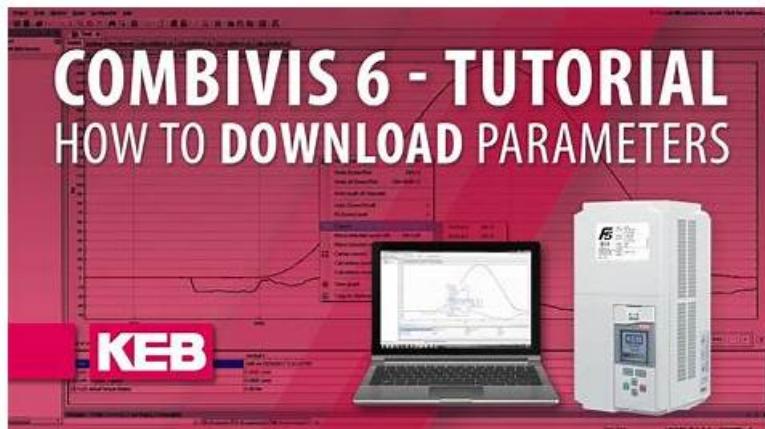


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F5 BIG-IP Administration Data Plane Concepts (F5CAB2) Sample Questions (Q10-Q15):

NEW QUESTION # 10

A standard virtual server has been associated with a pool with multiple members. Assuming all other settings are left at their defaults, which statement is always true concerning traffic processed by the virtual server?

- A. The client IP address is unchanged between the client side connection and the serverside connection.
- B. The TCP ports used in the client side connection are the same as the TCP ports serverside connection.
- C. The IP addresses used in the clientside connection are the same as the IP addresses used in the serverside connection.
- D. The server IP address is unchanged between the client side connection and the serverside connection.

Answer: A

NEW QUESTION # 11

The BIG-IP Administrator wants to provide quick failover between the F5 LTM devices that are configured as an HA pair with a single SelfIP using the MAC Masquerade feature. The administrator configures MAC masquerade for traffic-group-1 using the following command:

'tmsh modify /cm traffic-group traffic-group-1 mac 02:12:34:56:00:00'

However, the Network Operations team identifies an issue with using the same MAC address across multiple VLANs. As a result,

the administrator enables Per-VLAN MAC Masquerade to ensure a unique MAC address per VLAN by running:

'tmsh modify /sys db tm.macmasqaddr_per_vlan value true'

What would be the resulting MAC address on a tagged VLAN with ID 1501? (Choose one answer)

- A. 02:12:34:56:01:15
- **B. 02:12:34:56:05:dd**
- C. 02:12:34:56:dd:05
- D. 02:12:34:56:15:01

Answer: B

Explanation:

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

In BIG-IP high availability (HA) configurations, MAC Masquerade is used to speed up failover by allowing traffic-group-associated Self IPs to retain the same MAC address when moving between devices. This prevents upstream switches and routers from having to relearn ARP entries during a failover event, resulting in near-instant traffic recovery.

By default, MAC masquerade applies one MAC address per traffic group, regardless of how many VLANs the traffic group spans. This can create problems in some network designs because the same MAC address appearing on multiple VLANs may violate network policies or confuse switching infrastructure.

To address this, BIG-IP provides Per-VLAN MAC Masquerade, enabled by the database variable:

'tm.macmasqaddr_per_vlan = true'

When this feature is enabled:

BIG-IP derives a unique MAC address per VLAN

The base MAC address configured on the traffic group remains the first four octets. The last two octets are replaced with the VLAN ID expressed in hexadecimal. The VLAN ID is encoded in network byte order (high byte first, low byte second).

VLAN ID Conversion:

VLAN ID: 1501 (decimal)

Convert to hexadecimal:

$1501_{10} = 0x05DD$

High byte: 05

Low byte: DD

Resulting MAC Address:

Base MAC: '02:12:34:56:00:00'

Per-VLAN substitution → last two bytes = '05:DD'

Final MAC address:

'02:12:34:56:05:dd'

Why the Other Options Are Incorrect:

A (01:15) - Incorrect hexadecimal conversion of 1501

B (dd:05) - Byte order reversed (little-endian, not used by BIG-IP)

D (15:01) - Uses decimal values instead of hexadecimal

Key BIG-IP HA Concept Reinforced:

Per-VLAN MAC Masquerade ensures Layer 2 uniqueness per VLAN while preserving the fast failover benefits of traffic groups, making it the recommended best practice in multi-VLAN HA deployments.

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

Answer: C

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

To increase the available bandwidth of an existing trunk, the BIG-IP Administrator plans to add additional interfaces. Which command should the BIG-IP Administrator run from within the bash shell? (Choose one answer)

- A. tmsh create /sys trunk trunk_A interfaces add {1.3 1.4}
- B. tmsh modify /sys trunk trunk_A interfaces add {1.3 1.4}
- C. tmsh modify /net trunk trunk_A interfaces add {1.3 1.4}
- D. tmsh create /net trunk trunk_A interfaces add {1.3 1.4}

Answer: C

Explanation:

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

In BIG-IP, a trunk is a Layer 2 network object used to aggregate multiple physical interfaces into a single logical link. This aggregation provides increased bandwidth and link resiliency, commonly in conjunction with LACP.

Key concepts that apply here:

Trunks are managed under the /net trunk tmsh hierarchy

Physical interfaces are added or removed using the modify command

The create command is used only when defining a brand-new trunk, not when updating an existing one. Because the trunk already exists and the goal is to add interfaces, the correct operation is:

tmsh modify /net trunk trunk_A interfaces add {1.3 1.4}

This command:

Modifies the existing trunk named trunk_A

Adds interfaces 1.3 and 1.4 to the trunk

Immediately increases available bandwidth and redundancy

Why the Other Options Are Incorrect

B uses the /sys hierarchy, which is not used for trunks

C attempts to create a trunk that already exists

D uses an incorrect hierarchy and an incorrect operation

NEW QUESTION # 14

What is the result when a BIG-IP Administrator manually disables a pool member? (Choose one answer)

- A. The disabled pool member stops processing persistent connections.
- B. All pool members stop accepting new connections.
- C. All pool members continue to process persistent connections.

- D. The disabled pool member stops processing existing connections.

Answer: A

Explanation:

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

In BIG-IP LTM, a pool member state directly affects how traffic is handled at the data plane level. When a pool member is manually disabled, BIG-IP changes the member's availability state to disabled, which has specific and predictable traffic-handling consequences.

According to BIG-IP Administration Data Plane Concepts:

A disabled pool member:

Does not accept new connections

Continues to process existing non-persistent connections until they naturally close Is removed from load-balancing decisions, including persistence lookups Most importantly for this question:

Persistent connections

(such as those created using source-address persistence, cookie persistence, or SSL persistence) are not honored for a disabled pool member BIG-IP will not send new persistent traffic to a disabled member, even if persistence records exist Therefore, when a pool member is manually disabled, it stops processing persistent connections, while allowing existing non-persistent flows to drain gracefully.

Why the Other Options Are Incorrect:

B - Persistent connections are not honored for a disabled pool member

C - Existing connections are not immediately terminated when a pool member is disabled D - Only the disabled pool member stops accepting new connections, not all pool members Key Data Plane Concept Reinforced:

Manually disabling a pool member is a graceful administrative action that prevents new and persistent traffic from reaching the member while allowing existing connections to complete, which is critical for maintenance and troubleshooting scenarios.

NEW QUESTION # 15

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