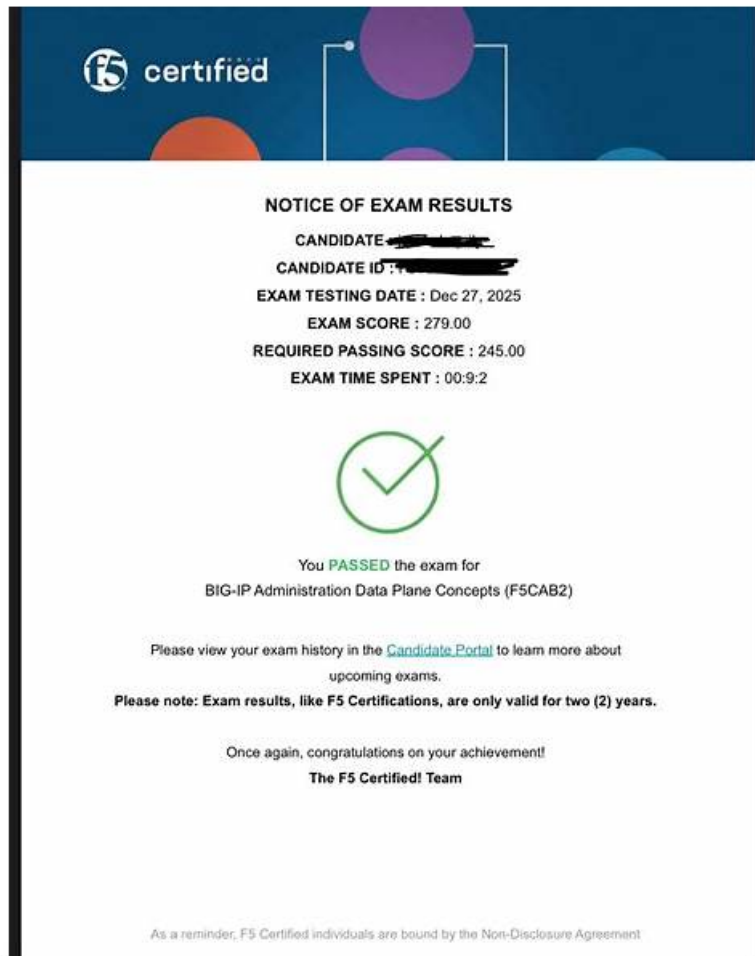


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## F5 F5CAB2 Exam Syllabus Topics:

| Topic   | Details  |
|---------|--|
| Topic 1 | <ul style="list-style-type: none"><li>• their status</li><li>• 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.</li></ul> |
| Topic 2 | <ul style="list-style-type: none"><li>• Explain the relationship between interfaces, trunks, VLANs, self-IPs, routes and</li></ul>   |
| Topic 3 | <ul style="list-style-type: none"><li>• 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</li><li>• rate limits.</li></ul>    |

## F5 BIG-IP Administration Data Plane Concepts (F5CAB2) Sample Questions (Q64-Q69):

### NEW QUESTION # 64

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 on the current system used to listen for failover messages from the partner BIG-IP
- **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 of the other system in its management network

**Answer: B**

Explanation:

When establishing a redundant pair, each device must know where to send its health heartbeats and sync data.

\* The Peer IP: The Failover Peer IP is the IP address belonging to the other BIG-IP device in the HA pair.

This is typically a self-IP on a dedicated "HA" or "Internal" VLAN, or the Management IP.

\* Purpose: It identifies the destination for the "Heartbeat" (the "Are you alive?" check).

\* Setup Context: During the initial setup, you tell Device A to look for Device B at its "Failover Peer IP," and you tell Device B to look for Device A at its respective "Failover Peer IP."

### NEW QUESTION # 65

Which three iRule events are likely to be seen in iRules designed to select a pool for load balancing? (Choose three.)

- A. SERVER\_CONNECTED
- **B. HTTP\_REQUEST**
- **C. CLIENT\_DATA**
- D. SERVER\_DATA
- E. SERVER\_SELECTED
- F. HTTP\_RESPONSE
- **G. CLIENT\_ACCEPTED**

**Answer: B,C,G**

### NEW QUESTION # 66

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. Synchronize the settings of the group to device 1

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

**Answer: C**

Explanation:

In a BIG-IP device service cluster, configuration objects such as virtual servers, pools, profiles, and iRules are maintained through configuration synchronization (config-sync).

Key BIG-IP concepts involved:

- \* Device Service Cluster (DSC) A cluster is a group of BIG-IP devices that share configuration data. One device is typically used to make changes, which are then synchronized to the rest of the group.
- \* Config-Sync Direction Matters
- \* Changes are made on a local device
- \* Those changes must be pushed to the group
- \* The correct operation is "Sync Device to Group"

Why C is correct:

- \* The virtual server was created only on device 1
- \* Other devices in the cluster do not yet have this object
- \* To propagate the new virtual server to all cluster members, the administrator must synchronize device 1 to the group

Why the other options are incorrect:

- \* A. Synchronize the settings of the group to device 1 This would overwrite device 1's configuration with the group's existing configuration and may remove the newly created virtual server.
- \* B. Create a new cluster on device 1 The cluster already exists. Creating a new cluster is unnecessary and disruptive.
- \* D. Create a new virtual server on device 2 This defeats the purpose of centralized configuration management and risks configuration drift.

Conclusion:

After creating a new virtual server on a BIG-IP device that is part of a cluster, the administrator must synchronize the configuration from that device to the group so all devices share the same ADC application objects.

## NEW QUESTION # 67

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

**Answer: D**

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 the VLAN ID.

The calculation for VLAN 1501 works 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.
- \*  $1501 \div 16 = 93$  remainder 13 (D in hex)
- \*  $93 \div 16 = 5$  remainder 13 (D in hex)
- \*  $5 \div 16 = 0$  remainder 5
- \* 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 # 68

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 undone 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 propagated 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 # 69

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