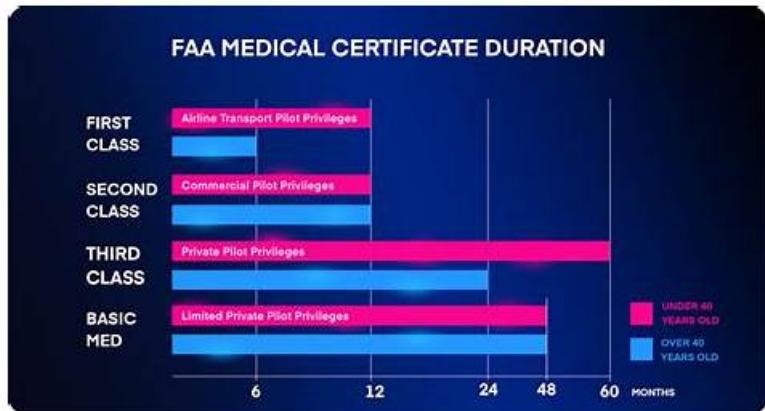


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F5 BIG-IP Administration Data Plane Configuration Sample Questions (Q71-Q76):

NEW QUESTION # 71

Refer to the exhibit.

DNS queries from two internal DNS servers are being load-balanced to external DNS servers via a virtual server on a BIG-IP device. The DNS queries originate from:

192.168.10.100

192.168.10.200

and target:

192.168.2.150

All DNS queries destined for the external DNS servers fail.

Which property change should the BIG-IP Administrator make in the Virtual Server to resolve this issue? (Choose one answer)

- A. Protocol profile (Client) to DNS_OPTIMIZED
- B. Type to Performance (HTTP)
- C. Source Address to 192.168.10.0/24
- D. Protocol to UDP

Answer: D

Explanation:

DNS traffic is primarily transported using UDP port 53. In the exhibit, the Virtual Server is configured with the Protocol set to TCP, which prevents standard DNS queries from being processed correctly. BIG-IP Virtual Servers must be configured with the correct Layer 4 protocol to match the application traffic they are handling.

According to the BIG-IP Administration: Data Plane Configuration documentation:

The Protocol setting on a Virtual Server defines whether traffic is processed as TCP, UDP, or another supported transport protocol. Standard DNS queries and responses use UDP, while TCP is only required for DNS zone transfers (AXFR) or exceptionally large responses.

When a DNS Virtual Server is incorrectly configured with TCP, UDP-based DNS queries are dropped, causing all requests to fail.

Why the other options are incorrect:

A . Protocol profile (Client) to DNS_OPTIMIZED

A DNS profile enhances DNS functionality but does not correct an incorrect transport protocol configuration.

B . Type to Performance (HTTP)

Performance (HTTP) Virtual Servers are designed for HTTP traffic and are not suitable for DNS services.

C . Source Address to 192.168.10.0/24

The existing source IPs already fall within the allowed range, so this setting does not address the failure.

Correct Resolution:

Changing the Protocol to UDP aligns the Virtual Server with standard DNS transport requirements, allowing DNS queries to be successfully processed and load-balanced.

NEW QUESTION # 72

A Standard Virtual Server for a web application is configured with Automap for the Source Address Translation option. The original source address of the client must be known by the backend servers. What should the BIG-IP Administrator configure to meet this requirement?

- A. An HTTP Transparent profile
- B. A SNAT Pool with the client IP
- **C. An HTTP profile to insert the X-Forwarded-For header**
- D. The Virtual Server type as Performance (HTTP)

Answer: C

Explanation:

SNAT Automap is a common configuration that replaces the client's original source IP address with one of the BIG-IP's self IP addresses. This ensures that the backend servers send return traffic back through the BIG-IP, which is necessary for the ADC to process the traffic correctly. However, a side effect of SNAT is that the backend servers only see the BIG-IP's IP in their logs, losing visibility into the true identity of the client.

To resolve this while still using SNAT for routing purposes, the administrator must configure the BIG-IP to "pass" the client's IP address at the application layer. This is achieved by using an HTTP Profile with the Insert X-Forwarded-For setting enabled. When this profile is applied to the Virtual Server, the BIG-IP intercepts the HTTP request, adds a header (X-Forwarded-For) containing the client's original IP, and then forwards the modified request to the server. The backend web server can then be configured to read this header and log the original client IP instead of the BIG-IP's SNAT address.

Other options are incorrect for this requirement. Performance (HTTP) (Option A) is a virtual server type optimized for speed but often lacks the full Layer 7 header manipulation capabilities of a Standard Virtual Server. SNAT Pool with the client IP (Option C) is technically impossible as SNAT pools use static, pre-defined IPs. There is no such thing as an HTTP Transparent profile (Option D) in standard BIG-IP administration for this purpose. The X-Forwarded-For header insertion within the HTTP profile is the standard procedural method for maintaining client visibility in SNAT-enabled environments.

NEW QUESTION # 73

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?

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

Answer: A

Explanation:

Fallback persistence is used when the primary persistence method fails. Source Address Affinity is a Layer 4 persistence method and is fully supported as a fallback option for most virtual server types.

NEW QUESTION # 74

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

Answer: B

Explanation:

When a failover occurs in a standard BIG-IP High Availability (HA) pair, the newly active device takes over the floating IP addresses (Virtual Servers, Self IPs). By default, the new active device sends Gratuitous ARP (GARP) messages to the local network switch to inform it that these IP addresses are now associated with its own physical MAC addresses. However, network switches and intermediate routers often have ARP aging timers or security features that may delay the updating of their ARP tables, leading to "black-holed" traffic or dropped packets for several seconds or minutes until the network infrastructure correctly relearns the new path.

To eliminate this delay and ensure a seamless transition, a BIG-IP Administrator should Configure MAC Masquerade. MAC Masquerade allows the administrator to assign a unique, "virtual" MAC address to a specific traffic group. Instead of using the hardware-burned MAC address of the individual appliance, the active device uses this shared virtual MAC address for all communication involving floating IPs. When a failover occurs, the standby device assumes control of the traffic group and begins using the exact same virtual MAC address. Because the MAC address associated with the VIPs never changes from the switch's perspective, there is no need for the switch to update its MAC address table or for the surrounding infrastructure to update its ARP caches. This effectively eliminates the "stabilization period" reported by users, as the data plane transition happens almost instantaneously at Layer 2, maintaining continuous traffic flow without being hindered by external network re-convergence times.

NEW QUESTION # 75

An organization reports slow performance accessing an Intranet website. All employees use a single proxy IP.

What should the BIG-IP Administrator do?

- **A. Change Default Persistence to cookie**
- B. Change Source Address to proxy IP
- C. Change Load Balancing to Least Connections
- D. Change Fallback Persistence to source_addr

Answer: A

Explanation:

When many users share one source IP, source-address persistence fails. Cookie persistence uniquely identifies clients at Layer 7.

NEW QUESTION # 76

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