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## F5 BIG-IP Administration Data Plane Concepts (F5CAB2) Sample Questions (Q10-Q15):

NEW QUESTION # 10

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 device 1 to the group**
- C. Create a new cluster on device 1
- D. Synchronize the settings of the group to device 1

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation (BIG-IP Administration - Data Plane Concepts):

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 1

This 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 1

The cluster already exists. Creating a new cluster is unnecessary and disruptive.

D . Create a new virtual server on device 2

This 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 # 11

Active connections to pool members are unevenly distributed. The load balancing method is Least Connections (member). Priority Group Activation is disabled.

What is a potential cause of the uneven distribution? (Choose one answer)

- A. Priority Group Activation is disabled
- **B. A persistence profile is applied**
- C. Incorrect load balancing method
- D. SSL Profile Server is applied

**Answer: B**

Explanation:

With Least Connections (member), BIG-IP attempts to send new connections to the pool member with the fewest current connections. In a perfectly "stateless" scenario (no affinity), this often trends toward a fairly even distribution over time.

However, persistence overrides load balancing:

\* When a persistence profile is applied, BIG-IP will continue sending a client (or client group) to the same pool member based on the persistence record (cookie / source address / SSL session ID, etc.).

\* This means even if another pool member has fewer connections, BIG-IP may still select the persisted member to honor session affinity.

\* The result can be uneven active connection counts, even though the configured load balancing method is Least Connections.

Why the other options are not the best cause:

- \* A. Priority Group Activation is disabled Priority Group Activation only affects selection when priority groups are configured; disabling it does not inherently create uneven distribution under Least Connections.
- \* B. SSL Profile Server is applied A server-side SSL profile affects encryption to pool members, but it does not by itself cause skewed selection across pool members. (Skew could happen indirectly if members have different performance/latency, but that's not the primary, expected exam answer.)
- \* D. Incorrect load balancing method Least Connections is a valid method and does not itself explain unevenness unless something is overriding it (like persistence) or pool members are not all eligible.

Conclusion:

A persistence profile is the most common and expected reason that active connections become unevenly distributed, because persistence takes precedence over the Least Connections load-balancing decision.

### NEW QUESTION # 12

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

**Answer: D**

Explanation:

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

In BIG-IP LTM, health monitors are used to determine the availability of pool members and directly influence traffic flow decisions in the data plane.

Key characteristics of the default HTTP monitor according to BIG-IP Administration Data Plane Concepts:

Sends an HTTP request (typically GET /)

Expects an HTTP response code of 200 OK

Any response other than 200 is treated as a monitor failure

A failed monitor causes the pool member to be marked offline (down)

In this scenario:

Two pool members return 404 Not Found

A 404 response indicates that the requested object was not found

This does not meet the success criteria of the default HTTP monitor

These two members are therefore marked offline

One pool member returns 200 OK

This matches the expected response

The member is marked online

Resulting Pool Member Availability:

2 members: Offline

1 member: Online

Why the Other Options Are Incorrect:

B - 404 responses are not considered healthy by the default HTTP monitor C - At least one member responds with the expected

200 OK D - Members returning 404 responses fail the monitor and cannot be marked online Key Data Plane Concept Reinforced:

BIG-IP health monitors make binary availability decisions based strictly on configured success criteria. For HTTP monitors, response codes matter-404 is a failure, even if the service is technically reachable.

### NEW QUESTION # 13

A BIG-IP system receives a client connection destined to 1.0.0.10:8080. Multiple virtual servers are configured on the system. Which virtual server will process the connection? (Choose one answer)

- A. A forwarding virtual server configured with 0.0.0.0:any
- B. A virtual server configured with 0.0.0.0:8080
- C. A forwarding virtual server configured with 1.0.0.10:any (port 0)
- **D. A virtual server configured with destination 1.0.0.10:8080 and is available (green)**

**Answer: D**

Explanation:

BIG-IP uses a virtual server matching and precedence algorithm to determine which virtual server processes an incoming connection. This decision is made entirely in the data plane and is based on how specifically a virtual server matches the destination IP address and port.

BIG-IP Virtual Server Selection Rules (Simplified):

When multiple virtual servers could match a packet, BIG-IP selects the most specific match, using the following precedence:

- \* Exact IP address and exact port
- \* Exact IP address with wildcard port (port 0 / any)
- \* Wildcard IP address with exact port
- \* Wildcard IP address and wildcard port

Applying the Rules to This Scenario:

Incoming traffic destination: 1.0.0.10:8080

- \* Option C: 1.0.0.10:8080
- \* Exact IP match
- \* Exact port match
- \* Highest possible specificity
- \* If the virtual server is available (green), it wins the match
- \* Option B: 1.0.0.10:any
- \* Exact IP match, but wildcard port
- \* Lower priority than an exact IP + exact port match
- \* Option D: 0.0.0.0:8080
- \* Wildcard IP, exact port
- \* Lower priority than an exact IP match
- \* Option A: 0.0.0.0:any
- \* Wildcard IP and wildcard port
- \* Lowest priority, used only if no more specific virtual server exists

Final Determination:

Because a virtual server configured with destination 1.0.0.10:8080 exactly matches both the IP address and port of the incoming connection-and is available-it will always be selected to process the traffic.

Key Data Plane Concept Reinforced:

BIG-IP always processes traffic using the most specific matching virtual server. Exact destination IP and port matches take precedence over any wildcard or forwarding virtual server definitions.

## NEW QUESTION # 14

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

**Answer: A**

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 # 15

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