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F5 BIG-IP Administration Data Plane Concepts (F5CAB2) Sample Questions (Q13-Q18):

NEW QUESTION # 13
Refer to the exhibit.

The BIG-IP Administrator needs to avoid overloading any of the pool members with connections when they become active. What should the BIG-IP Administrator configure to meet this requirement? (Choose one answer)

- A. Different Ratio for each member
- B. Action On Service Down to Reselect
- C. Slow Ramp Time to the Pool
- D. Same Priority Group to each member

Answer: C

Explanation:

Comprehensive and Detailed Explanation From BIG-IP Administration Data Plane Concepts documents:
This question focuses on connection behavior when pool members transition from down to up, which is a classic data plane consideration in BIG-IP environments.
What problem is being solved?
When a pool member:
Recovers from a failure
Is enabled after maintenance
Transitions from inactive to active
...it can suddenly receive a large burst of new connections, especially when using load-balancing methods such as Least Connections. This sudden surge can overload the server.
Why Slow Ramp Time is the correct solution:
Slow Ramp Time is a pool-level setting that:
Gradually increases the number of connections sent to a newly available pool member Prevents sudden spikes in traffic Allows the server to warm up (application cache, JVM, DB connections, etc.) From BIG-IP Administration Data Plane Concepts:
Slow Ramp Time controls the rate at which BIG-IP increases load to a pool member that has just become available During the ramp period, BIG-IP artificially increases the member's connection count, making it appear "busier" and therefore less attractive for new connections This directly satisfies the requirement to avoid overloading pool members when they become active.
Why the Other Options Are Incorrect:
B . Different Ratio for each member
Ratios control relative distribution under normal operation
They do not prevent a sudden surge when a member becomes active
C . Action On Service Down to Reselect
Controls persistence behavior when a member goes down
Has no impact on connection ramp-up when a member comes back online
D . Same Priority Group to each member
Affects failover logic between priority groups
Does not control connection rate or ramp-up behavior
Key Data Plane Concept Reinforced:
To protect backend servers during recovery events, BIG-IP provides Slow Ramp Time, ensuring graceful reintroduction of traffic and preventing connection storms that can occur during high-load scenarios.

NEW QUESTION # 14
Which statement is true concerning the default communication between a redundant pair of BIG-IP devices?

- A. Regardless of the configuration, some data is communicated between the systems at regular intervals.
- B. Data for both connection and persistence mirroring are shared through the same TCP connection.
- C. Connection mirroring data is shared through the serial fail over cable unless network failover is enabled.
- D. Communication between the systems cannot be effected by port lockdown settings.

Answer: A

Explanation:
Redundant BIG-IP systems (HA pairs) must maintain constant communication to monitor the health of the peer and synchr15onize states.16
* Heartbeats: By default, even with a serial cable, th17e BIG-IP systems exchange "heartbeat" packets over the network to determine if the peer is still alive.
* Network Failover: This involves the exchange of UDP packets (typically on port 1026) at regular intervals.
* Device Service Clustering (DSC): Modern BIG-IP versions use the Central Management (cm) infrastructure to communicate configuration status and sync status constantly.
* Clarification on others: Port lockdown does affect HA communication if misconfigured (A is false).
Mirroring uses separate channels (B is false). Mirroring is never sent over the serial cable because it requires high bandwidth (D is false).

NEW QUESTION # 15
Refer to the exhibit above.
A BIG-IP pool is configured with Priority Group Activation = Less than 2 available members. The pool members have different priority groups and availability states. Which pool members are receiving traffic? (Choose one answer)

- A. serv1, serv3, serv4
- B. serv1, serv3
- C. serv1
- D. serv1, serv2, serv3, serv4

