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F5 F5CAB5 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Identify the reason load balancing is not working as expected: This domain addresses troubleshooting load balancing by analyzing persistence, priority groups, rate limits, health monitor configurations, and availability status.

Topic 2	<ul style="list-style-type: none"> Identify the reason a virtual server is not working as expected: This section covers diagnosing virtual server issues including availability status, profile conflicts and misconfigurations, and incorrect IP addresses or ports.
Topic 3	<ul style="list-style-type: none"> Identify network level performance issues: This section focuses on diagnosing network problems including packet capture needs, interface availability, packet drops, speed and duplex settings, and TCP profile optimization.

F5 BIG-IP Administration Support and Troubleshooting Sample Questions (Q38-Q43):

NEW QUESTION # 38

A BIG-IP Administrator needs to collect HTTP status code and HTTP method for traffic flowing through a virtual server. Which default profile provides this information? (Choose one answer)

- A. Analytics
- B. HTTP
- C. Request Adapt
- D. Statistics

Answer: A

Explanation:

To collect application-layer details such as HTTP status codes (200, 404, 500, etc.) and HTTP methods (GET, POST, PUT, DELETE), the BIG-IP system must use a profile designed for traffic visibility and reporting rather than basic traffic handling. The Analytics profile (Option C) is the correct choice because it is specifically designed to collect, store, and present detailed statistics about HTTP and TCP traffic passing through a virtual server.

When an Analytics profile is attached to a virtual server, BIG-IP can record metrics such as HTTP response codes, request methods, URI paths, latency, throughput, and client-side/server-side performance data. These statistics are then accessible through the BIG-IP GUI under Statistics # Analytics, allowing administrators to validate application behavior and troubleshoot performance or functional issues.

The HTTP profile (Option B) enables HTTP protocol awareness and features like header insertion and compression, but it does not provide historical or statistical reporting of HTTP methods and response codes.

Request Adapt (Option A) is used for ICAP-based content adaptation, not visibility. Statistics (Option D) is not a standalone profile and does not provide HTTP-level insight.

Therefore, the Analytics profile is the only default profile that fulfills this requirement.

NEW QUESTION # 39

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. Allow SNAT
- C. Availability Requirement
- D. Action On Service Down

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 # 40

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

Answer: D

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 # 41

A BIG-IP Administrator observes the following messages in the /var/log/ltm log:

warning tmm[pid]: 011e0002: sweeper_segment_cb_any: Aggressive mode /Common/default-eviction-policy activated (0) (global memory) (345209/690176 pages) warning tmm[pid]: 011e0003: Aggressive mode sweeper /Common/default-eviction-policy (0) (global memory) 1 connections killed warning tmm[pid]: 011e0003: Aggressive mode sweeper /Common/default-eviction-policy (0) (global memory) 1 connections killed warning tmm[pid]: 011e0003: Aggressive mode sweeper /Common/default-eviction-policy (0) (global memory) 1 connections killed What is happening when the BIG-IP Administrator sees the messages displayed above? (Choose two answers)

- A. The global eviction policy is triggered due to swap memory being used too high
- B. The BIG-IP system starts reaping connections; all the connections will be dropped
- **C. The global eviction policy is triggered due to TMM memory exhaustion**
- **D. The BIG-IP system starts reaping connections; some connections will be dropped**

Answer: C,D

Explanation:

Comprehensive and Detailed 150 to 250 Words Explanation From BIG-IP Administration, Support, and Troubleshooting Documents:

These log messages indicate that the BIG-IP system's Traffic Management Microkernel (TMM) has entered aggressive eviction mode due to high global memory utilization. When TMM memory consumption reaches critical thresholds, BIG-IP activates the default eviction policy to protect system stability and prevent a full traffic processing failure. This condition directly corresponds to Option A, where the global eviction policy is triggered because TMM memory resources are nearing exhaustion.

Once aggressive mode is activated, BIG-IP begins using the connection sweeper mechanism, which selectively terminates existing connections to free memory. The repeated log entries stating "1 connections killed" confirm that the system is reaping some connections, not all connections. This behavior matches Option C. The eviction process is incremental and controlled, targeting idle, low-priority, or least-recently-used connections first to minimize impact on active traffic.

Option B is incorrect because BIG-IP does not drop all connections during aggressive mode; it only removes enough connections to relieve memory pressure. Option D is also incorrect because TMM eviction is based on TMM global memory usage, not swap memory utilization. TMM does not rely on swap space in the same way the host Linux system does.

These messages are a critical warning sign that the system is under memory stress and may require traffic optimization, connection limits, or hardware scaling.

NEW QUESTION # 42

Refer to the exhibit.

A BIG-IP Administrator needs to deploy an application on the BIG-IP system to perform SSL offload and re-encrypt the traffic to pool members. During testing, users are unable to connect to the application.

What must the BIG-IP Administrator do to resolve the issue? (Choose one answer)

- A. Configure Protocol Profile (Server) as split-session-default-tcp
- **B. Configure an SSL Profile (Server)**
- C. Remove the configured SSL Profile (Client)
- D. Enable Forward Proxy in the SSL Profile (Client)

Answer: B

Explanation:

To successfully perform SSL offload and re-encryption on a BIG-IP system, the virtual server must be configured with both a Client SSL profile and a Server SSL profile. The Client SSL profile enables BIG-IP to decrypt inbound HTTPS traffic from clients, while the Server SSL profile is required to re-encrypt traffic before forwarding it to the pool members.

From the exhibit, the virtual server has a Client SSL profile configured, which allows BIG-IP to accept HTTPS connections from clients. However, there is no Server SSL profile attached, meaning BIG-IP attempts to send unencrypted HTTP traffic to pool members listening on HTTPS (port 443). This protocol mismatch causes the server-side SSL handshake to fail, resulting in users being unable to connect to the application.

This behavior is well documented in BIG-IP SSL troubleshooting guides: when backend servers expect HTTPS, a Server SSL profile is mandatory to establish a secure connection from BIG-IP to the pool members.

The other options are incorrect:

Removing the Client SSL profile (Option A) would break client-side HTTPS.

The server-side TCP profile (Option B) is unrelated to SSL encryption.

Forward Proxy (Option C) is only used for outbound SSL inspection scenarios.

Therefore, configuring an SSL Profile (Server) is the correct and required solution.

NEW QUESTION # 43

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