

Exam F5 F5CAB3 Study Solutions, Real F5CAB3 Question



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F5 F5CAB3 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Apply procedural concepts required to modify and manage pools: This domain addresses managing server pools including health monitors, load balancing methods, priority groups, and service port configurations.
Topic 2	<ul style="list-style-type: none"> Apply procedural concepts required to modify and manage virtual servers: This domain covers managing virtual servers including applying persistence, encryption, and protocol profiles, identifying iApp objects, reporting iRules, and showing pool configurations.

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F5 BIG-IP Administration Data Plane Configuration Sample Questions (Q69-Q74):

NEW QUESTION # 69

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 # 70

Refer to the exhibit.

A BIG-IP Administrator creates a new Virtual Server to load balance SSH traffic. Users are unable to log on to the servers.

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

- A. Set Protocol to UDP
- B. Set Destination Address/Mask to 0.0.0.0/0
- **C. Set HTTP Profile to None**
- D. Set Source Address to 10.1.1.2

Answer: C

Explanation:

SSH is a Layer 4 TCP-based protocol that operates on TCP port 22 and does not use HTTP in any capacity. In the exhibit, the Virtual Server is configured with an HTTP Profile applied, which is inappropriate for SSH traffic and causes connection failures.

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

An HTTP profile must only be applied to Virtual Servers handling HTTP or HTTPS traffic.

When an HTTP profile is attached, BIG-IP expects HTTP headers and attempts to parse application-layer data.

Non-HTTP protocols such as SSH, FTP (control), SMTP, and other raw TCP services will fail if an HTTP profile is enabled.

Why the other options are incorrect:

A. Set Protocol to UDP

SSH uses TCP, not UDP. Changing the protocol would break SSH entirely.

B. Set Source Address to 10.1.1.2

The source address setting controls client access restrictions and is unrelated to protocol parsing issues.

C . Set Destination Address/Mask to 0.0.0.0/0

The destination address is already valid for a specific SSH service and does not impact protocol handling.

Correct Resolution:

The BIG-IP Administrator should remove the HTTP Profile (set it to None) so the Virtual Server functions as a pure Layer 4 TCP service, allowing SSH connections to pass through successfully.

NEW QUESTION # 71

The BIG-IP Administrator is investigating whether better TCP performance is possible for a virtual server.

Which built-in profile should be tried first? (Choose one answer)

- A. f5-tcp-progressive
- B. No option
- C. f5-tcp-mobile
- D. f5-tcp-legacy

Answer: A

Explanation:

BIG-IP provides several built-in TCP profiles optimized for different traffic patterns and network conditions. When attempting to improve general TCP performance, the recommended starting point is f5-tcp-progressive.

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

f5-tcp-progressive is designed as a balanced, general-purpose TCP optimization profile.

It dynamically adjusts TCP behavior to improve throughput and latency for most enterprise applications.

It is the recommended first-choice profile when tuning TCP performance before moving to more specialized profiles.

Why the other options are incorrect:

A . f5-tcp-legacy

This profile exists for backward compatibility and does not include modern TCP optimizations.

C . f5-tcp-mobile

This profile is optimized specifically for high-latency, lossy mobile networks and is not suitable for general-purpose environments.

D . No option

BIG-IP explicitly provides built-in TCP profiles for performance tuning; using none would forgo optimization opportunities.

Correct Resolution:

The administrator should first apply f5-tcp-progressive to evaluate potential TCP performance improvements before considering more specialized profiles.

NEW QUESTION # 72

Refer to the exhibit.

□ A BIG-IP Administrator needs to configure health monitors for a newly configured server pool named Pool_B.

Which health monitor settings will ensure that all pool members will be accurately marked as available or unavailable? (Choose one answer)

- A. HTTPS, HTTP, FTP, and SSH with the Availability Requirement of all health monitors
- B. HTTPS, HTTP, FTP, and SSH with the Availability Requirement of at least one health monitor
- C. HTTPS, HTTP, FTP, and SSH with the Availability Requirement of all health monitors
- D. HTTP, HTTPS, FTP, and ICMP with the Availability Requirement of at least one health monitor

Answer: B

Explanation:

From the exhibit, the pool contains different applications on different service ports (for example, HTTP/80, FTP/21, HTTPS/443, SSH/22). To mark pool members correctly, BIG-IP must be able to verify the actual service running on each member's port.

In BIG-IP Administration: Data Plane Configuration, monitor behavior is described as follows:

* When multiple monitors are assigned to a pool, the Availability Requirement controls how monitor results are evaluated:

* At least one = the pool member is marked up if any one of the assigned monitors succeeds.

* All = the pool member is marked up only if every assigned monitor succeeds.

* For pools containing members with different services/ports, using All can incorrectly mark members down because monitors intended for other services will fail on the wrong port.

Why C is correct:

* Assigning HTTPS, HTTP, FTP, and SSH covers the actual services shown in the pool.

* Setting the Availability Requirement to at least one ensures that each pool member is considered available when its appropriate service monitor succeeds, without being forced to pass unrelated service monitors.

Why the other options are incorrect:

* A / D (Availability Requirement = all): would cause members to be marked down when unrelated monitors fail (e.g., SSH monitor against an HTTP member).

* B (includes ICMP): ICMP can indicate the host is reachable even if the application service is down, which does not "accurately" reflect service availability.

Therefore, the best choice is HTTPS, HTTP, FTP, and SSH with Availability Requirement of at least one health monitor.

NEW QUESTION # 73

A BIG-IP Administrator finds the following log entry after a report of user issues connecting to a virtual server:

01010201: Intercept exhaustion on 10.70.110.112 to 192.28.123.250:80 (proto 6) How should the BIG-IP Administrator modify the SNAT pool that is associated with the virtual server?

(Choose one answer)

- A. Increase the timeout of the SNAT addresses
- B. Remove an IP address from the SNAT pool
- C. Add an IP address to the SNAT pool
- D. Remove the SNAT pool and apply SNAT Automap

Answer: C

Explanation:

The log message "Intercept exhaustion" indicates that the BIG-IP system has exhausted the available source port translations for one or more SNAT addresses. This occurs when too many concurrent client connections are being translated through a limited number of SNAT IP addresses, and all ephemeral source ports (typically ~64,000 per SNAT IP) are in use.

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

Each SNAT IP address provides a finite number of available source ports.

When the number of concurrent connections exceeds the available port space, the BIG-IP logs an Intercept exhaustion error and new connections fail.

The recommended resolution is to increase the available SNAT resources by adding additional IP addresses to the SNAT pool.

Why the other options are incorrect:

A). Increase the timeout of the SNAT addresses Increasing timeouts may actually worsen the problem by keeping ports allocated longer, accelerating port exhaustion.

B). Remove the SNAT pool and apply SNAT Automap SNAT Automap uses the Self IP addresses on the egress VLAN, which may not provide additional capacity and can introduce routing or design issues. This is not a direct or recommended fix for SNAT exhaustion.

C). Remove an IP address from the SNAT pool This would reduce the number of available source ports and further exacerbate the intercept exhaustion condition.

Correct Resolution:

By adding an IP address to the SNAT pool, the BIG-IP increases the total number of available source ports, alleviating intercept exhaustion and restoring successful client connections.

NEW QUESTION # 74

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