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The image shows a stack of three windows from a network configuration interface, likely a web-based management tool. The windows are arranged vertically, sharing a common header and footer.

Top Window: Network > Self IPs > self_vlan1033

Configuration

Name	self_vlan1033
Partition / Path	Common
IP Address	10.10.20.1
Netmask	255.255.255.0
VLAN / Tunnel	vlan_1033
Port Lockdown	Allow None
Traffic Group	<input type="checkbox"/> Inherit traffic group from current partition / path traffic-group-local-only (non-floating)
Service Policy	None

Middle Window: Network > VLANs : VLAN List > vlan_1033

General Properties

Name	vlan_1033
Partition / Path	Common
Description	
Tag	1033

Resources

Interfaces

Interface:	1.1
Tagging:	Select...
Add	

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Bottom Window: Network > Self IPs > self_vlan1033

Configuration

Name	self_vlan1033
Partition / Path	Common
IP Address	10.10.20.1
Netmask	255.255.255.0
VLAN / Tunnel	vlan_1033
Port Lockdown	Allow None
Traffic Group	<input type="checkbox"/> Inherit traffic group from current partition / path traffic-group-local-only (non-floating)
Service Policy	None

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F5 F5CAB2 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Identify the different virtual server types: This domain covers BIG-IP virtual server types: Standard, Forwarding, Stateless, Reject, Performance Layer 4, and Performance HTTP.
Topic 2	<ul style="list-style-type: none"> Explain the relationship between interfaces, trunks, VLANs, self-IPs, routes and their status statistics: This domain covers BIG-IP networking components including interfaces, trunks, VLANs, self-IPs, and routes, their dependencies and status, plus predicting traffic paths and egress IPs.
Topic 3	<ul style="list-style-type: none"> Determine expected traffic behavior based on configuration: This domain focuses on predicting traffic behavior based on persistence, processing order, object status, egress IPs, and connection rate limits.
Topic 4	<ul style="list-style-type: none"> Define ADC application objects: This domain covers ADC basics including application objects, load balancing methods, server selection, and key ADC features and benefits.
Topic 5	<ul style="list-style-type: none"> Explain high availability (HA) concepts: This domain addresses HA concepts including integrity methods, implementation approaches, and advantages of high availability configurations.

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Quiz 2026 Efficient F5 F5CAB2 New Braindumps Ebook

The F5 F5CAB2 desktop practice exam software is customizable and suits the learning needs of candidates. A free demo of the BIG-IP Administration Data Plane Concepts (F5CAB2) (F5CAB2) desktop software is available for sampling purposes. You can change F5 F5CAB2 Practice Exam's conditions such as duration and the number of questions. This simulator creates a BIG-IP Administration Data Plane Concepts (F5CAB2) (F5CAB2) real exam environment that helps you to get familiar with the original test.

F5 BIG-IP Administration Data Plane Concepts (F5CAB2) Sample Questions (Q55-Q60):

NEW QUESTION # 55

When using the setup utility to configure a redundant pair, you are asked to provide a "Failover Peer IP". Which address is this?

- A. an address of the other system in its management network
- B. an address of the other system in a redundant pair configuration**
- C. an address on the current system used to initiate mirroring and network failover heartbeat messages
- D. an address on the current system used to listen for failover messages from the partner BIG-IP

Answer: B

NEW QUESTION # 56

A BIG-IP Administrator has a cluster of devices.

What should the administrator do after creating a new Virtual Server on device 1? (Choose one answer)

- A. Create a new virtual server on device 2
- B. Synchronize the settings of the group to device 1

- C. Create a new cluster on device 1
- D. **Synchronize the settings of device 1 to the group**

Answer: D

NEW QUESTION # 57

A BIG-IP is configured with a pool member located on a different subnet that is not local to the BIG-IP. To ensure that the return traffic from the pool member is sent to the client through the BIG-IP, a Source NAT (SNAT) is used and configured for SNAT Automap. The BIG-IP has a default gateway on the external VLAN, a floating and non-floating self-IP address on each VLAN, and a management address. Which IP address will the BIG-IP use as the source address for the traffic to the pool member when client traffic is sent through the virtual server?

- A. The source address will be the non-floating self-IP address on the egress VLAN.
- B. **The source address will be the floating self-IP address on the egress VLAN.**
- C. The source address will be the first address available in the list of self-IPs.
- D. The source address will be the management IP address.

Answer: B

Explanation:

SNAT Automap is a feature that automatically selects a self-IP address to use as the source address for translated packets. The selection logic follows a strict hierarchy to ensure that traffic is routable back to the BIG-IP:

* **Egress VLAN Priority:** The BIG-IP first looks at the VLAN through which the traffic is exiting toward the pool member (the egress VLAN).

* **Floating Self-IP Preference:** If the egress VLAN has a floating self-IP address, the BIG-IP will always prefer it for SNAT Automap. This is critical for High Availability (HA) because, during a failover, the floating IP moves to the new active device, allowing existing connections to be maintained or correctly timed out.

* **Non-Floating Fallback:** If no floating self-IP is available on the egress VLAN, the system will use a floating self-IP from a different VLAN. If no floating IPs exist at all, it will then fall back to the non-floating self-IP.

Key Data Plane Concept:

The management IP is never used for data plane traffic. In this scenario, since the administrator has configured a floating self-IP, that specific address becomes the source for all SNAT Automap traffic leaving that VLAN to ensure symmetric routing during HA events.

NEW QUESTION # 58

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. **02:12:34:56:05:dd**
- C. 02:12:34:56:dd:05
- 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 # 59

Which of the following lists the order of preference from most preferred to least preferred when BIG-IP processes and selects a virtual server? (Choose one answer)

- A. Source host address → Service port → Destination host address
- B. Service port → Destination host address → Source host address
- **C. Destination host address → Source host address → Service port**

Answer: C

Explanation:

The BIG-IP system uses a specific precedence algorithm to determine which virtual server (listener) should process an incoming packet when multiple virtual servers might match the criteria. Since BIG-IP version 11.3.0, the system evaluates three primary factors in a fixed order of importance:

Destination Address: The system first looks for the most specific destination match. A "Host" address (mask /32) is preferred over a "Network" address (mask /24, /16, etc.), which is preferred over a "Wildcard" (0.0.0.0/0).

Source Address: If multiple virtual servers have identical destination masks, the system then evaluates the source address criteria. Again, a specific source host match is preferred over a source network or a wildcard source.

Service Port: Finally, if both destination and source specifications are equal, the system checks the port. A specific port match (e.g., 80) is preferred over a wildcard port (e.g., or 0).

Following this logic, a virtual server configured with a specific destination host, a specific source host, and a specific service port represents the highest level of specificity and thus the highest preference.

NEW QUESTION # 60

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