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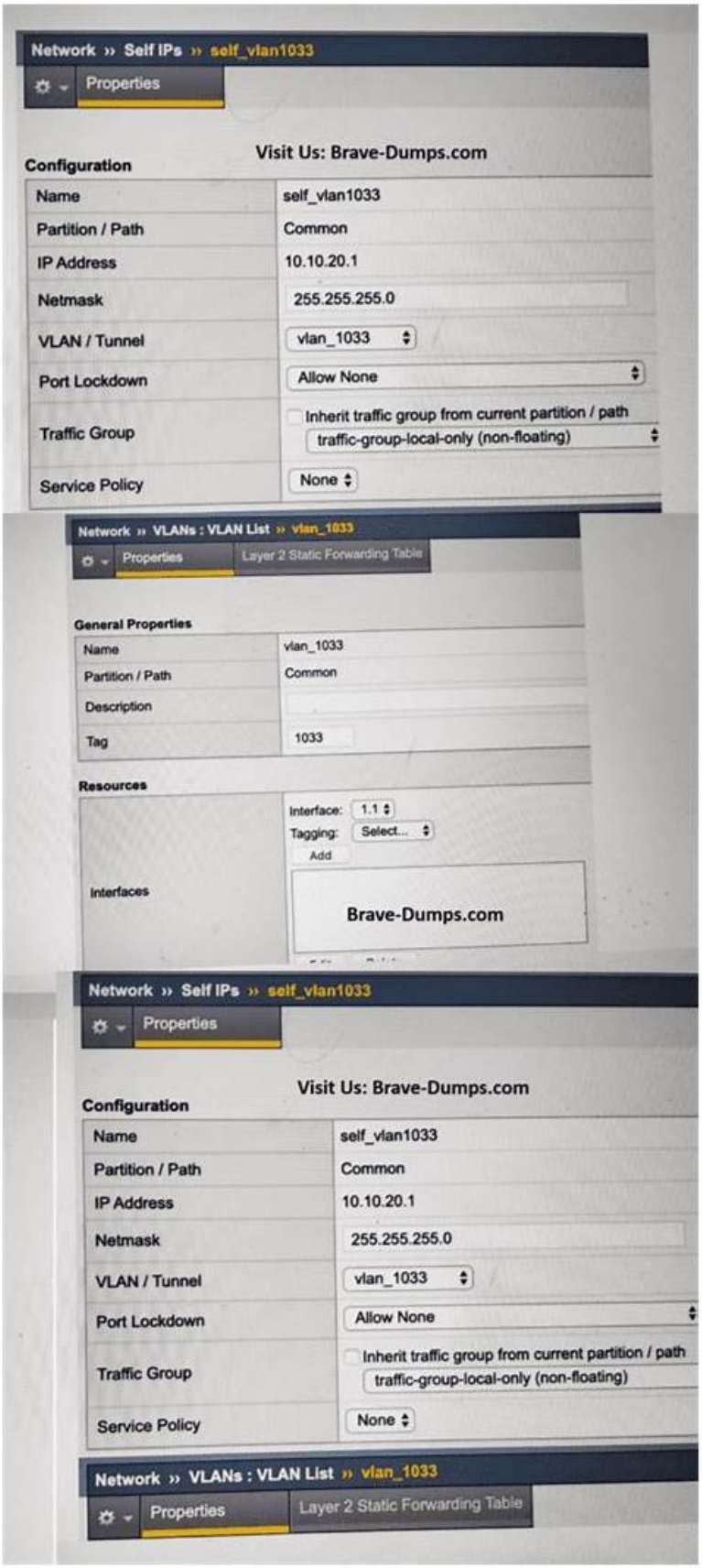

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F5 BIG-IP Administration Data Plane Concepts (F5CAB2) Sample Questions (Q35-Q40):

NEW QUESTION # 35
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. 02:12:34:56:15:01
- B. 02:12:34:56:05:dd
- C. 02:12:34:56:01:15
- D. 02:12:34:56:dd:05

