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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">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	<ul style="list-style-type: none">their statusstatistics: 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 4	<ul style="list-style-type: none">Explain the relationship between interfaces, trunks, VLANs, self-IPs, routes and
Topic 5	<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 connectionrate limits.

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F5 BIG-IP Administration Data Plane Concepts (F5CAB2) Sample Questions (Q20-Q25):

NEW QUESTION # 20

Refer to the exhibit.

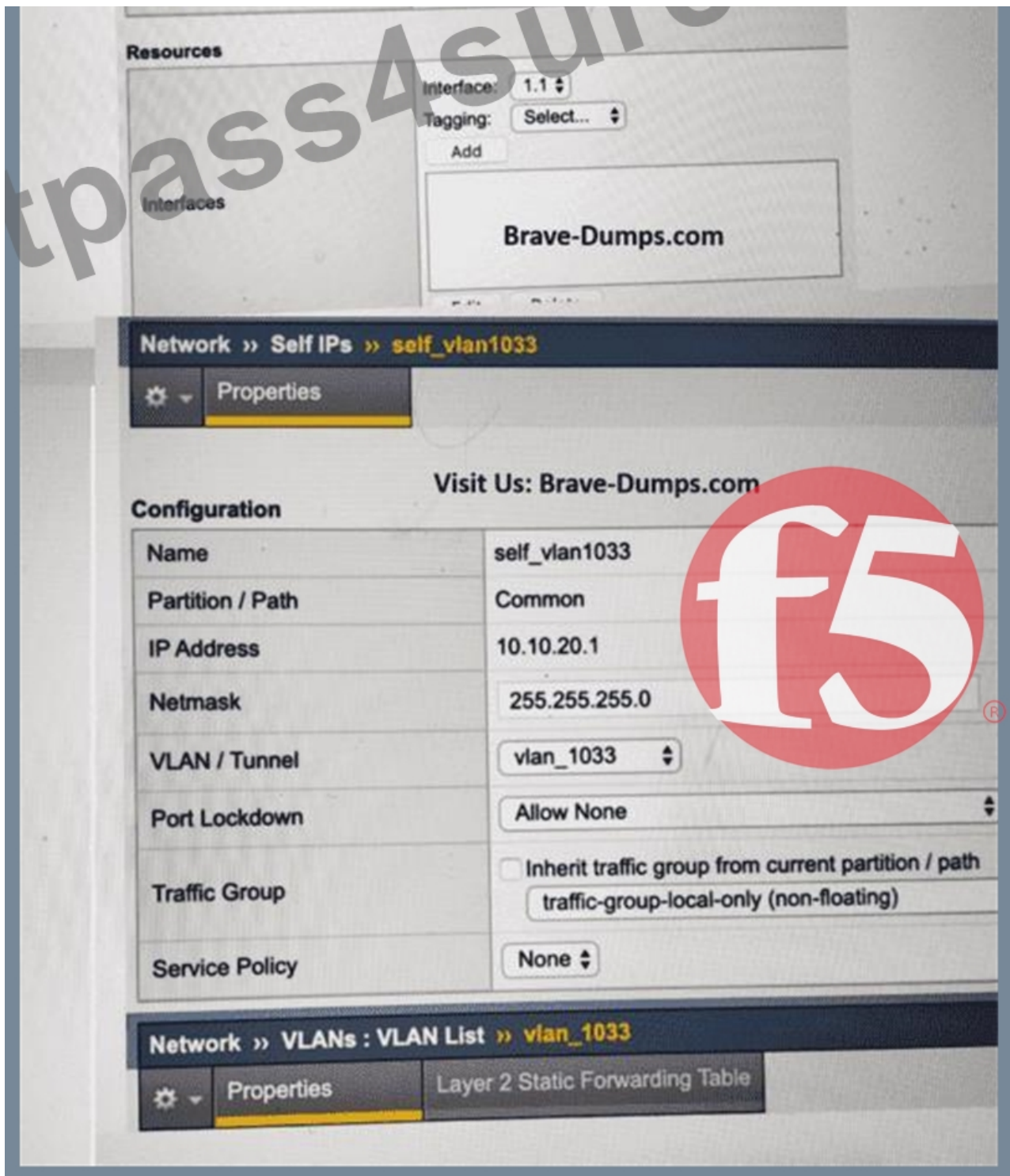
The image shows two screenshots of the F5 BIG-IP configuration interface. The top screenshot displays the configuration for a self-IP named 'self_vlan1033'. The bottom screenshot displays the configuration for a VLAN named 'vlan_1033'.

Configuration for self_vlan1033:

Field	Value
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

Configuration for vlan_1033:

Field	Value
Name	vlan_1033
Partition / Path	Common
Description	
Tag	1033



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:

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 AllPort 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 enabledAuto Last Hop affects return traffic routing for asymmetric paths. It does not fix missing Layer 2 connectivity.

