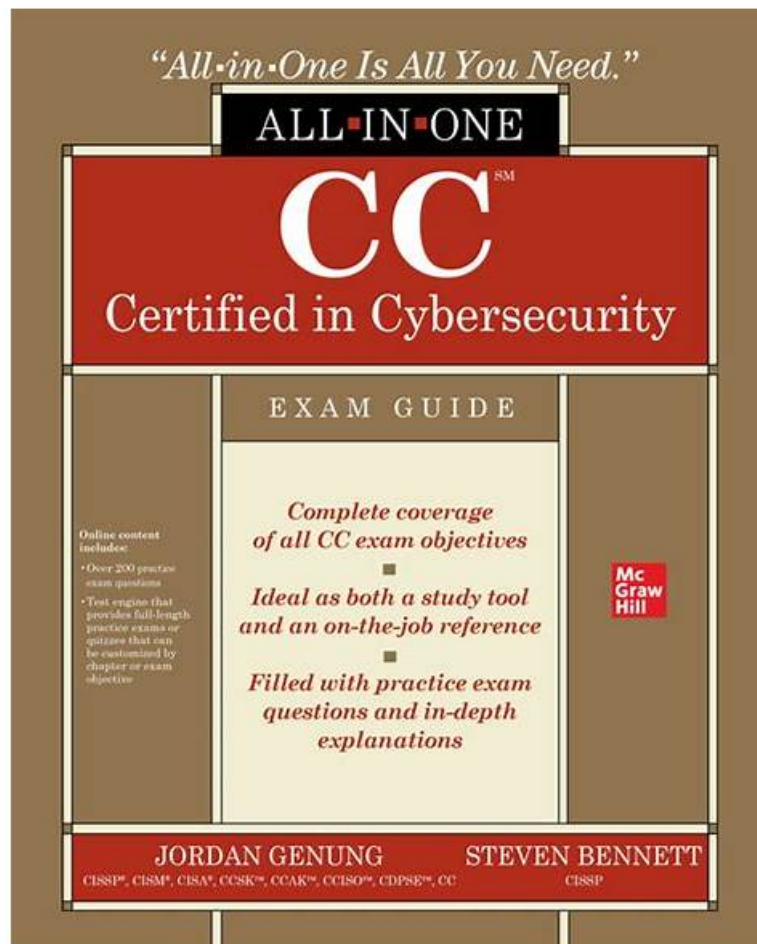


A Field Guide to F5CAB2 All-in-One Exam Guide



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F5 F5CAB2 Exam Syllabus Topics:

Topic	Details
Topic 1	<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.
Topic 2	<ul style="list-style-type: none"> Explain the relationship between interfaces, trunks, VLANs, self-IPs, routes and
Topic 3	<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 4	<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.

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F5 BIG-IP Administration Data Plane Concepts (F5CAB2) Sample Questions (Q38-Q43):

NEW QUESTION # 38

To increase the available bandwidth of an existing trunk, the BIG-IP Administrator plans to add additional interfaces. Which command should the BIG-IP Administrator run from within the bash shell? (Choose one answer)

- A. `tmsh create /sys trunk trunk_A interfaces add {1.3 1.4}`
- B. `tmsh create /net trunk trunk_A interfaces add {1.3 1.4}`
- C. `tmsh modify /net trunk trunk_A interfaces add {1.3 1.4}`
- D. `tmsh modify /sys trunk trunk_A interfaces add {1.3 1.4}`

Answer: C

Explanation:

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

In BIG-IP, a trunk is a Layer 2 network object used to aggregate multiple physical interfaces into a single logical link. This aggregation provides increased bandwidth and link resiliency, commonly in conjunction with LACP.

Key concepts that apply here:

Trunks are managed under the `/net trunk tmsh` hierarchy

Physical interfaces are added or removed using the `modify` command

The `create` command is used only when defining a brand-new trunk, not when updating an existing one Because the trunk already exists and the goal is to add interfaces, the correct operation is:

```
tmsh modify /net trunk trunk_A interfaces add {1.3 1.4}
```

This command:

Modifies the existing trunk named `trunk_A`

Adds interfaces 1.3 and 1.4 to the trunk

Immediately increases available bandwidth and redundancy

Why the Other Options Are Incorrect

B uses the `/sys` hierarchy, which is not used for trunks

C attempts to create a trunk that already exists

D uses an incorrect hierarchy and an incorrect operation

NEW QUESTION # 39

What type of virtual server should be used to load balance UDP traffic without considering previous connections?

