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Reliable F5 F5CAB5 Exam Questions - Reliable F5CAB5 Exam Topics

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F5 BIG-IP Administration Support and Troubleshooting Sample Questions (Q19-Q24):

NEW QUESTION # 19

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

Answer: C

Explanation:

When traffic "stabilizes after a few minutes" following a failover, it points to a network-level performance issue involving ARP cache on upstream routers and switches. Each BIG-IP interface has a unique hardware MAC address. During failover, the Standby device takes over the floating IP address, but the upstream switch still associates that IP with the MAC of the now-offline device. Traffic is lost until the switch learns the new MAC or its ARP entry expires. "MAC Masquerading" solves this by creating a shared, virtual MAC address for the floating traffic group. This virtual MAC is used by whichever device is currently active. Because the MAC address for the virtual server IP never changes from the perspective of the network, the upstream devices do not need to update their ARP tables. This troubleshooting solution eliminates the delay associated with failover, providing a seamless transition and ensuring that application traffic flow is not disrupted when the BIG-IP HA state changes.

NEW QUESTION # 20

Due to a change in application requirements, a BIG-IP Administrator needs to modify the configuration of a Virtual Server to include a Fallback Persistence Profile. Which persistence profile type should the BIG-IP Administrator use for this purpose?

- A. Universal
- B. SSL
- C. Hash
- D. **Source Address Affinity**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From BIG-IP Administration S73 support and Troubleshooting documents: Persistence is critical for ensuring that a client's session remains with the same pool member throughout its duration. If primary persistence (like Cookie Persistence) fails-for instance, because the client has disabled cookies-load balancing will not work as expected, and the session may be broken. A "Fallback Persistence Profile" provides a backup method⁷⁵. The most common and reliable fallback method is "Source Address Affinity"⁷⁶. This method tracks the client's IP address in the BIG-IP's persistence table and ensures that any subsequent requests from that IP are routed to the same pool member, even if the primary persistence token is missing. Troubleshooting session drops often involves checking if a fallback method is configured to handle scenarios where the primary method is unsupported by the client's browser or environment. Without a fallback, the BIG-IP would revert to standard load balancing, potentially sending the client to a different server that lacks their session data.

NEW QUESTION # 21

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

Answer: C

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 traffic⁴⁸⁴⁸. 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 cached⁴⁹⁴⁹. 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 # 22

A gateway_icmp health monitor is configured on a pool. The BIG-IP Administrator is investigating why the pool is reported as down while the server is online. Other pools with servers in the same subnet are correctly monitored.

What can cause this behavior? (Choose one answer)

- A. **The host-based firewall is active on the server.**
- B. The latest patches have not been installed on the server.
- C. The admin user is logged on the server.
- D. The HTTP service is not started on the server.

Answer: A

Explanation:

A gateway_icmp monitor checks basic network reachability by sending ICMP echo requests (pings) to the pool member or its gateway. If the pool is marked DOWN while the server is confirmed to be online, the most likely cause is that ICMP traffic is being

blocked.

A host-based firewall active on the server (Option C) can block ICMP echo requests or replies, preventing BIG-IP from receiving a successful response to the health check. This results in the monitor failing and the pool member being marked down, even though the server and application are otherwise functioning normally. This explanation is consistent with the scenario where other servers in the same subnet work correctly, indicating that routing and BIG-IP configuration are not the issue.

The other options are unrelated to ICMP monitoring. Logged-in users (Option A), missing patches (Option B), and stopped HTTP services (Option D) do not affect a gateway_icmp monitor. BIG-IP troubleshooting best practices recommend verifying ICMP reachability and firewall policies when diagnosing ICMP-based monitor failures.

NEW QUESTION # 23

A BIG-IP Administrator needs to view the CPU utilization of a particular Virtual Server. Which section of the Configuration Utility should the administrator use for this purpose?

- A. Statistics > Module Statistics > Local Traffic > Virtual Addresses
- B. Statistics > Module Statistics > Traffic Summary
- C. Statistics > Analytics > Process CPU Utilization
- D. **Statistics > Module Statistics > Local Traffic > Virtual Servers**

Answer: D

Explanation:

When a BIG-IP system experiences high overall CPU usage, troubleshooting requires identifying which specific application or service is the primary consumer of resources. While the system-wide performance graphs provide a global view, the granular data necessary to isolate a "top talker" is found in the "Local Traffic" statistics. Navigating to Statistics > Module Statistics > Local Traffic > Virtual Servers allows the administrator to see specific metrics for each configured virtual server, including the number of packets processed, current connections, and critical CPU cycles consumed. This is essential for troubleshooting performance issues where an inefficient iRule, high SSL handshake volume, or complex L7 profiles (like Compression or ASM) might be overtaxing the Traffic Management Microkernel (TMM) for one specific application. By reviewing these basic stats, an administrator can determine if a performance bottle-neck is a system-wide hardware issue or if it is isolated to a single virtual server, enabling targeted remediation such as optimizing iRule logic or moving the high-load virtual server to a dedicated device.

NEW QUESTION # 24

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