

# 100% Pass 2026 F5CAB2: Pass-Sure New BIG-IP Administration Data Plane Concepts (F5CAB2) Exam Guide



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## Pass Guaranteed Quiz F5 - Accurate F5CAB2 - New BIG-IP Administration Data Plane Concepts (F5CAB2) Exam Guide

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### F5 F5CAB2 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>Define ADC application objects: This domain covers ADC basics including application objects, load balancing methods, server selection, and key ADC features and benefits.</li> </ul>

Topic 2	<ul style="list-style-type: none"> <li>• their status</li> <li>• 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.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• 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</li> <li>• rate limits.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• Explain the relationship between interfaces, trunks, VLANs, self-IPs, routes and</li> </ul>

## F5 BIG-IP Administration Data Plane Concepts (F5CAB2) Sample Questions (Q27-Q32):

### NEW QUESTION # 27

A BIG-IP Administrator wants to add a new Self IP to the BIG-IP device. Which item should be assigned to the new Self IP being configured?

- A. Interface
- **B. VLAN**
- C. Route
- D. Trunk

**Answer: B**

Explanation:

A Self IP is an IP address on the BIG-IP system that you associate with a specific VLAN.

\* VLAN Association: A Self IP cannot exist independently; it must be bound to a VLAN to define which network segment the BIG-IP can communicate with.

\* Layer 2 to Layer 3 Mapping: While a VLAN is associated with physical interfaces or trunks (Layer 2), the Self IP provides the Layer 3 identity for the BIG-IP on that VLAN.

\* Traffic Processing: Self IPs are used by the BIG-IP for health checking backend servers, acting as a default gateway for servers, and for HA heartbeat communication.

### NEW QUESTION # 28

When using the setup utility to configure a redundant pair, you are asked to provide a "Failover Peer IP". Which address is this?

- **A. an address of the other system in a redundant pair configuration**
- B. an address on the current system used to listen for failover messages from the partner BIG-IP
- C. an address of the other system in its management network
- D. an address on the current system used to initiate mirroring and network failover heartbeat messages

**Answer: A**

Explanation:

When establishing a redundant pair, each device must know where to send its health heartbeats and sync data.

\* The Peer IP: The Failover Peer IP is the IP address belonging to the other BIG-IP device in the HA pair.

