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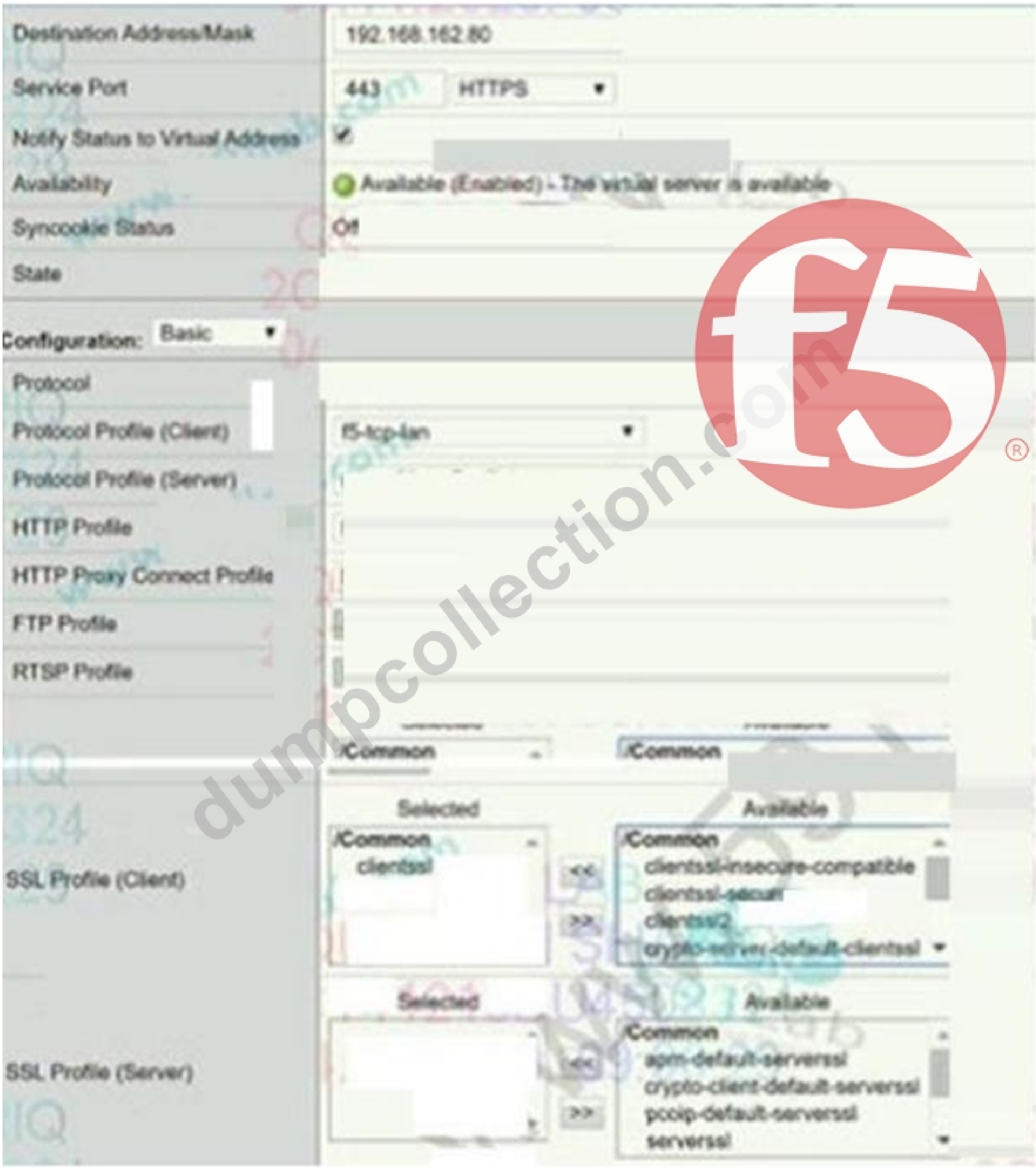
F5 BIG-IP Administration Support and Troubleshooting Sample Questions (Q20-Q25):

NEW QUESTION # 20

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 splitsession-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 # 21
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 # 22
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. Configure a global SNAT Listener
- C. Configure MAC Masquerade
- D. Enable Failover Multicast Configuration

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

Answer: B

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 h1ardware 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
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. Allow SNAT
- D. Action On Service Down

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 # 25
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