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

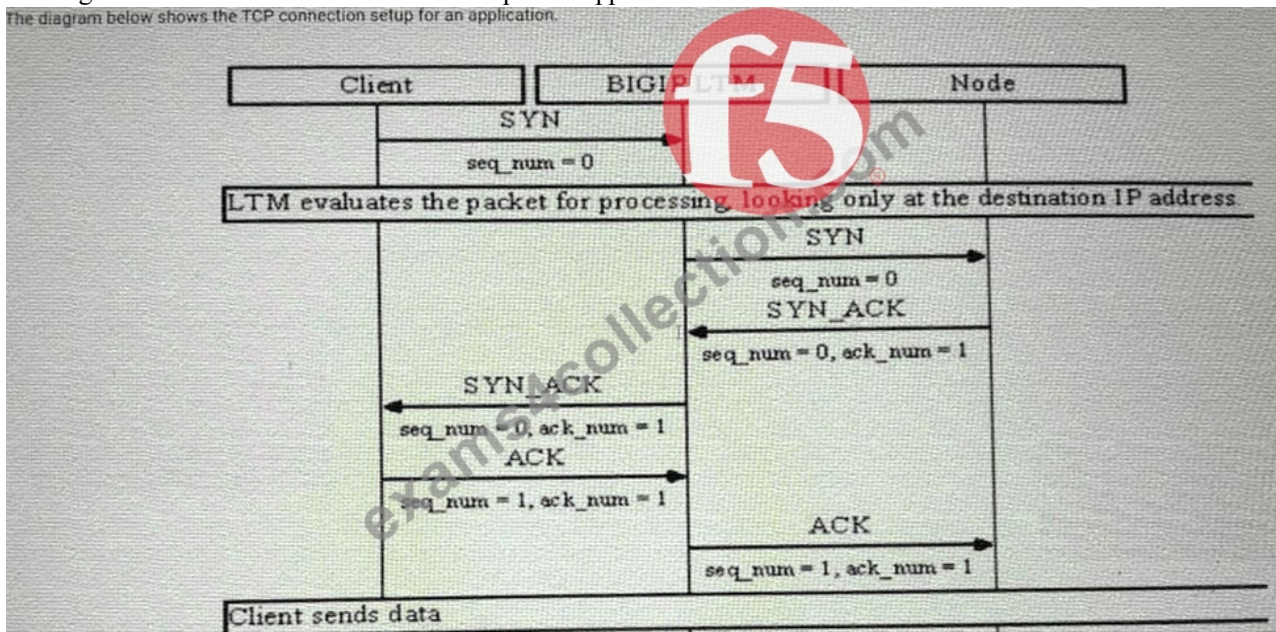
Key HA Concept Reinforced:

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 # 64

The diagram below shows the TCP connection setup for an application.

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Which of the following virtual server types applies? (Choose one answer)

- A. Standard virtual server
- B. Stateless virtual server
- C. Forwarding IP virtual server

Answer: C

Explanation:

The diagram illustrates a specific TCP handshake sequence where the BIG-IP system acts as a transparent forwarder rather than a full proxy. The key indicators that identify this as a Forwarding (IP) virtual server are as follows:

* Initial Packet Processing: The diagram explicitly states that the LTM evaluates the packet looking only at the destination IP address. This is the fundamental characteristic of a Forwarding IP virtual server, which uses the system's routing table to make forwarding decisions instead of load balancing to a pool of members.

* Handshake Sequence: Unlike a Standard virtual server, which completes the three-way handshake with the client (SYN, SYN-ACK, ACK) before initiating a separate connection to the server, the Forwarding IP virtual server passes the client's

original SYN packet directly to the destination node.

* **Response Timing:** The BIG-IP system waits for the SYN-ACK from the destination node before it sends a SYN-ACK back to the client. It essentially "passes through" the handshake signals while still maintaining a state entry in the connection table to track the flow.

* **Packet-by-Packet Logic:** While it tracks the state, it does not perform address translation (unless SNAT is specifically configured) or deep packet inspection like a full proxy would.

Why other options are incorrect:

* **Standard virtual server:** A Standard virtual server is a "full proxy." It would finish the handshake with the client first and only then open a second, independent TCP connection to the backend server.

* **Stateless virtual server:** A stateless virtual server does not track connections in the connection table.

The diagram shows the system meticulously passing sequence numbers (\$seq_num\$) and acknowledgment numbers (\$ack_num\$) between the two sides, which requires stateful tracking of the TCP flow.

NEW QUESTION # 65

An application is configured so that the same pool member must be used for an entire session, as well as for HTTP and FTP traffic. A user reports that a session has terminated, and the user must restart the session. The BIG-IP Administrator determines that the active BIG-IP device failed over to the standby BIG-IP device.

Which configuration settings should the BIG-IP Administrator verify to ensure proper behavior when BIG-IP failover occurs?

- A. syn-cookie insertion threshold and connection low-water mark
- B. Stateful failover and network failover detection
- **C. Persistence mirroring and Match Across Services**
- D. Cookie persistence and session timeout

Answer: C

Explanation:

In this scenario, two specific High Availability and Persistence requirements must be met to ensure session continuity during a failover.

* **Persistence Mirroring:** By default, persistence records (which map a client to a specific server) exist only on the memory of the active BIG-IP. If a failover occurs, the standby unit has no knowledge of these sessions and will re-load-balance the client, likely to a different server. Enabling Persistence Mirroring ensures that the persistence table is synchronized in real-time to the standby peer.

* **Match Across Services:** The requirement specifies that the session must persist across both HTTP and FTP. These are different Virtual Servers (and likely different ports). The Match Across Services setting in the persistence profile allows the BIG-IP to use the same persistence record for any Virtual Server that shares the same IP address and pool, regardless of the service port.

NEW QUESTION # 66

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