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F5 BIG-IP Administration Data Plane Concepts (F5CAB2) Sample Questions (Q40-Q45):

NEW QUESTION # 40
A BIG-IP Administrator is informed that traffic on interface 1.1 is expected to increase beyond the maximum bandwidth capacity of the link. There is a single VLAN on the interface.
What should the BIG-IP Administrator do to increase the total available bandwidth? (Choose one answer)

- A. Assign two interfaces to the VLAN
- B. Increase the MTU on the VLAN using interface 1.1
- C. Set the media speed of interface 1.1 manually
- D. Create a trunk object with two interfaces

Answer: D

Explanation:
Comprehensive and Detailed Explanation (BIG-IP Administration - Data Plane Concepts):
On BIG-IP systems, physical interface bandwidth is fixed by the link speed (for example, 1GbE or 10GbE). When traffic demand exceeds the capacity of a single interface, BIG-IP provides link aggregation through trunks.
Key concepts involved:
Interfaces

A single physical interface (such as 1.1) is limited to its negotiated link speed. You cannot exceed this capacity through software tuning alone.
Trunks (Link Aggregation)
A trunk combines multiple physical interfaces into a single logical interface.
BIG-IP supports LACP and static trunks.
Traffic is distributed across member interfaces, increasing aggregate bandwidth and providing redundancy.
VLANs are then assigned to the trunk, not directly to individual interfaces.
Why option B is correct:
Creating a trunk with two interfaces allows BIG-IP to use both physical links simultaneously.
This increases total available bandwidth (for example, two 10Gb interfaces → up to 20Gb aggregate capacity).
This is the documented and supported method for scaling bandwidth on BIG-IP.
Why the other options are incorrect:
A . Increase the MTU
MTU changes affect packet size and efficiency, not total bandwidth capacity.
C . Assign two interfaces to the VLAN
BIG-IP does not support assigning a VLAN to multiple interfaces directly. VLANs must be associated with one interface or one trunk.
D . Set the media speed manually
Media speed can only be set up to the physical capability of the interface and connected switch port. It cannot exceed the hardware limit.
Conclusion:
To increase total available bandwidth on BIG-IP when a single interface is insufficient, the administrator must create a trunk object with multiple interfaces and move the VLAN onto the trunk. This aligns directly with BIG-IP data plane design and best practices.

NEW QUESTION # 41
A BIG-IP system receives UDP traffic from a specific source. The administrator wants the traffic to be forwarded, not dropped or rejected. Which virtual server type should be used? (Choose one answer)

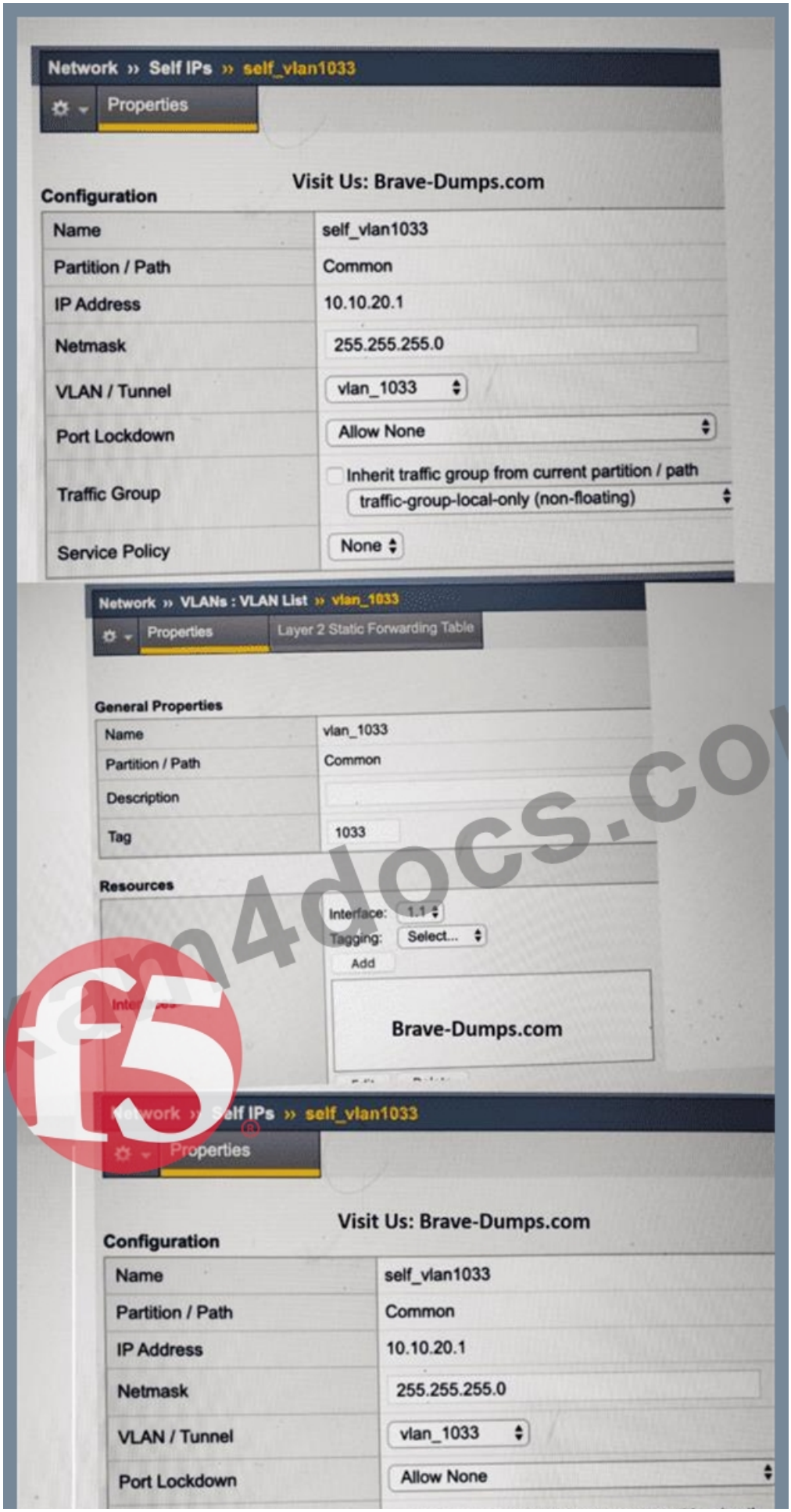
- A. Standard
- B. Block
- C. Reject
- D. Drop

