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## F5 BIG-IP Administration Data Plane Concepts (F5CAB2) 認定 F5CAB2 試験問題 (Q14-Q19):

### 質問 # 14

A network administrator is planning to add a trunk to a single BIG-IP system. What does a trunk provide?  
(Pick the 2 correct responses below)

- A. A trunk adds more bandwidth to the network connection.
- B. A trunk adds link redundancy to the network connection.
- C. A trunk adds use of VoIP traffic on the network connection.
- D. A trunk adds use of tagged VLANs on the network connection.

正解: A、B

解説:

In the F5 BIG-IP ecosystem, a trunk is a logical grouping of two or more physical interfaces that the system treats as a single data path. This configuration is based on the Link Aggregation Control Protocol (LACP) or static link aggregation.

Trunks provide two primary benefits to the data plane:

\* Increased Bandwidth: By aggregating multiple physical interfaces (e.g., combining two 10Gbps interfaces), the aggregate throughput of the logical connection is increased. This allows the BIG-IP to handle higher traffic volumes than a single interface could support.

\* Link Redundancy: Trunks provide high availability at the physical layer. If one physical interface within the trunk fails or the cable is disconnected, the BIG-IP system automatically redistributes traffic across the remaining active interfaces in the trunk. This prevents a single cable or port failure from causing a network outage.

Why the other options are incorrect:

\* Option C: While VLAN tags are often used on trunks, the ability to use tagged VLANs is a property of the VLAN configuration and 802.1Q tagging, not the trunk itself. A single interface can support tagged VLANs without being part of a trunk.

\* Option D: Trunks are agnostic to the type of application traffic (such as VoIP) passing through them.

They operate at Layer 2 to provide a reliable pipe for any Layer 3+ traffic.

### 質問 # 15

An ecommerce company is experiencing latency issues with online shops during Black Friday's peak season.

The BIG-IP Administrator detects an overall high CPU load on the BIG-IP device and wants to move the top utilized Virtual Servers to a dedicated BIG-IP device. Where should the BIG-IP Administrator determine the problematic Virtual Servers?

(Choose one answer)

- A. Local Traffic > Network Map
- B. System > Platform
- C. Statistics > Module Statistics > Local Traffic > Virtual Servers
- D. Local Traffic > Virtual Servers > Virtual Server List

正解: C

解説:

When troubleshooting performance and latency issues on BIG-IP, especially under peak load conditions, it is critical to identify which Virtual Servers are consuming the most resources. This is a core data plane analysis task.

BIG-IP provides multiple views of configuration and status, but only certain areas expose real-time and historical traffic statistics that correlate directly with CPU usage and throughput.

Why Option C Is Correct:

Statistics > Module Statistics > Local Traffic > Virtual Servers provides:

\* Real-time and cumulative statistics per Virtual Server

\* Metrics such as:

\* Bits in / Bits out

\* Packets in / Packets out

\* Current connections

- \* Connection rate
  - \* Total requests
  - \* The ability to identify high-traffic or high-connection Virtual Servers, which are the most likely contributors to elevated CPU utilization. These statistics allow the administrator to objectively determine which Virtual Servers are the top consumers of system resources and therefore good candidates for migration to a dedicated BIG-IP device.
- Why the Other Options Are Incorrect:
- \* A. Local Traffic > Virtual Servers > Virtual Server List
    - \* Primarily a configuration view
    - \* Does not provide sufficient performance or utilization statistics to identify CPU-heavy Virtual Servers
  - \* B. System > Platform
    - \* Displays hardware-level information such as CPU cores, memory, disk, and platform type
    - \* Does not break down utilization by Virtual Server
  - \* D. Local Traffic > Network Map
    - \* Provides a logical topology view of Virtual Servers, pools, and pool members
    - \* Useful for understanding relationships, but not for identifying high-utilization Virtual Servers
- Key Data Plane Concept Reinforced: To diagnose performance problems and plan traffic redistribution, BIG-IP administrators must rely on Module and object-level statistics, not configuration screens. The Virtual Server statistics view is the authoritative location for identifying traffic hotspots that directly impact CPU and latency during peak events such as Black Friday.

#### 質問 # 16

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

正解: A

#### 質問 # 17

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

正解: A

解説:

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.

### 質問 # 18

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

正解: C

解説:

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.

### 質問 # 19

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