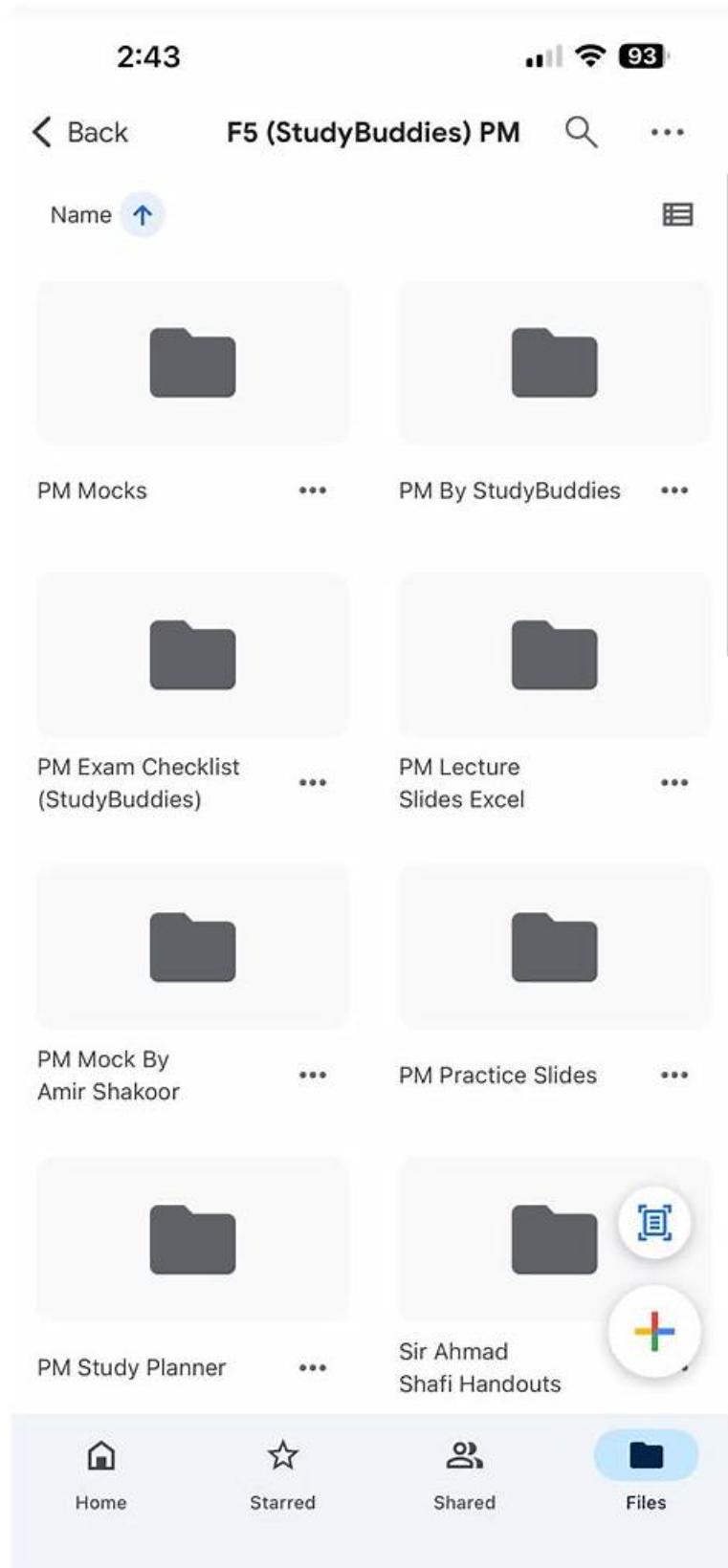


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F5 BIG-IP Administration Data Plane Configuration Sample Questions (Q46-Q51):

NEW QUESTION # 46

A BIG-IP Administrator adds new pool members to a highly utilized pool. The application begins failing. What pool-level setting should be checked?

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

Answer: B

Explanation:

Slow Ramp Time prevents new members from being overwhelmed immediately after activation.

NEW QUESTION # 47

In a pool there are 2 pool members (older servers) that can handle fewer connections than the other 3 newer servers. Which load balancing method would allow more traffic to be directed to the newer servers? (Choose one answer)

- A. Global Availability
- **B. Weighted Least Connections (member)**
- C. Least Connections (member)
- D. Round Robin

Answer: B

Explanation:

This scenario requires unequal load distribution based on server capacity. The newer servers must receive more connections than the older ones, while still dynamically accounting for active connection counts.

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

- * Weighted Least Connections (member) combines:
- * Connection awareness (least connections)
- * Administrator-defined weights (ratios) to reflect server capacity

* Pool members with higher weights receive proportionally more new connections than members with lower weights, even when using the same load balancing algorithm.

Why B is correct:

* Allows assigning higher weights to newer servers and lower weights to older servers

* Ensures smarter traffic distribution based on both capacity and real-time load

Why the other options are incorrect:

* A. Global AvailabilityUsed for disaster recovery and site failover, not intra-pool load distribution.

* C. Round RobinDistributes connections evenly without considering server capacity.

* D. Least Connections (member)Balances only by current connection count and does not account for differences in server performance or capacity.

Correct Resolution:

Use Weighted Least Connections (member) and assign higher weights to newer servers so they receive more traffic while protecting older servers from overload.

NEW QUESTION # 48

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

Answer: C

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 # 49

A Standard Virtual Server for a web application is configured with Automap for Source Address Translation.

The original client IP must be known by backend servers.

What should the BIG-IP Administrator configure?

- A. Performance (HTTP) Virtual Server
- B. HTTP Transparent profile
- **C. HTTP profile to insert X-Forwarded-For**
- D. SNAT pool using client IP

Answer: C

Explanation:

The X-Forwarded-For header preserves the original client IP when SNAT is enabled.

NEW QUESTION # 50

A BIG-IP Administrator uses backend servers to host multiple services per server. There are multiple virtual servers and pools defined, referencing the same backend servers.

Which load balancing algorithm is most appropriate to have an equal number of connections on each backend server? (Choose one answer)

- A. Least Connections (member)
- B. Predictive (node)
- **C. Least Connections (node)**
- D. Predictive (member)

Answer: C

Explanation:

In this scenario, each backend node (server) hosts multiple services and is referenced by multiple pools and virtual servers. The goal is to ensure an equal number of total connections per backend server, regardless of how many pool members (services/ports) exist on that server.

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

* Least Connections (node) tracks the total number of active connections to a node across all pool members and services.

* This algorithm ensures load distribution is balanced at the server level, not just at the individual service (member) level.

* It is specifically recommended when:

* Multiple pool members exist on the same backend server

* Multiple virtual servers reference the same backend servers

Why the other options are incorrect:

* B. Predictive (member) Predictive algorithms are advanced and traffic-pattern based, but they operate at the member level and do not guarantee equal connections per server.

* C. Least Connections (member) This balances connections per pool member, which can overload a server hosting multiple members while still appearing "balanced" per member.

* D. Predictive (node) Although node-aware, predictive algorithms are less deterministic and not the best choice when strict equality of connections is required.

Correct Resolution:

Using Least Connections (node) ensures that each backend server carries an equal connection load across all services and pools.

NEW QUESTION # 51

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