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F5 BIG-IP Administration Support and Troubleshooting Sample Questions (Q31-Q36):

NEW QUESTION # 31

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 Servers

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

Answer: A

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

Answer: A

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 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?

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- B. Availability Requirement
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Explanation:

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NEW QUESTION # 34

Which two methods should the BIG-IP Administrator use to troubleshoot a pool member that has been marked DOWN by its health monitor? (Choose two answers)

- A. Review the BIG-IP routing table using netstat -rn to show all routes.
- B. Collect a TCPdump packet capture for the DOWN pool member.
- C. Enable monitor logging for the pool member that is DOWN.
- D. Review the pool and pool-member statistics table for error data.

Answer: B,C

Explanation:

When a pool member is marked DOWN, it indicates that the configured health monitor is failing. The most effective troubleshooting approach is to focus on the monitor behavior and the actual traffic between BIG-IP and the pool member.

Enabling monitor logging (Option B) is a recommended first step. Monitor logging provides detailed information about why the health check is failing, such as timeouts, connection refusals, incorrect responses, or unexpected status codes. This directly correlates with BIG-IP troubleshooting best practices and allows administrators to confirm whether the failure is due to application behavior, incorrect monitor configuration, or network reachability.

Collecting a TCPdump packet capture (Option D) is also a highly effective method. A packet capture allows the administrator to verify whether the monitor probes are being sent, whether responses are received, and whether packets are being dropped, reset, or malformed. This is especially valuable when diagnosing firewall issues, SSL problems, or application-level failures.

Reviewing pool statistics (Option C) is useful for general monitoring but does not explain why a health monitor is failing. Reviewing the routing table (Option A) is typically unnecessary unless there is evidence of a broader routing issue affecting multiple destinations.

NEW QUESTION # 35

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

Answer: A

Explanation:

When a pool is not working as expected immediately after adding new members to a busy environment, the "Slow Ramp Time" setting is a critical factor

. In a pool using the "Least Connections" load balancing method, a new member starts with zero active connections⁵⁸⁵⁸. Without a slow ramp time, the BIG-IP will immediately direct a high volume of new traffic to this server to "equalize" it with other members. This sudden surge can overwhelm the server's application stack before it has fully initialized or warmed its caches, leading to failures. By configuring a "Slow Ramp Time," the administrator ensures that the system gradually increases the amount of traffic sent to the new member over a specified duration. The traffic sent is proportional to the time the member has been available relative to the ramp time setting⁶². If the application fails only for users routed to new servers, reviewing this setting helps ensure that new capacity is integrated into the pool without disrupting service performance

NEW QUESTION # 36

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