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F5 BIG-IP Administration Support and Troubleshooting Sample Questions (Q12-Q17):

NEW QUESTION # 12

Users report that traffic is negatively affected every time a BIG-IP device fails over. The traffic becomes stabilized after a few minutes. What should the BIG-IP Administrator do to reduce the impact of future failovers?

- A. Configure MAC Masquerade
- B. Configure a global SNAT Listener
- C. Enable Failover Multicast Configuration
- D. Set up Failover Method to HA Order

Answer: A

Explanation:

When a virtual server's traffic flow is disrupted only during failover events and takes several minutes to stabilize, the issue is typically related to the ARP cache on upstream network devices⁴⁷. By default, each BIG-IP in an HA pair uses its own unique hardware MAC address for traffic^{48,49}. When a failover occurs, the new active device takes over the floating IP addresses, but the upstream switch may still have the MAC address of the old device cached^{49,49}. Traffic fails until the switch's ARP entry is updated. "MAC Masquerade" is a troubleshooting feature that assigns a shared, virtual MAC address to the floating traffic group. Regardless of which BIG-IP is currently active, it will use this masqueraded MAC address for all traffic related to that group⁵². Because the MAC address seen by the network never changes during a failover, the upstream devices do not need to relearn ARP entries, resulting in an instantaneous transition and eliminating the performance drop reported by users

NEW QUESTION # 13

A BIG-IP Administrator is receiving intermittent reports from users that SSL connections to the BIG-IP device are failing. Upon checking the log files, the administrator notices: SSL transaction (TPS) rate limit reached. Reviewing stats shows a max of 1200 client-side SSL TPS and 800 server-side SSL TPS. What is the minimum SSL license limit capacity required to handle this peak?

- A. 0
- **B. 1**
- C. 2
- D. 3

Answer: B

Explanation:

Troubleshooting SSL connection resets often involves verifying license limits against actual resource utilization. F5 devices use a "Transactions Per Second" (TPS) license to control the amount of SSL processing the device can handle. The log entry SSL transaction (TPS) rate limit reached is a clear indicator that the traffic volume has exceeded the licensed capacity. When determining the necessary license level, it is important to know that F5 primarily licenses and limits the "Client-side" SSL TPS-which represents the encrypted connections between the users and the virtual servers. In this specific scenario, the peak demand reached 1200 client-side transactions per second. Although there were also 800 server-side transactions (re-encryption from the BIG-IP to the pool), these typically do not count against the primary TPS license limit in the same manner. Therefore, to ensure that the virtual server works as expected during peak load, the administrator must upgrade the license to at least 1200 TPS. This troubleshooting process links system log errors to license-enforced resource constraints.

NEW QUESTION # 14

A BIG-IP Administrator needs to determine why only one pool member is showing connections from the virtual server, resulting in uneven load balancing.

What two reasons would cause uneven load balancing? (Choose two answers)

- **A. The pool has a persistence profile configured.**
- B. The virtual server is marked down.
- **C. Monitors have marked down multiple pool members.**
- D. All pool members are marked down.

Answer: A,C

Explanation:

Uneven load balancing on a BIG-IP system typically occurs when traffic is not distributed evenly across all available pool members. One common reason is that monitors have marked down multiple pool members (Option B). When health monitors fail for specific pool members, BIG-IP automatically removes those members from load-balancing decisions. As a result, traffic is sent only to the remaining healthy member, creating the appearance that load balancing is not functioning correctly. This behavior is expected and aligns with BIG-IP's design to ensure traffic is sent only to healthy resources.

Another frequent cause is the presence of a persistence profile on the pool or virtual server (Option C). Persistence (such as source address or cookie persistence) forces subsequent client connections to be sent to the same pool member for session continuity.

While persistence is critical for certain applications, it can override the load-balancing algorithm and cause most or all traffic to be directed to a single pool member, especially during low traffic volumes or testing scenarios.

The other options are incorrect because a virtual server marked down (Option A) would not pass traffic at all, and all pool members marked down (Option D) would result in no connections rather than uneven distribution. This analysis follows standard BIG-IP troubleshooting methodology using pool status, monitor results, and persistence configuration review.

NEW QUESTION # 15

A BIG-IP Administrator makes a configuration change to a Virtual Server on the Standby device of an HA pair. The HA pair is currently configured with Auto-Sync Enabled. What effect will the change have on the HA pair configuration?

- A. The change will be propagated next time a configuration change is made on the Active device.
- B. The change will be undone next time a configuration change is made on the Active device.
- C. The change will be undone when Auto-Sync propagates the config to the HA pair.
- **D. The change will take effect when Auto-Sync propagates the config to the HA pair.**

Answer: D

Explanation:

Understanding High Availability (HA) synchronization behavior is critical for maintaining a stable environment. In a device group where "Auto-Sync" is enabled, the BIG-IP system monitors the management plane for any configuration updates across all members. While best practices often suggest making changes on the "Active" device, TMOS allows changes on any device within the group. When a change is made on the "Standby" device, the system detects a configuration mismatch and, because Auto-Sync is enabled, it automatically pushes those changes to the other devices in the sync group, including the current Active member. To troubleshoot if this is working correctly, the administrator should review the "Sync Status" stats in the Configuration Utility. If the changes do not propagate, it suggests a breakdown in the HA trust relationship or network connectivity issues on the failover VLAN. Proper interpretation of this scenario confirms that the HA functionality is operating correctly, ensuring that both devices have a consistent set of virtual servers and pools, which is vital for seamless failover.

NEW QUESTION # 16

Some users who connect to a busy Virtual Server have connections reset by the BIG-IP system. Pool member resources are NOT a factor in this behavior. What is a possible cause for this behavior?

- **A. The Connection Limit is set too low.**
- B. The server SSL Profile has NOT been reconfigured.
- C. The Rewrite Profile has NOT been configured.
- D. The Connection Rate Limit is set too high

Answer: A

Explanation:

Comprehensive and Detailed Explanation From BIG-IP Administration Support and Troubleshooting documents: When troubleshooting intermittent connection resets on a "busy" Virtual Server, the administrator must examine the configured thresholds⁶². A "Connection Limit" is a hard cap on the number of concurrent connections a Virtual Server or pool member can handle⁶³. If this limit is set too low, the BIG-IP will reset any new connection attempts once the threshold is reached⁶⁴. The key indicator in this scenario is that the problem only affects "some users" and happens when the server is "busy," suggesting that the system is hitting a capacity ceiling rather than suffering from a persistent configuration error⁶⁵. Unlike a missing SSL profile, which would likely cause all connections to fail, or a "Connection Rate Limit," which throttles how fast connections arrive, a "Connection Limit" focuses on the total volume⁶⁶. Identifying this as the cause requires reviewing the Virtual Server's statistics to see if the "Current Connections" count is consistently peaking at the configured limit value.

NEW QUESTION # 17

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