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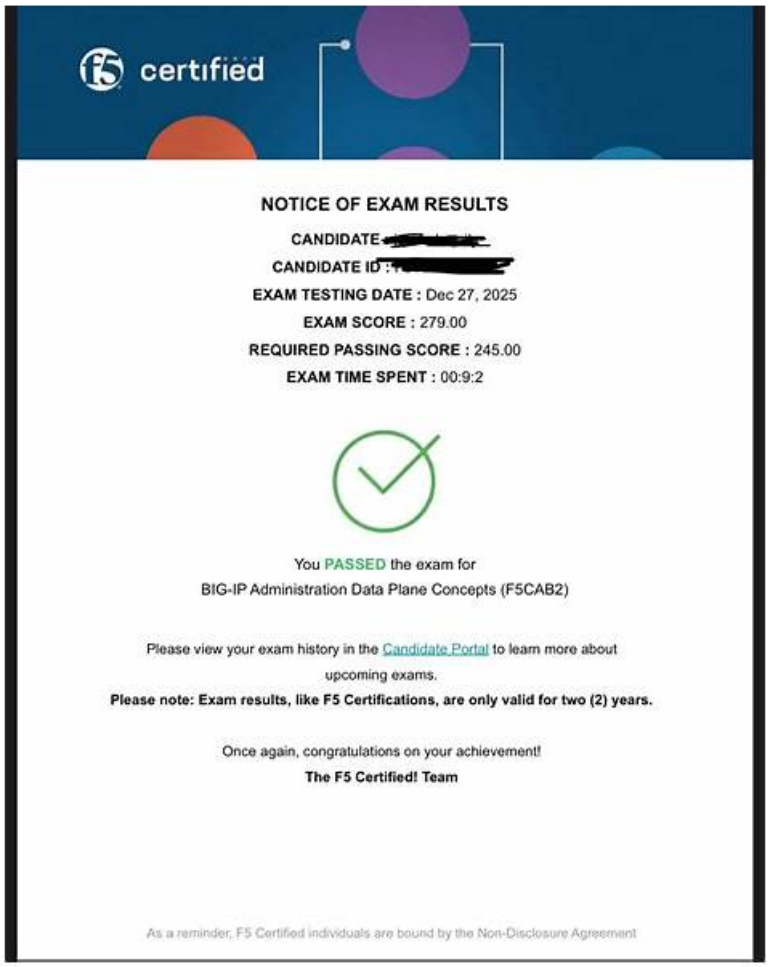

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F5 F5CAB2 Exam Syllabus Topics:

Topic	Details
Topic 1	• Explain high availability (HA) concepts: This domain addresses HA concepts including integrity methods, implementation approaches, and advantages of high availability configurations.
Topic 2	• Define ADC application objects: This domain covers ADC basics including application objects, load balancing methods, server selection, and key ADC features and benefits.
Topic 3	• Identify the different virtual server types: This domain covers BIG-IP virtual server types: Standard, Forwarding, Stateless, Reject, Performance Layer 4, and Performance HTTP.

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

NEW QUESTION # 13
The BIG-IP Administrator wants to provide quick failover between the F5 LTM devices that are configured in an HA Pair with a single traffic-group. The BIG-IP Administrator wants to implement the Mac Masquerade feature for this quick failover and run 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 of this, the BIG-IP Administrator must 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?

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

Answer: B

Explanation:
MAC Masquerade allows a traffic group to use a shared MAC address to speed up failover. When the system DB variable tm.macmasqaddr_per_vlan is enabled, the BIG-IP generates a unique MAC address for each VLAN by algorithmically modifying the base MAC address using theVLAN ID.
The calculation forVLAN 1501works as follows:
* Base MAC:The administrator set the base to 02:12:34:56:00:00.
* VLAN ID Conversion:The decimal VLAN ID (1501) must be converted into hexadecimal.
* $1501 \div 16 = 93$ remainder13(Din hex)
* $93 \div 16 = 5$ remainder13(Din hex)
* $5 \div 16 = 0$ remainder5
* Result: 1501 (Decimal) =05DD(Hex).
* Substitution:The BIG-IP replaces the last two octets of the base MAC address with the hexadecimal representation of the VLAN ID.
* Final Result:02:12:34:56:05:dd.