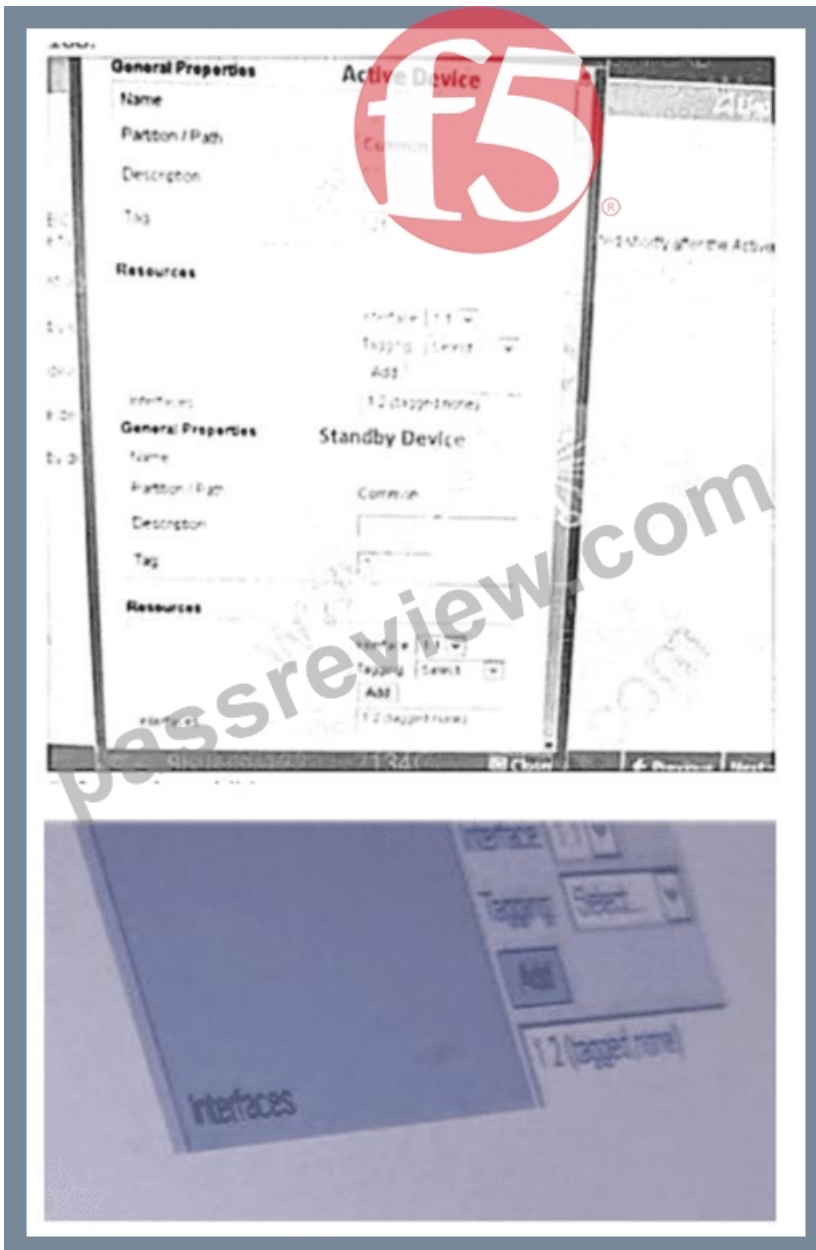
This is typically a Self-IP on a dedicated "HA" or "Internal" VLAN, or the Management IP.

\* Purpose: It identifies the destination for the "Heartbeat" (the "Are you alive?" check).

\* Setup Context: During the initial setup, you tell Device A to look for Device B at its "Failover Peer IP," and you tell Device B to look for Device A at its respective "Failover Peer IP."

### NEW QUESTION # 29

Refer to the exhibit.



During a planned upgrade to a BIG-IP HA pair running Active/Standby, an outage to application traffic is reported shortly after the Active unit is forced to Standby. Reverting the failover resolves the outage. What should the BIG-IP Administrator modify to avoid an outage during the next failover event? (Choose one answer)

- A. The interface on the Active device to 1.1
- **B. The Interface on the Standby device to 1.1**
- C. The Tag value on the Standby device
- D. The Tag value on the Active device

**Answer: B**

Explanation:

In an Active/Standby BIG-IP design, application availability during failover depends on both units having equivalent data-plane connectivity for the networks that carry application traffic. Specifically:

- \* VLANs are bound to specific interfaces (and optionally VLAN tags).
- \* Floating self IPs / traffic groups move to the new Active device during failover.
- \* For traffic to continue flowing after failover, the new Active device must have the same VLANs available on the correct interfaces that connect to the upstream/downstream networks.

What the symptom tells you:

- \* Traffic works when Device A is Active
- \* Traffic fails when Device B becomes Active
- \* Failback immediately restores traffic

This pattern strongly indicates the Standby unit does not have the VLAN connected the same way (wrong physical interface assignment), so when it becomes Active, it owns the floating addresses but cannot actually pass traffic on the correct network segment.

Why Interface mismatch is the best match:

- \* If the Active unit is already working, its interface mapping is correct.
- \* The fix is to make the Standby unit's VLAN/interface assignment match the Active unit.
- \* That corresponds to changing the Standby device interface to 1.1.

Why the Tag options are less likely here (given the choices and the exhibit intent):

\* Tag issues can also break failover traffic, but the question/options are clearly driving toward the classic HA requirement: consistent VLAN-to-interface mapping on both devices so the data plane remains functional after the traffic group moves.

