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F5 BIG-IP Administration Data Plane Concepts (F5CAB2) Sample Questions (Q34-Q39):

NEW QUESTION # 34
A virtual server is listening at 10.10.1.100:80 and has the following iRule associated with it:
when HTTP_REQUEST { if { [HTTP::header UserAgent] contains "MSIE" }
{ pool MSIE_pool }
else { pool Mozilla_pool }
If

a user connects to http://10.10.1.100/foo.html and their browser does not specify a UserAgent, which pool will receive the request?

- A. None. The request will be dropped.
- B. MSIE_pool
- C. Mozilla_pool
- D. Unknown. The pool cannot be determined from the information provided.

Answer: C

NEW QUESTION # 35
Refer to the exhibit.
The network team creates a new VLAN on the switches. The BIG-IP Administrator creates a new VLAN and a Self IP on the BIG-IP device, but the servers on the new VLAN are NOT reachable from the BIG-IP device.
Which action should the BIG-IP Administrator take to resolve this issue? (Choose one answer)

- A. Assign a physical interface to the new VLAN
- B. Set Port Lockdown of the Self IP to Allow All
- C. Change Auto Last Hop to enabled
- D. Create a Floating Self IP address

Answer: A

Explanation:
Comprehensive and Detailed Explanation (BIG-IP Administration - Data Plane Concepts):
For BIG-IP to send or receive traffic on a VLAN, that VLAN must be bound to a physical interface or a trunk. Creating a VLAN object and a Self IP alone is not sufficient to establish data-plane connectivity.
From the exhibit:
The VLAN (vlan_1033) exists and has a tag defined.
A Self IP is configured and associated with the VLAN.
However, traffic cannot reach servers on that VLAN.
This indicates a Layer 2 connectivity issue, not a Layer 3 or HA issue.
Why assigning a physical interface fixes the problem:
BIG-IP VLANs do not carry traffic unless they are explicitly attached to:
A physical interface (e.g., 1.1), or
A trunk
Without an interface assignment, the VLAN is effectively isolated and cannot transmit or receive frames, making servers unreachable regardless of correct IP addressing.
Why the other options are incorrect:
A . Set Port Lockdown to Allow All
Port Lockdown controls which services can be accessed on the Self IP (management-plane access), not whether BIG-IP can reach servers on that VLAN.
B . Change Auto Last Hop to enabled
Auto Last Hop affects return traffic routing for asymmetric paths. It does not fix missing Layer 2 connectivity.
D . Create a Floating Self IP address
Floating Self IPs are used for HA failover. They do not resolve reachability issues on a single device when the VLAN itself is not connected to an interface.
Conclusion:
The servers are unreachable because the VLAN has no physical interface assigned. To restore connectivity, the BIG-IP Administrator must assign a physical interface (or trunk) to the VLAN, enabling Layer 2 traffic flow.

NEW QUESTION # 36
Which three iRule events are likely to be seen in iRules designed to select a pool for load balancing? (Choose three.)

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

- G. SERVER_DATA

Answer: A,B,E

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 3member. The events listed 4are 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 # 37
Refer to the exhibit.

The BIG-IP Administrator needs toavoid 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. Slow Ramp Time to the Pool
- B. Action On Service Down to Reselect
- C. Different Ratio for each member
- D. Same Priority Group to each member

Answer: A

Explanation:
This question focuses onconnection 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 frominactivetoactive
...it can suddenly receive alarge burst of new connections, especially when using load-balancing methods such asLeast Connections. This sudden surge can overload the server.
Why Slow Ramp Time is the correct solution:
Slow Ramp Timeis 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 therate at which BIG-IP increases loadto 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 toavoid overloading pool members when they become active.
Why the Other Options Are Incorrect:
* B. Different Ratio for each member
* Ratios controlrelative distributionunder 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 providesSlow Ramp Time, ensuringgraceful reintroduction of trafficand preventing connection storms that can occur during high-load scenarios.

NEW QUESTION # 38
The BIG-IP Administrator wants to provide quick failover between the F5 LTM devices that are configured as an HA pair with a single-selfip using the MAC Masquerade feature for this quick failover and runs this command: tmsh modify /cm traffic-group traffic-group-1 mac 02:12:34:56:00:00 However, the Network Operations team has identified an issue with the use of the same MAC address being used within different VLANs. As a result, the administrator decides to implement the Per-VLAN Mac Masquerade in order to have a unique MAC address on each VLAN: tmsh modify /sys db tm.macmasqaddr_per_vlan value true. What would be the resulting MAC address on a tagged VLAN of 1501? (Choose one answer)

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

Answer: D

Explanation:
According to F5 BIG-IP documentation regarding High Availability and MAC Masquerade behavior, the system allows for more granular control over Layer 2 addresses during failover events.
* Standard MAC Masquerade: By default, when a traffic group is assigned a MAC masquerade address (like 02:12:34:56:00:00), the BIG-IP system uses that exact MAC address for all traffic associated with that traffic group across all VLANs. This ensures that upstream switches do not need to relearn ARP entries for the Virtual IP, but it can cause issues in environments where multiple VLANs share the same physical infrastructure or monitoring tools that flag identical MACs across segments.
* Per-VLAN MAC Masquerade: When the system database variable tm.macmasqaddr_per_vlan is set to true, the BIG-IP system calculates a unique MAC address for each VLAN. It does this by taking the base MAC masquerade address configured in the traffic group and adding the VLAN ID (tag) to it.
* Calculation Logic:
* Base MAC: 02:12:34:56:00:00
* VLAN ID: 1501
* To find the suffix, the VLAN ID is converted from decimal to hexadecimal:
* 1501 in decimal = 05DD in hex.
* The system then applies this offset to the last two octets of the base MAC address.
* 00:00 + 05:DD = 05:DD.
* Result: The final MAC address for VLAN 1501 becomes 02:12:34:56:05:dd.
This ensures that every VLAN has a unique Layer 2 identity while still reaping the benefits of "gratuitous ARP-less" failover provided by MAC masquerading.

NEW QUESTION # 39
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