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F5 BIG-IP Administration Data Plane Concepts (F5CAB2) Sample Questions (Q39-Q44):

NEW QUESTION # 39
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:dd:05
- C. 02:12:34:56:05:dd
- D. 02:12:34:56:15:01

Answer: C

Explanation:
Comprehensive and Detailed Explanation From BIG-IP Administration Data Plane Concepts documents:
In BIG-IP high availability (HA) configurations, MAC Masquerade is used to speed up failover by allowing traffic-group-associated Self IPs to retain the same MAC address when moving between devices. This prevents upstream switches and routers from having to relearn ARP entries during a failover event, resulting in near-instant traffic recovery.
By default, MAC masquerade applies one MAC address per traffic group, regardless of how many VLANs the traffic group spans. This can create problems in some network designs because the same MAC address appearing on multiple VLANs may violate network policies or confuse switching infrastructure.
To address this, BIG-IP provides Per-VLAN MAC Masquerade, enabled by the database variable:
`tm.macmasqaddr_per_vlan = true`
When this feature is enabled:
BIG-IP derives a unique MAC address per VLAN
The base MAC address configured on the traffic group remains the first four octets The last two octets are replaced with the VLAN ID expressed in hexadecimal The VLAN ID is encoded in network byte order (high byte first, low byte second)
VLAN ID Conversion:
VLAN ID: 1501 (decimal)
Convert to hexadecimal:
1501_{10} = 0x05DD
High byte: 05
Low byte: DD
Resulting MAC Address:
Base MAC: `02:12:34:56:00:00`
Per-VLAN substitution → last two bytes = `05:DD`
Final MAC address:
`02:12:34:56:05:dd`
Why the Other Options Are Incorrect:
A (01:15) - Incorrect hexadecimal conversion of 1501
B (dd:05) - Byte order reversed (little-endian, not used by BIG-IP)
D (15:01) - Uses decimal values instead of hexadecimal
Key BIG-IP HA Concept Reinforced:
Per-VLAN MAC Masquerade ensures Layer 2 uniqueness per VLAN while preserving the fast failover benefits of traffic groups, making it the recommended best practice in multi-VLAN HA deployments.

NEW QUESTION # 40
What should a BIG-IP Administrator configure to minimize impact during a failover? (Choose one answer)

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

Answer: B

Explanation:
Comprehensive and Detailed Explanation From BIG-IP Administration Data Plane Concepts documents:
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 # 41

The BIG-IP appliance fails to boot. The BIG-IP Administrator needs to run the End User Diagnostics (EUD) utility to collect data to send to F5 Support.
Where can the BIG-IP Administrator access this utility?

- A. Console Port
- B. Internal VLAN interface
- C. External VLAN interface
- D. Management Port

Answer: A

NEW QUESTION # 42

An ecommerce company is experiencing latency issues with online shops during Black Friday's peak season. The BIG-IP Administrator detects an overall high CPU load on the BIG-IP device and wants to move the top utilized Virtual Servers to a dedicated BIG-IP device. Where should the BIG-IP Administrator determine the problematic Virtual Servers? (Choose one answer)

- A. System > Platform
- B. Local Traffic > Virtual Servers > Virtual Server List
- C. Local Traffic > Network Map
- D. Statistics > Module Statistics > Local Traffic > Virtual Servers

Answer: D

Explanation:
Comprehensive and Detailed Explanation From BIG-IP Administration Data Plane Concepts documents:
When troubleshooting performance and latency issues on BIG-IP, especially under peak load conditions, it is critical to identify which Virtual Servers are consuming the most resources. This is a core data plane analysis task.
BIG-IP provides multiple views of configuration and status, but only certain areas expose real-time and historical traffic statistics that correlate directly with CPU usage and throughput.
Why Option C Is Correct:
Statistics > Module Statistics > Local Traffic > Virtual Servers provides:
Real-time and cumulative statistics per Virtual Server
Metrics such as:
Bits in / Bits out
Packets in / Packets out
Current connections
Connection rate
Total requests
The ability to identify high-traffic or high-connection Virtual Servers, which are the most likely contributors to elevated CPU utilization These statistics allow the administrator to objectively determine which Virtual Servers are the top consumers of system resources and therefore good candidates for migration to a dedicated BIG-IP device.
Why the Other Options Are Incorrect:
A . Local Traffic > Virtual Servers > Virtual Server List
Primarily a configuration view

Does not provide sufficient performance or utilization statistics to identify CPU-heavy Virtual Servers B . System > Platform Displays hardware-level information such as CPU cores, memory, disk, and platform type Does not break down utilization by Virtual Server D . Local Traffic > Network Map Provides a logical topology view of Virtual Servers, pools, and pool members Useful for understanding relationships, but not for identifying high-utilization Virtual Servers Key Data Plane Concept Reinforced: To diagnose performance problems and plan traffic redistribution, BIG-IP administrators must rely on Module and object-level statistics, not configuration screens. The Virtual Server statistics view is the authoritative location for identifying traffic hotspots that directly impact CPU and latency during peak events such as Black Friday.

NEW QUESTION # 43

A BIG-IP Administrator assigns the default HTTP health monitor to a pool that has three members listening on port 80. When the administrator connects to each pool member using the curl utility, two of the members respond with a status of 404 Not Found, while the third responds with 200 OK. What will the pool show for member availability? (Choose one answer)

- A. Two members online and one member offline
- B. All members online
- C. Two members offline and one member online
- D. All members offline

Answer: C

Explanation:
Comprehensive and Detailed Explanation From BIG-IP Administration Data Plane Concepts documents:
In BIG-IP LTM, health monitors are used to determine the availability of pool members and directly influence traffic flow decisions in the data plane.
Key characteristics of the default HTTP monitor according to BIG-IP Administration Data Plane Concepts:
Sends an HTTP request (typically GET /)
Expects an HTTP response code of 200 OK
Any response other than 200 is treated as a monitor failure
A failed monitor causes the pool member to be marked offline (down)
In this scenario:
Two pool members return 404 Not Found
A 404 response indicates that the requested object was not found
This does not meet the success criteria of the default HTTP monitor
These two members are therefore marked offline
One pool member returns 200 OK
This matches the expected response
The member is marked online
Resulting Pool Member Availability:
2 members: Offline
1 member: Online
Why the Other Options Are Incorrect:
B - 404 responses are not considered healthy by the default HTTP monitor C - At least one member responds with the expected 200 OK D - Members returning 404 responses fail the monitor and cannot be marked online Key Data Plane Concept Reinforced: BIG-IP health monitors make binary availability decisions based strictly on configured success criteria. For HTTP monitors, response codes matter-404 is a failure, even if the service is technically reachable.

NEW QUESTION # 44

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