- * D. Create a Floating Self IP addressFloating 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 # 21

A BIG-IP Administrator configures remote authentication and needs to make sure that users can still login even when the remote authentication server is unavailable. Which action should the BIG-IP Administrator take in the remote authentication configuration to meet this requirement?

- A. Configure a second remote user directory
- B. Set partition access to "All"
- C. Enable the Fallback to Local option
- D. Configure a remote role group

Answer: C

Explanation:

The BIG-IP system supports various remote authentication methods like LDAP, Active Directory, and RADIUS.

- * Fallback to Local: This is a specific security and availability feature within the System > Users > Authentication configuration.

- * Redundancy: When "Fallback to Local" is enabled, the BIG-IP will first attempt to authenticate a user against the configured remote server. If that remote server is unreachable or fails to respond, the system will then check its internal Local User database for credentials.

- * Administrative Access: This is standard practice for the "admin" or emergency accounts to ensure the system remains accessible even if the corporate directory service (e.g., AD) is offline.

NEW QUESTION # 22

An application is configured so that the same pool member must be used for an entire session, as well as for HTTP and FTP traffic.

A user reports that a session has terminated, and the user must restart the session. The BIG-IP Administrator determines that the active BIG-IP device failed over to the standby BIG-IP device.

Which configuration settings should the BIG-IP Administrator verify to ensure proper behavior when BIG-IP failover occurs?

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

Answer: D

Explanation:

In this scenario, two specific High Availability and Persistence requirements must be met to ensure session continuity during a failover.

- * Persistence Mirroring: By default, persistence records (which map a client to a specific server) exist only on the memory of the

active BIG-IP. If a failover occurs, the standby unit has no knowledge of these sessions and will re-load-balance the client, likely to a different server. Enabling Persistence Mirroring ensures that the persistence table is synchronized in real-time to the standby peer.

* Match Across Services: The requirement specifies that the session must persist across both HTTP and FTP. These are different Virtual Servers (and likely different ports). The Match Across Services setting in the persistence profile allows the BIG-IP to use the same persistence record for any Virtual Server that shares the same IP address and pool, regardless of the service port.

NEW QUESTION # 23

A BIG-IP Administrator needs to apply a health monitor for a pool of database servers named DB_Pool that uses TCP port 1521. Where should the BIG-IP Administrator apply this monitor?

- A. Local Traffic > Pools > DB Pool > Properties
- B. Local Traffic > Pools > De Pool > Members
- C. Local Traffic > Nodes > Default Monitor
- D. Local Traffic > Profiles » Protocol > TCP

Answer: A

NEW QUESTION # 24

A BIG-IP Administrator needs to connect a BIG-IP system to two upstream switches to provide external network resilience. The network engineer instructs the administrator to configure interface binding with LACP. Which configuration should the administrator use? (Choose one answer)

- A. A virtual server with an LACP profile and the switches' management IPs as pool members.
- B. A Trunk containing an interface connected to each switch.
- C. A Trunk listing the allowed VLAN IDs and MAC addresses configured on the switches.
- D. A virtual server with an LACP profile and the interfaces connected to the switches as pool members.

Answer: B

Explanation:

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

In BIG-IP architecture, link aggregation and redundancy at Layer 2 are implemented using Trunks, not virtual servers or pools.

According to BIG-IP Administration Data Plane Concepts:

Interfaces are the physical network ports on the BIG-IP device

A Trunk is a logical grouping of multiple interfaces

Trunks can be configured to use LACP (Link Aggregation Control Protocol) to:

Provide link redundancy

Increase aggregate bandwidth

Allow automatic detection of link failures

VLANs are then assigned to the trunk, not directly to individual interfaces, once aggregation is in place

Correct Design for the Scenario:

To connect BIG-IP to two upstream switches with LACP:

One physical interface from BIG-IP connects to Switch A

Another physical interface from BIG-IP connects to Switch B

Both interfaces are placed into the same trunk

LACP is enabled on the trunk and on the switches

This configuration allows:

Traffic to continue flowing if one interface or switch fails

Proper LACP negotiation between BIG-IP and the upstream switches

Clean separation of responsibilities (Layer 2 handled by trunking, Layer 4-7 by virtual servers)

Why Option D Is Correct:
A Trunk containing an interface connected to each switch is exactly how BIG-IP implements LACP-based interface binding. The trunk handles link state, load distribution, and failover at the data plane.

Why the Other Options Are Incorrect:

A & B - Virtual servers operate at Layers 4-7 and have nothing to do with physical link aggregation or LACP
C - VLAN IDs and MAC addresses are not configured inside a trunk definition; trunks aggregate interfaces, and VLANs are applied to trunks

Key Data Plane Concept Reinforced:

On BIG-IP systems, LACP is always configured on a Trunk, which aggregates physical interfaces to provide Layer 2 resiliency and bandwidth aggregation. Virtual servers and pools are not involved in physical interface binding.

NEW QUESTION # 25

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