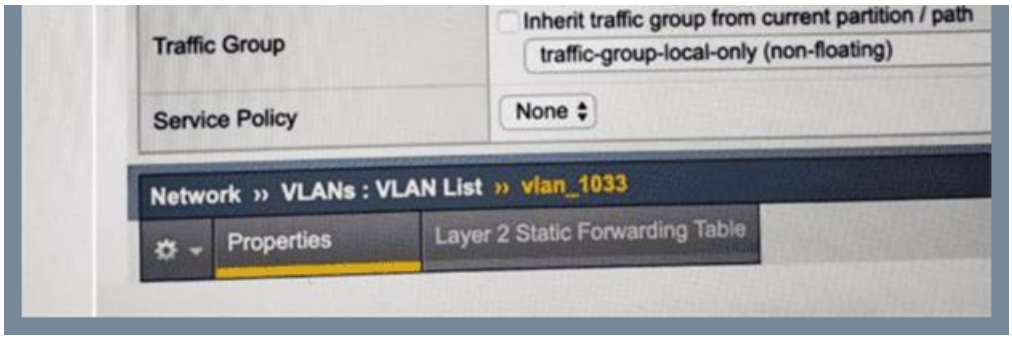
Answer: A

Explanation:
Comprehensive and Detailed Explanation From BIG-IP Administration Data Plane Concepts documents:
BIG-IP virtual server types define how traffic is handled at the data plane when it matches a virtual server's destination address and service port.
According to BIG-IP Administration Data Plane Concepts:
Standard virtual server
The default and most commonly used type
Accepts client connections and forwards traffic to pool members
Supports both TCP and UDP traffic
Allows full use of profiles (UDP, FastL4, persistence, etc.) and iRules Required when the goal is to process and pass traffic through BIG-IP Drop virtual server Silently discards matching traffic No response is sent to the client Reject virtual server Actively rejects traffic by sending an error response For UDP, BIG-IP may send an ICMP unreachable message Block virtual server Used to block traffic at the virtual server level Traffic is neither forwarded nor processed by pools In this scenario:
The administrator explicitly wants the UDP traffic to be forwarded
Only a Standard virtual server forwards traffic to a pool or next-hop destination Why the Other Options Are Incorrect:
A . Drop - Traffic is silently discarded
B . Reject - Traffic is actively rejected
C . Block - Traffic is blocked and not forwarded
Key Data Plane Concept Reinforced:
When traffic must be accepted and forwarded-regardless of whether it is TCP or UDP-the BIG-IP administrator must use a Standard virtual server, which is the only virtual server type designed for normal application traffic processing.

NEW QUESTION # 42

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

Answer: C

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 # 43
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. Create a new cluster on device 1
- C. Synchronize the settings of device 1 to the group
- D. Synchronize the settings of the group to device 1

Answer: C

NEW QUESTION # 44
A standard virtual server has been associated with a pool with multiple members. Assuming all other settings are left at their defaults, which statement is always true concerning traffic processed by the virtual server?

- A. The server IP address is unchanged between the client side connection and the serverside connection.
- B. The client IP address is unchanged between the client side connection and the serverside connection.
- C. The TCP ports used in the client side connection are the same as the TCP ports serverside connection.
- D. The IP addresses used in the clientside connection are the same as the IP addresses used in the serverside connection.

Answer: B

NEW QUESTION # 45
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