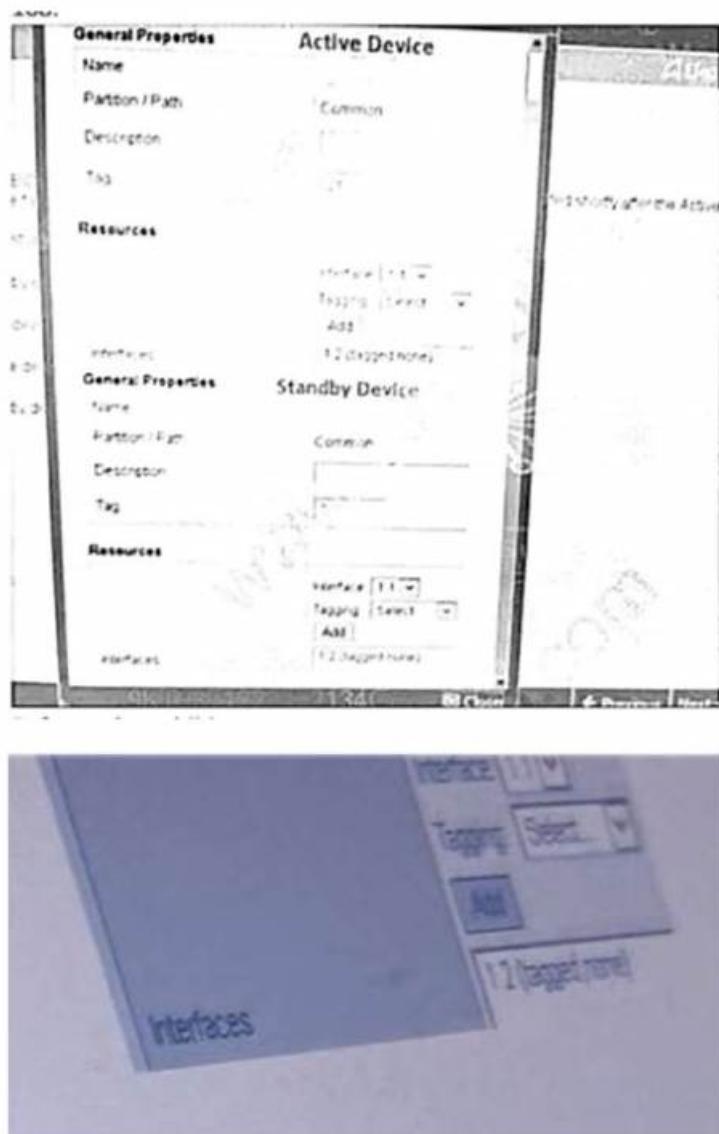


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F5 BIG-IP Administration Data Plane Concepts (F5CAB2) Sample Questions (Q43-Q48):

NEW QUESTION # 43

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

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

Answer: D

NEW QUESTION # 44

Which three iRule events are likely to be seen in iRules designed to select a pool for load balancing? (Choose three.)

- A. HTTP_RESPONSE
- B. **HTTP_REQUEST**
- C. SERVER_SELECTED
- D. SERVER_CONNECTED
- E. SERVER_DATA
- F. **CLIENT_DATA**
- G. **CLIENT_ACCEPTED**

Answer: B,F,G

Explanation:

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In the BIG-IP system, pool selection must occur on the client-side of the connection, before the system attempts to connect to a pool member. The events listed are the primary entry points for making these decisions:

* CLIENT_ACCEPTED (E): This is a Layer 4 event triggered when the BIG-IP accepts a TCP connection. It is the earliest point where a pool can be assigned based on the client's source IP address or the destination port.

* CLIENT_DATA (A): This event is triggered when the system receives a "chunk" of data on the client-side. It is often used for non-HTTP protocols (like custom TCP protocols) to inspect the payload and select a pool based on its contents.

* HTTP_REQUEST (C): This is a Layer 7 event. It occurs once the BIG-IP has fully parsed the HTTP headers. This is the most common event for pool selection, allowing the administrator to route traffic based on the URI, Host header, or cookies.

Events like SERVER_SELECTED or SERVER_CONNECTED occur after the load balancing decision has already been made, and HTTP_RESPONSE or SERVER_DATA occur after the server has already started communicating back, making them too late for initial pool selection.

NEW QUESTION # 45

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

Answer: C

Explanation:

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 # 46

What should a BIG-IP Administrator configure to minimize impact during a failover? (Choose one answer)

- A. MAC masquerading
- B. OneConnect profile
- C. Clone pool
- D. External monitors

Answer: A

Explanation:

In BIG-IP high availability (HA) deployments, one of the primary causes of traffic disruption during failover is Layer 2 and Layer 3 relearning by upstream network devices (switches and routers). When traffic groups move from the Active device to the Standby

device, the network must quickly associate the IP addresses with the new device.

Why MAC Masquerading Minimizes Failover Impact:

MAC masquerading allows a traffic group to use a floating, shared MAC address for its Self IPs. This MAC address moves with the traffic group during failover.

Key benefits:

- * The MAC address does not change when failover occurs
- * Upstream switches do not need to relearn ARP entries
- * Traffic resumes almost immediately after failover
- * Dramatically reduces packet loss and connection interruption

From BIG-IP Administration Data Plane Concepts:

* MAC masquerade is specifically designed to provide fast failover
* It is a best practice for HA pairs, especially in environments sensitive to latency and connection loss Why the Other Options Are Incorrect:

- * A. External monitors
- * Used to check the availability of external resources
- * Do not reduce network convergence or failover disruption
- * B. Clone pool
- * Used for traffic mirroring or security analysis
- * Has no impact on failover behavior
- * C. OneConnect profile
- * Optimizes server-side TCP connections
- * Does not address ARP or MAC relearning during failover

Key HA Concept Reinforced:

To minimize failover impact on live traffic, BIG-IP administrators should ensure Layer 2 continuity. MAC masquerading is the primary mechanism that enables near-instant failover by preventing ARP and MAC table reconvergence delays.

NEW QUESTION # 47

A BIG-IP Administrator is making adjustments to an iRule and needs to identify which of the 235 Virtual Servers configured on the BIG-IP device will be affected. How should the administrator obtain this information in an efficient way?

- A. Local Traffic > Pools
- B. Local Traffic > Network Map
- C. Local Traffic > Virtual Servers
- D. Local Traffic > iRules

Answer: D

Explanation:

When managing a large environment with hundreds of Virtual Servers, the most efficient way to identify the relationship between an iRule and the objects it manages is to view the properties of the iRule itself.

* **iRule Properties:** Within the BIG-IP Configuration Utility, navigating to Local Traffic > iRules and selecting a specific iRule provides a "Statistics" or "Usage" tab (depending on the version). This view explicitly lists all Virtual Servers currently associated with that specific iRule.

* **Centralized Management:** Instead of manually checking 235 individual Virtual Servers under the "Virtual Servers" menu, the iRules menu acts as a central point of reference for that specific logic.

* **Data Plane Impact:** Because iRules can modify traffic flow, headers, and load balancing decisions, seeing the full list of affected Virtual Servers is critical before making adjustments to avoid unintended side effects across the application portfolio.

NEW QUESTION # 48

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