Answer: A

Explanation:
Comprehensive and Detailed Explanation From BIG-IP Administration Data Plane Concepts documents:
This question tests understanding of Priority Group Activation (PGA) and how BIG-IP determines which pool members are eligible to receive traffic.
Key BIG-IP Priority Group Concepts:
Higher priority group numbers = higher priority
BIG-IP will only send traffic to the highest priority group that meets the Priority Group Activation condition Lower priority groups are activated only when the condition is met Only available (green) members count toward the activation threshold Configuration from the Exhibit:
Priority Group Activation: Less than 2 available members
Pool Members and Status:
Pool Member Priority Group Status
serv1 2 Active (available)
serv2 2 Inactive (down)
serv3 1 Active (available)
serv4 1 Active (available)
Step-by-Step Traffic Decision:
BIG-IP first evaluates the highest priority group (Priority Group 2)
Priority Group 2 has:
serv1 → available
serv2 → unavailable
Total available members = 1
Activation rule is Less than 2 available members
Condition is true (1 < 2)
BIG-IP activates the next lower priority group (Priority Group 1)
Traffic is now sent to:
serv1 (Priority Group 2)
serv3 and serv4 (Priority Group 1)
Final Result:
Traffic is distributed to serv1, serv3, and serv4
Why the Other Options Are Incorrect:
A - Ignores activation of the lower priority group
B - serv4 is also active and eligible
C - serv2 is down and cannot receive traffic
Key Data Plane Concept Reinforced:
Priority Group Activation controls when lower-priority pool members are allowed to receive traffic, based strictly on the number of available members in the higher-priority group. In this case, the failure of one high-priority member caused BIG-IP to expand traffic distribution to lower-priority members to maintain availability.

NEW QUESTION # 16
A BIG-IP Administrator makes a configuration change to a Virtual Server on the Standby device of an HA pair. The HA pair is currently configured with Auto-Sync enabled. What effect will the change have on the HA pair configuration? (Choose one answer)

- A. The change will take effect when Auto-Sync propagates the config to the HA pair.
- B. The change will be undone when Auto-Sync propagates the config to the Standby device.
- C. The change will be undone next time a configuration change is made on the Active device.
- D. The change will be propagated next time a configuration change is made on the Active device.

Answer: B

Explanation:
In a BIG-IP high availability (HA) configuration, Auto-Sync is a device trust feature that automatically synchronizes configuration changes from the Active device to the Standby device within a Sync-Failover device group.

Key principles from BIG-IP Administration Data Plane Concepts:
* The Active device is always the authoritative source of configuration
* Configuration changes are intended to be made only on the Active device
* With Auto-Sync enabled, any time the Active device configuration changes, the system automatically pushes the configuration to all Standby members of the device group
* Configuration changes made directly on a Standby device are not preserved In this scenario:
* The administrator modifies a Virtual Server on the Standby device
* That change is local only and does not alter the device group's synchronized configuration
* When Auto-Sync next runs (triggered by a change on the Active device or an internal sync event), the Active device configuration overwrites the Standby configuration As a result, the configuration change made on the Standby device is undone.
Why the Other Options Are Incorrect:
* A - The change is not undone only when another change is made; it is undone during the next Auto- Sync operation
* B - Changes made on the Standby device are never propagated to the Active device
* D - Auto-Sync does not merge or promote Standby changes into the HA pair configuration Best Practice Reinforced:
Always perform configuration changes on the Active BIG-IP device when Auto-Sync is enabled to ensure consistent and predictable HA behavior.

NEW QUESTION # 17
The BIG-IP Administrator wants to provide quick failover between the F5 LTM devices that are configured as an HA pair with a single Self IP using the MAC Masquerade feature. The administrator configures MAC masquerade for traffic-group-1 using the following command:
`tmsh modify /cm traffic-group traffic-group-1 mac 02:12:34:56:00:00`
However, the Network Operations team identifies an issue with using the same MAC address across multiple VLANs. As a result, the administrator enables Per-VLAN MAC Masquerade to ensure a unique MAC address per VLAN by running:
`tmsh modify /sys db tm.macmasqaddr_per_vlan value true`
What would be the resulting MAC address on a tagged VLAN with ID 1501? (Choose one answer)

- A. 02:12:34:56:01:15
- B. 02:12:34:56:15:01
- C. 02:12:34:56:dd:05
- D. 02:12:34:56:05:dd

Answer: D

NEW QUESTION # 18
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