NEW QUESTION # 14
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. None. The request will be dropped.
- C. Unknown. The pool cannot be determined from the information provided.
- D. telnetpool

Answer: C

NEW QUESTION # 15
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:

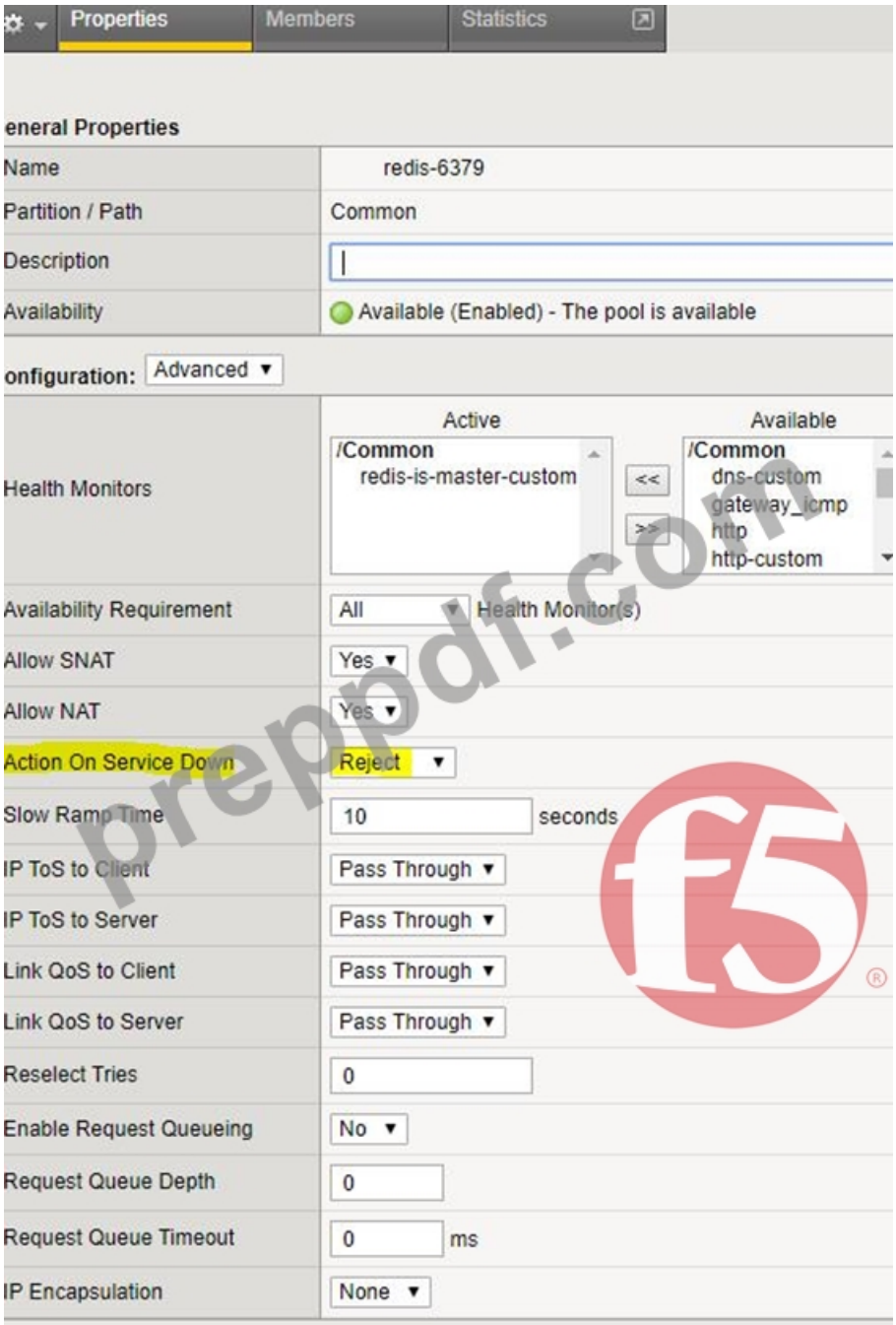
`tmsh modify /cm traffic-group traffic-group-1 mac 02:12:34:56:00:00`
However, the Network Operations team identifies an issue with using the same MAC address across multiple VLANs. As a result, the administrator enables Per-VLAN MAC Masquerade to ensure a unique MAC address per VLAN by running:
`tmsh 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:dd:05
- B. 02:12:34:56:05:dd
- C. 02:12:34:56:15:01
- D. 02:12:34:56:01:15