- A. Forwarding
- B. Stateless
- C. Standard
- D. Reject

Answer: B

NEW QUESTION # 40

Refer to the exhibit.

⚙️ Properties Members Statistics ↗️	
General Properties	
Name	redis-6379
Partition / Path	Common
Description	<input type="text"/>
Availability	<input checked="" type="radio"/> Available (Enabled) - The pool is available
Configuration: Advanced ▾	
Health Monitors	<div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid #ccc; padding: 5px; width: 45%;"> <p style="text-align: center; margin: 0;">Active</p> <p>/Common redis-is-master-custom</p> </div> <div style="text-align: center; margin: 0;"> << >> </div> <div style="border: 1px solid #ccc; padding: 5px; width: 45%;"> <p style="text-align: center; margin: 0;">Available</p> <p>/Common dns-custom gateway_icmp http http-custom</p> </div> </div>
Availability Requirement	All ▾ Health Monitor(s)
Allow SNAT	Yes ▾
Allow NAT	Yes ▾
Action On Service Down	Reject ▾
Slow Ramp Time	<input type="text" value="10"/> seconds
IP ToS to Client	Pass Through ▾
IP ToS to Server	Pass Through ▾
Link QoS to Client	Pass Through ▾
Link QoS to Server	Pass Through ▾
Reselect Tries	<input type="text" value="0"/>
Enable Request Queueing	No ▾
Request Queue Depth	<input type="text" value="0"/>
Request Queue Timeout	<input type="text" value="0"/> ms
IP Encapsulation	None ▾

Local Traffic >> Pools: Pool List >> pool_web

Properties Members Statistics

Load Balancing

Load Balancing Method: Ratio (member)

Ignore Persisted Weight:

