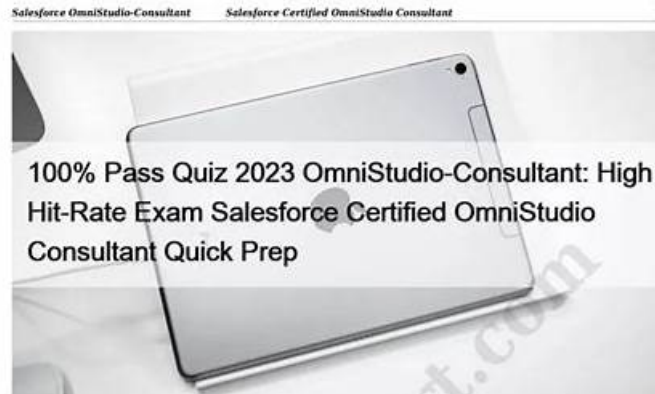# 100% Pass Quiz 2026 F5CAB2: BIG-IP Administration Data Plane Concepts (F5CAB2) High Hit-Rate New Test Sample

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F5 BIG-IP Administration Data Plane Concepts (F5CAB2) Sample Questions (Q11-Q16):

NEW QUESTION # 11

A BIG-IP system receives UDP traffic from a specific source. The administrator wants the traffic to be forwarded, not dropped or rejected. Which virtual server type should be used? (Choose one answer)

- A. Reject
- B. Drop
- C. Standard
- D. Block

Answer: C

Explanation:
BIG-IP virtual server types define how traffic is handled at the data plane when it matches a virtual server's destination address and service port.
According to BIG-IP Administration Data Plane Concepts:
* Standard virtual server
* The default and most commonly used type
* Accepts client connections and forwards traffic to pool members
* Supports both TCP and UDP traffic
* Allows full use of profiles (UDP, FastL4, persistence, etc.) and iRules
* Required when the goal is to process and pass traffic through BIG-IP
* Drop virtual server
* Silently discards matching traffic
* No response is sent to the client
* Reject virtual server
* Actively rejects traffic by sending an error response
* For UDP, BIG-IP may send an ICMP unreachable message
* Block virtual server
* Used to block traffic at the virtual server level
* Traffic is neither forwarded nor processed by pools
In this scenario:
* The administrator explicitly wants the UDP traffic to be forwarded
* Only a Standard virtual server forwards traffic to a pool or next-hop destination Why the Other Options Are Incorrect:
* A. Drop - Traffic is silently discarded
* B. Reject - Traffic is actively rejected
* C. Block - Traffic is blocked and not forwarded
Key Data Plane Concept Reinforced:
When traffic must be accepted and forwarded-regardless of whether it is TCP or UDP-the BIG-IP administrator must use a Standard virtual server, which is the only virtual server type designed for normal application traffic processing.

NEW QUESTION # 12

Refer to the exhibit.

The network team creates a new VLAN on the switches. The BIG-IP Administrator creates a new VLAN and a Self IP on the BIG-IP device, but the servers on the new VLAN are NOT reachable from the BIG-IP device.
Which action should the BIG-IP Administrator take to resolve this issue? (Choose one answer)

- A. Change Auto Last Hop to enabled
- B. Assign a physical interface to the new VLAN
- C. Create a Floating Self IP address
- D. Set Port Lockdown of the Self IP to Allow All

Answer: B

Explanation:

For BIG-IP to send or receive traffic on a VLAN, that VLAN must be bound to a physical interface or a trunk. Creating a VLAN object and a Self IP alone is not sufficient to establish data-plane connectivity.

From the exhibit:

* The VLAN (vlan_1033) exists and has a tag defined.
* A Self IP is configured and associated with the VLAN.
* However, traffic cannot reach servers on that VLAN.

This indicates a Layer 2 connectivity issue, not a Layer 3 or HA issue.

Why assigning a physical interface fixes the problem:

* BIG-IP VLANs do not carry traffic unless they are explicitly attached to:
* A physical interface (e.g., 1.1), or
* A trunk
* Without an interface assignment, the VLAN is effectively isolated and cannot transmit or receive frames, making servers unreachable regardless of correct IP addressing.

Why the other options are incorrect:

* A. Set Port Lockdown to Allow AllPort Lockdown controls which services can be accessed on the Self IP (management-plane access), not whether BIG-IP can reach servers on that VLAN.
* B. Change Auto Last Hop to enabledAuto Last Hop affects return traffic routing for asymmetric paths. It does not fix missing Layer 2 connectivity.
* D. Create a Floating Self IP addressFloating Self IPs are used for HA failover. They do not resolve reachability issues on a single device when the VLAN itself is not connected to an interface.

Conclusion:

The servers are unreachable because the VLAN has no physical interface assigned. To restore connectivity, the BIG-IP Administrator must assign a physical interface (or trunk) to the VLAN, enabling Layer 2 traffic flow.

NEW QUESTION # 13
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. Synchronize the settings of device 1 to the group
- B. Synchronize the settings of the group to device 1
- C. Create a new cluster on device 1
- D. Create a new virtual server on device 2

Answer: A

Explanation:

In a BIG-IP device service cluster, configuration objects such as virtual servers, pools, profiles, and iRules are maintained through configuration synchronization (config-sync).