Answer: B

Explanation:
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## = 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 # 36
An application is configured so that the same pool member must be used for an entire session, and this behavior must persist across HTTP and FTP traffic. A user reports that a session terminates and must be restarted after the active BIG-IP device fails over to the standby device.
Which configuration settings should the BIG-IP Administrator verify to ensure proper behavior when BIG-IP failover occurs? (Choose one answer)

- A. Stateful failover and Network Failover detection
- B. Persistence mirroring and Match Across Services
- C. Cookie persistence and session timeout
- D. SYN-cookie insertion threshold and connection low-water mark

Answer: B

Explanation:
This scenario combines session continuity, multiple protocols (HTTP and FTP), and HA failover behavior
, which directly implicates persistence handling across devices and services.
Key Requirements Breakdown
* Same pool member for entire session
* Session must survive failover
* Session must span multiple services (HTTP and FTP)
Why Persistence Mirroring + Match Across Services Is Required
Persistence Mirroring
* Ensures persistence records are synchronized from the active BIG-IP to the standby BIG-IP.
* Without mirroring:
* After failover, the standby device has no persistence table
* Clients are load-balanced again
* Sessions break, forcing users to restart
* Persistence mirroring is essential for session continuity during failover Match Across Services
* Allows a single persistence record to be shared across multiple virtual servers / protocols
* Required when:
* HTTP and FTP must use the same pool member
* Multiple services are part of a single application session
Together, these settings ensure:
* Persistence survives device failover
* Persistence is honored across HTTP and FTP
Why the Other Options Are Incorrect
* A. Cookie persistence and session timeoutCookie persistence only applies to HTTP and does not address FTP or failover synchronization.
* B. Stateful failover and Network Failover detectionStateful failover applies to connection state, not persistence records, and does not link HTTP and FTP sessions.
* D. SYN-cookie insertion threshold and connection low-water markThese are DoS / SYN flood protection settings, unrelated to persistence or HA behavior.

NEW QUESTION # 37
A virtual server is listening at 10.10.1.100:any and has the following iRule associated with it:
when CLIENT_ACCEPTED { if {[TCP::local_port] equals 21 } { pool
ftppool } elseif {[TCP::local_port] equals 23 } { pool telnetpool }
If a user connects to 10.10.1.100 and port 22, which pool will receive the request?

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

Answer: C

NEW QUESTION # 38
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 be propagated next time a configuration change is made on the Active device.
- B. The change will take effect when Auto-Sync propagates the config to the HA pair.
- C. The change will be undone next time a configuration change is made on the Active device.
- D. The change will be undone when Auto-Sync propagates the config to the Standby device.

Answer: D

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 # 39
Active connections to pool members are unevenly distributed. The load balancing method is Least Connections (member). Priority Group Activation is disabled.
What is a potential cause of the uneven distribution? (Choose one answer)

- A. A persistence profile is applied
- B. SSL Profile Server is applied
- C. Incorrect load balancing method
- D. Priority Group Activation is disabled

Answer: A

Explanation:
With Least Connections (member), BIG-IP attempts to send new connections to the pool member with the fewest current connections. In a perfectly "stateless" scenario (no affinity), this often trends toward a fairly even distribution over time.
However, persistence overrides load balancing:
* When a persistence profile is applied, BIG-IP will continue sending a client (or client group) to the same pool member based on the persistence record (cookie / source address / SSL session ID, etc.).
* This means even if another pool member has fewer connections, BIG-IP may still select the persisted member to honor session affinity.
* The result can be uneven active connection counts, even though the configured load balancing method is Least Connections.

Why the other options are not the best cause:
* A. Priority Group Activation is disabledPriority Group Activation only affects selection when priority groups are configured; disabling it does not inherently create uneven distribution under Least Connections.
* B. SSL Profile Server is appliedA server-side SSL profile affects encryption to pool members, but it does not by itself cause skewed selection across pool members. (Skew could happen indirectly if members have different performance/latency, but that's not the primary, expected exam answer.)
* D. Incorrect load balancing methodLeast Connections is a valid method and does not itself explain unevenness unless something is overriding it (like persistence) or pool members are not all eligible.
Conclusion:
A persistence profile is the most common and expected reason that active connections become unevenly distributed, because persistence takes precedence over the Least Connections load-balancing decision.

NEW QUESTION # 40
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