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 # 16
Refer to the exhibit.


Properties
Members
Statistics
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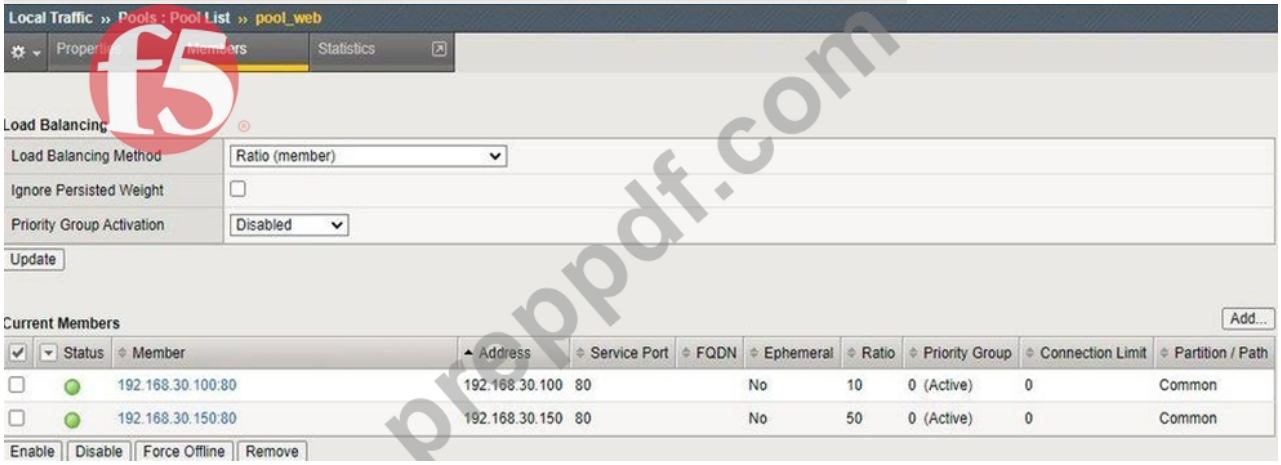
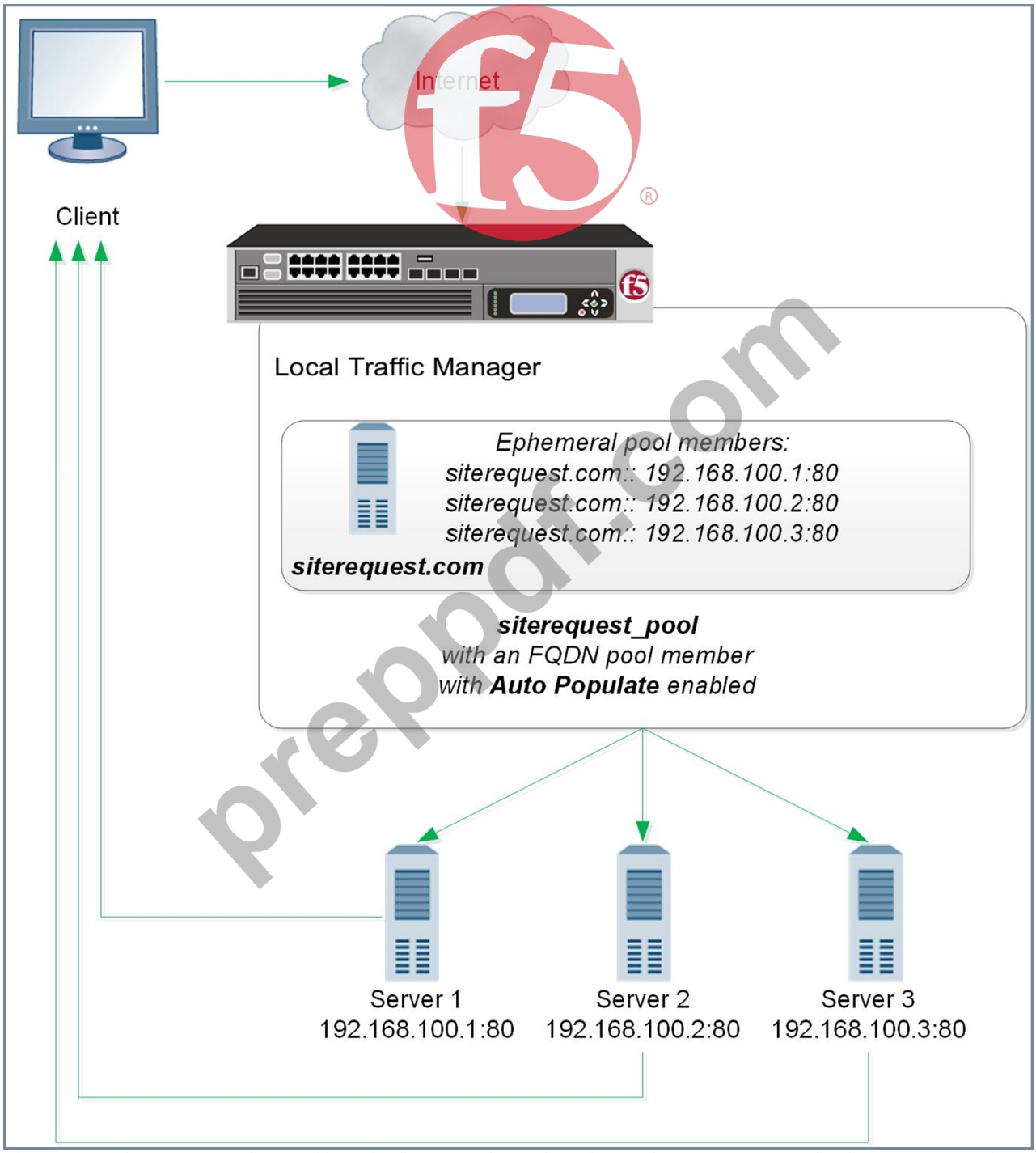
Name
redis-6379
Partition / Path
Common
Description
Availability
Available (Enabled) - The pool is available
onfiguration:
Advanced
Active
Available
/Common
redis-is-master-custom
/Common
dns-custom
gateway_icmp
http
http-custom
Health Monitors
<<
>>
Availability Requirement
All
Health Monitor(s)
Allow SNAT
Yes
Allow NAT
Yes
Action On Service Down
Reject
Slow Ramp Time
10
seconds
IP ToS to Client
Pass Through
IP ToS to Server
Pass Through
Link QoS to Client
Pass Through
Link QoS to Server
Pass Through
Reselect Tries
0
Enable Request Queueing
No
Request Queue Depth
0
Request Queue Timeout
0
ms
IP Encapsulation
None


Local Traffic » Pools : Pool List » pool_web
Statistics
Load Balancing
Load Balancing Method
Ratio (member)
Ignore Persisted Weight
Priority Group Activation
Disabled
Update
Current Members
Add...
Status
Member
Address
Service Port
FQDN
Ephemeral
Ratio
Priority Group
Connection Limit
Partition / Path
192.168.30.100:80
192.168.30.100
80
No
10
0 (Active)
0
Common
192.168.30.150:80
192.168.30.150
80
No
50
0 (Active)
0
Common
Enable
Disable
Force Offline
Remove



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

Answer: B

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

Answer: B

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 # 18

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