Key BIG-IP concepts involved:

* Device Service Cluster (DSC)A cluster is a group of BIG-IP devices that share configuration data. One device is typically used to make changes, which are then synchronized to the rest of the group.
* Config-Sync Direction Matters
* Changes are made on a local device
* Those changes must be pushed to the group
* The correct operation is "Sync Device to Group"

Why C is correct:

* The virtual server was created only on device 1
* Other devices in the cluster do not yet have this object
* To propagate the new virtual server to all cluster members, the administrator must synchronize device
1 to the group

Why the other options are incorrect:

* A. Synchronize the settings of the group to device 1This would overwrite device 1's configuration with the group's existing configuration and may remove the newly created virtual server.
* B. Create a new cluster on device 1The cluster already exists. Creating a new cluster is unnecessary and disruptive.
* D. Create a new virtual server on device 2This defeats the purpose of centralized configuration management and risks configuration drift.

Conclusion:

After creating a new virtual server on a BIG-IP device that is part of a cluster, the administrator must synchronize the configuration from that device to the group so all devices share the same ADC application objects.

NEW QUESTION # 14

A BIG-IP Administrator is informed that traffic on interface 1.1 is expected to increase beyond the maximum bandwidth capacity of the link. There is a single VLAN on the interface.
What should the BIG-IP Administrator do to increase the total available bandwidth? (Choose one answer)

- A. Assign two interfaces to the VLAN
- B. Create a trunk object with two interfaces
- C. Increase the MTU on the VLAN using interface 1.1
- D. Set the media speed of interface 1.1 manually

Answer: B

Explanation:
On BIG-IP systems, physical interface bandwidth is fixed by the link speed (for example, 1GbE or 10GbE).
When traffic demand exceeds the capacity of a single interface, BIG-IP provides link aggregation through trunks.
Key concepts involved:
* InterfacesA single physical interface (such as 1.1) is limited to its negotiated link speed. You cannot exceed this capacity through software tuning alone.
* Trunks (Link Aggregation)A trunk combines multiple physical interfaces into a single logical interface.
* BIG-IP supports LACP and static trunks.
* Traffic is distributed across member interfaces, increasing aggregate bandwidth and providing redundancy.
* VLANs are then assigned to the trunk, not directly to individual interfaces.
Why option B is correct:
* Creating a trunk with two interfaces allows BIG-IP to use both physical links simultaneously.
* This increases total available bandwidth (for example, two 10Gb interfaces # up to 20Gb aggregate capacity).
* This is the documented and supported method for scaling bandwidth on BIG-IP.
Why the other options are incorrect:
* A. Increase the MTUMTU changes affect packet size and efficiency, not total bandwidth capacity.
* C. Assign two interfaces to the VLANBIG-IP does not support assigning a VLAN to multiple interfaces directly. VLANs must be associated with one interface or one trunk.
* D. Set the media speed manuallyMedia speed can only be set up to the physical capability of the interface and connected switch port. It cannot exceed the hardware limit.
Conclusion:
To increase total available bandwidth on BIG-IP when a single interface is insufficient, the administrator must create a trunk object with multiple interfaces and move the VLAN onto the trunk. This aligns directly with BIG-IP data plane design and best practices.

NEW QUESTION # 15

The network architecture for a BIG-IP consists of an external VLAN and an internal VLAN with two interfaces connected to the upstream switch. The design requires fault tolerance in the case that one of the interfaces is down. Which deployment architecture meets these requirements? (Choose one answer)

- A. One network trunk with both VLANs and LACP enabled, and both VLANs configured as untagged
- B. Two network trunks each with one VLAN and LACP disabled, and one VLAN configured as tagged and one VLAN configured as untagged
- C. Two network trunks each with one VLAN and LACP enabled, and both VLANs configured as tagged
- D. One network trunk with both VLANs and LACP enabled, and both VLANs configured as tagged

Answer: D

Explanation:
Comprehensive and Detailed Explanation From BIG-IP Administration Data Plane Concepts documents:
To meet the requirement of fault tolerance when one interface goes down, BIG-IP must use link aggregation so that loss of a single physical link does not isolate the VLAN(s).
How the objects relate (data plane view)
Interfaces = physical links.
Trunk (LACP) = bundles multiple interfaces into one logical link that provides redundancy (and possibly bandwidth aggregation).

VLANs are assigned to interfaces or trunks. If you need multiple VLANs on the same trunk, they must use 802.1Q tagging (because you can only have one untagged VLAN per interface/trunk).

Self IPs are then placed on the VLANs to provide BIG-IP presence and routing/ARP functions, but self IPs are not what provides link resiliency-the trunk does.

Why Option D is correct

You have two physical interfaces and you want resiliency if one fails → put both interfaces into one trunk with LACP enabled.

You need both external and internal VLANs on those same two links → both VLANs should be configured as tagged on that trunk, so they can coexist on the same aggregated link.

If either physical interface fails, the trunk remains up via the remaining interface, keeping both VLANs operational.

Why the other options are incorrect

A: Two VLANs cannot both be untagged on the same trunk/interface. Only one untagged VLAN is possible; additional VLANs must be tagged.

B: Two trunks "each with one VLAN" would typically mean splitting VLANs across separate trunks. With only two interfaces total, that becomes one interface per trunk-if one interface goes down, the VLAN on that interface is down (no redundancy for that VLAN).

C: Same redundancy problem as B, and disabling LACP removes the negotiated aggregation behavior expected when the switch engineer specifically requested LACP.

NEW QUESTION # 16

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