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F5 BIG-IP Administration Support and Troubleshooting Sample Questions (Q29-Q34):

NEW QUESTION # 29

A BIG-IP device sends out the following SNMP trap: big-ipo.f5.com - bigipExternalLinkChange Link: 1.0 is DOWN. Where in the BIG-IP Configuration utility should the BIG-IP Administrator verify the current status of Link 1.0?

- A. Network > Trunks > Trunk List
- B. Statistics > Performance > System
- C. Network > Interfaces > Interface List
- D. System > Platform

Answer: C

Explanation:

Comprehensive and Detailed Explanation From BIG-IP Administration Support and Troubleshooting documents: Identifying network-level performance issues often starts with investigating hardware-level alerts⁷⁸. In F5 terminology, a "Link" like "1.0" or "1.1" refers to a physical interface on the appliance⁷⁹. When an SNMP trap reports that a link is "DOWN," it indicates a loss of signal or an administrative shutdown of the physical port⁸⁰. To verify this, the administrator must navigate to Network > Interfaces > Interface List⁸¹. This screen provides real-time status, showing whether the interface is "up," "down," or "uninitialized," as well as any media speed or duplex mismatches that could be causing performance degradation⁸². Troubleshooting this is the first step in

resolving "pool member down" or "VLAN failsafe" issues, as a down interface will take down any VLANs associated with it, immediately halting all traffic flow for the services relying on that physical path.

NEW QUESTION # 30

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 > Analytics > Process CPU Utilization
- **B. Statistics > Module Statistics > Local Traffic > Virtual Servers**
- C. S70statistics > Module Statistics > Local Traffic > Virtual Addresses
- D. Statistics > Module Statistics > Traffic Summary

Answer: B

Explanation:

Monitoring granular resource utilization is essential when troubleshooting performance degradation for specific applications. While global system stats show overall hardware health, they do not pinpoint which virtual server is overconsuming resources during traffic spikes. To identify the specific application causing a high CPU load, the administrator should navigate to Statistics > Module Statistics > Local Traffic > Virtual Servers. This section provides detailed metrics for each virtual server, including CPU cycles used for traffic processing and iRule execution. Identifying a "top-talker" or a problematic virtual server allows the administrator to take targeted action, such as optimizing an inefficient iRule, adjusting compression levels, or offloading the virtual server to a different device group. This targeted troubleshooting ensures that one high-demand virtual server does not negatively impact the performance of other services running on the same BIG-IP hardware, maintaining overall system stability and resource availability.

NEW QUESTION # 31

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

Answer: D

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 # 32

A BIG-IP Administrator adds new Pool Members into an existing, highly utilized pool. Soon after, there are reports that the application is failing to load for some users. What pool level setting should the BIG-IP Administrator check?

- A. Allow SNAT
- **B. Slow Ramp Time**
- C. Availability Requirement
- D. Action On Service Down

Answer: B

Explanation:

When troubleshooting a pool that is not working correctly after adding new members, the "Slow Ramp Time" setting is a primary

suspect. In a pool that is already under high load and using a "Least Connections" load balancing method, a newly added server has zero connections. Without a slow ramp time, the BIG-IP will immediately direct a massive flood of new connections to the new server to "balance" it with the others. This "thundering herd" effect can crash a newly initialized application server before it has time to warm up its caches or establish its own database connections. By setting a "Slow Ramp Time" (typically in seconds), the administrator ensures the BIG-IP gradually increases the connection ratio to the new member. This allows the server to stabilize and scale up its performance over time. If users report intermittent failures specifically coinciding with the expansion of a pool, checking this setting is a vital troubleshooting step to maintain pool health during maintenance.

NEW QUESTION # 33

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. Monitors have marked down multiple pool members.
- C. All pool members are marked down.
- D. The virtual server is marked down.

Answer: A,B

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 # 34

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