Conclusion: To avoid an outage on the next failover, the BIG-IP Administrator must ensure the Standby device uses the same interface (1.1) for the relevant VLAN(s) that carry the application traffic, so when it becomes Active it can forward/receive traffic normally.

### NEW QUESTION # 30

An organization needs to deploy an HTTP application on a BIG-IP system. The requirements specify hardware acceleration to enhance performance, while HTTP optimization features are not required.

What type of virtual server and associated protocol profile should be used to meet these requirements? (Choose one answer)

- **A. Type: Performance (Layer 4) Protocol Profile: fastL4**
- B. Type: Standard Protocol Profile: tcp-wan-optimized
- C. Type: Stateless Protocol Profile: fastL4
- D. Type: Performance (HTTP) Protocol Profile: fasthttp

**Answer: A**

Explanation:

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

To select the correct virtual server type, an administrator must balance the need for L7 intelligence versus raw throughput and hardware offloading:

**Performance (Layer 4) Virtual Server:** This type is designed for maximum speed. It uses the fastL4 profile, which allows the BIG-IP system to leverage the ePVA (Embedded Packet Velocity Accelerator) hardware chip. When a Performance (L4) virtual server is used, the system processes packets at the network layer (L4) without looking into the application payload (L7). This fulfills the requirement for hardware acceleration and avoids the overhead of HTTP optimization features, which are not needed in this scenario.

**Performance (HTTP) Virtual Server:** While fast, this type uses the fasthttp profile to provide some L7 awareness and optimization (like header insertion or small-scale multiplexing). Since the requirement specifically states HTTP optimization is not required, the L4 variant is more efficient.

**Standard Virtual Server:** This is a full-proxy type. While it offers the most features (SSL offload, iRules, Compression), it processes traffic primarily in the TMOS software layer (or via high-level hardware assistance), which is "slower" than the pure hardware switching path of the Performance (L4) type.

**Stateless Virtual Server:** This is typically used for specific UDP/ICMP traffic where the system does not need to maintain a connection table. It is not appropriate for standard HTTP (TCP) applications requiring persistent sessions or stateful load balancing. By choosing Performance (Layer 4) with the fastL4 profile, the organization ensures that the traffic is handled by the hardware acceleration chips, providing the lowest latency and highest throughput possible for their HTTP application.

### NEW QUESTION # 31

A BIG-IP Administrator assigns the default HTTP health monitor to a pool that has three members listening on port 80. When the administrator connects to each pool member using the curl utility, two of the members respond with a status of 404 Not Found, while the third responds with 200 OK. What will the pool show for member availability? (Choose one answer)

- A. All members offline
- B. Two members online and one member offline
- **C. Two members offline and one member online**
- D. All members online

**Answer: C**

Explanation:

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

In BIG-IP LTM, pool member availability is determined by health monitors, which continuously test application responsiveness and correctness.

For the default HTTP monitor, the behavior is defined as follows:

BIG-IP sends an HTTP request (by default, GET /)

The monitor expects a response with HTTP status 200 OK

Any HTTP response code other than 200 is considered a monitor failure

A failed monitor causes the associated pool member to be marked offline (down) Applying this to the scenario:

Two pool members return 404 Not Found

A 404 response indicates the requested object is missing

This response does not satisfy the success criteria of the default HTTP monitor BIG-IP marks these two members as offline One

pool member returns 200 OK This matches the expected response code BIG-IP marks this member as online Resulting Pool Status:

2 members: Offline

1 member: Online

Why the Other Options Are Incorrect:

B - Members returning 404 responses cannot be considered healthy

C - At least one member responds with 200 OK, so the entire pool is not offline D - Not all members meet the monitor success criteria Key Data Plane Concept Reinforced:

BIG-IP health monitors validate not just reachability, but application correctness. For HTTP monitors, the response code is critical-404 is treated as a failure, even though the service is reachable.

## NEW QUESTION # 32

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