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F5 BIG-IP Administration Data Plane Concepts (F5CAB2) Sample Questions (Q28-Q33):

NEW QUESTION # 28

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 for this quick failover and runs this command: `tmsh modify /cm traffic-group traffic-group-1 mac 02:12:34:56:00:00` However, the Network Operations team has identified an issue with the use of the same MAC address being used within different VLANs. As a result, the administrator decides to implement the Per-VLAN Mac Masquerade in order to have a unique MAC address on each VLAN: `tmsh modify /sys db tm.macmasqaddr_per_vlan value true`. What would be the resulting MAC address on a tagged VLAN of 1501? (Choose one answer)

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

Answer: D

Explanation:

According to F5 BIG-IP documentation regarding High Availability and MAC Masquerade behavior, the system allows for more granular control over Layer 2 addresses during failover events.

* Standard MAC Masquerade: By default, when a traffic group is assigned a MAC masquerade address (like 02:12:34:56:00:00), the BIG-IP system uses that exact MAC address for all traffic associated with that traffic group across all VLANs. This ensures that upstream switches do not need to relearn ARP entries for the Virtual IP, but it can cause issues in environments where multiple VLANs share the same physical infrastructure or monitoring tools that flag identical MACs across segments.

* Per-VLAN MAC Masquerade: When the system database variable `tm.macmasqaddr_per_vlan` is set to true, the BIG-IP system calculates a unique MAC address for each VLAN. It does this by taking the base MAC masquerade address configured in the traffic group and adding the VLAN ID (tag) to it.

* Calculation Logic:

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

* VLAN ID: 1501

* To find the suffix, the VLAN ID is converted from decimal to hexadecimal:

* \$1501\$ in decimal = 05DD in hex.

* The system then applies this offset to the last two octets of the base MAC address.

* 00:00 + 05:DD = 05:DD.

* Result: The final MAC address for VLAN 1501 becomes 02:12:34:56:05:dd.

This ensures that every VLAN has a unique Layer 2 identity while still reaping the benefits of "gratuitous ARP-less" failover provided by MAC masquerading.

NEW QUESTION # 29

When upgrading a BIG-IP redundant pair, what happens when one system has been updated but the other has not?

- A. The older system will issue SNMP traps indicating a communication error with the partner.
- B. This is not possible since both systems are updated simultaneously.
- C. **Syncing should not be performed.**
- D. The first system to be updated will assume the Active role.

Answer: C

NEW QUESTION # 30

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

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

Answer: D

Explanation:

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 # 31

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. SSL Profile Server is applied
- **C. A persistence profile is applied**
- D. Incorrect load balancing method

Answer: C

Explanation:

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

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 # 32

A virtual server is listening at 10.10.1.100:80 and has the following iRule associated with it:

```
when HTTP_REQUEST { if { [HTTP::header UserAgent] contains "MSIE" }
{ pool MSIE_pool }
else { pool Mozilla_pool }
```

If

a user connects to http://10.10.1.100/foo.html and their browser does not specify a UserAgent, which pool will receive the request?

- **A. Mozilla_pool**
- B. MSIE_pool

- C. None. The request will be dropped.
- D. Unknown. The pool cannot be determined from the information provided.

Answer: A

NEW QUESTION # 33

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