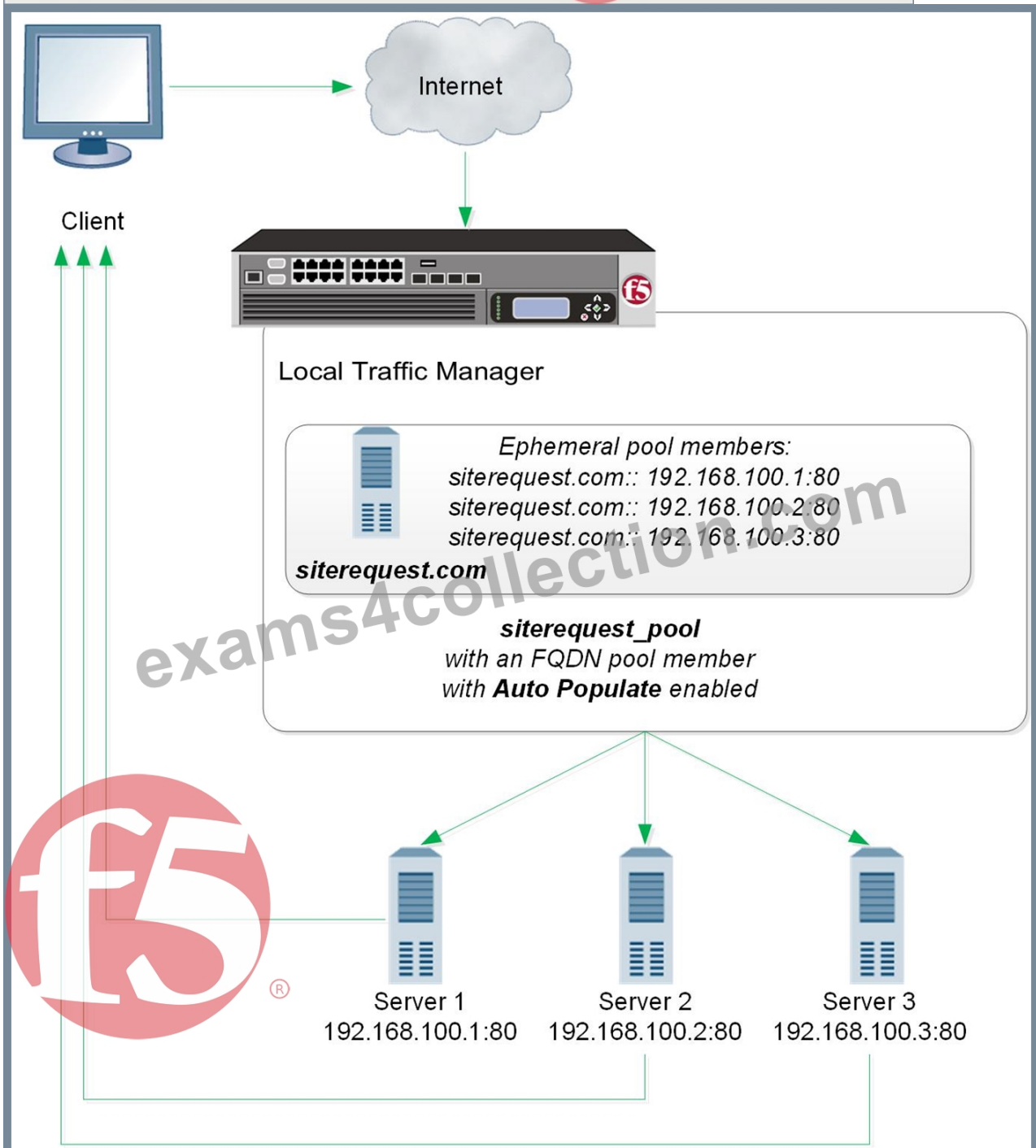
Priority Group Activation: Disabled

Update

Current Members

✓	Status	Member	Address	Service Port	FQDN	Epoch	Weight	Ratio	Priority Group	Connection Limit	Partition / Path
<input type="checkbox"/>	●	192.168.30.100:80	192.168.30.100	80	No	10	0	(Active)	0	0	Common
<input type="checkbox"/>	●	192.168.30.150:80	192.168.30.150	80	No	50	0	(Active)	0	0	Common

Enable Disable Force Offline Remove



The BIG-IP Administrator needs to avoid overloading any of the pool members with connections when they become active. What should the BIG-IP Administrator configure to meet this requirement? (Choose one answer)

- A. Action On Service Down to Reselect

- B. Different Ratio for each member
- C. Slow Ramp Time to the Pool
- D. Same Priority Group to each member

Answer: C

Explanation:

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

This question focuses on connection behavior when pool members transition from down to up, which is a classic data plane consideration in BIG-IP environments.

What problem is being solved?

When a pool member:

Recovers from a failure

Is enabled after maintenance

Transitions from inactive to active

...it can suddenly receive a large burst of new connections, especially when using load-balancing methods such as Least Connections. This sudden surge can overload the server.

Why Slow Ramp Time is the correct solution:

Slow Ramp Time is a pool-level setting that:

Gradually increases the number of connections sent to a newly available pool member Prevents sudden spikes in traffic Allows the server to warm up (application cache, JVM, DB connections, etc.) From BIG-IP Administration Data Plane Concepts:

Slow Ramp Time controls the rate at which BIG-IP increases load to a pool member that has just become available During the ramp period, BIG-IP artificially increases the member's connection count, making it appear "busier" and therefore less attractive for new connections This directly satisfies the requirement to avoid overloading pool members when they become active.

Why the Other Options Are Incorrect:

B . Different Ratio for each member

Ratios control relative distribution under normal operation

They do not prevent a sudden surge when a member becomes active

C . Action On Service Down to Reselect

Controls persistence behavior when a member goes down

Has no impact on connection ramp-up when a member comes back online

D . Same Priority Group to each member

Affects failover logic between priority groups

Does not control connection rate or ramp-up behavior

Key Data Plane Concept Reinforced:

To protect backend servers during recovery events, BIG-IP provides Slow Ramp Time, ensuring graceful reintroduction of traffic and preventing connection storms that can occur during high-load scenarios.

NEW QUESTION # 41

Refer to the exhibit.



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

Network » VLANs : VLAN List » **vlan_1033**

Properties Layer 2 Static Forwarding Table

General Properties

Name	vlan_1033
Partition / Path	Common
Description	
Tag	1033

Resources

Interface: 1.1

Tagging: Select...

Add

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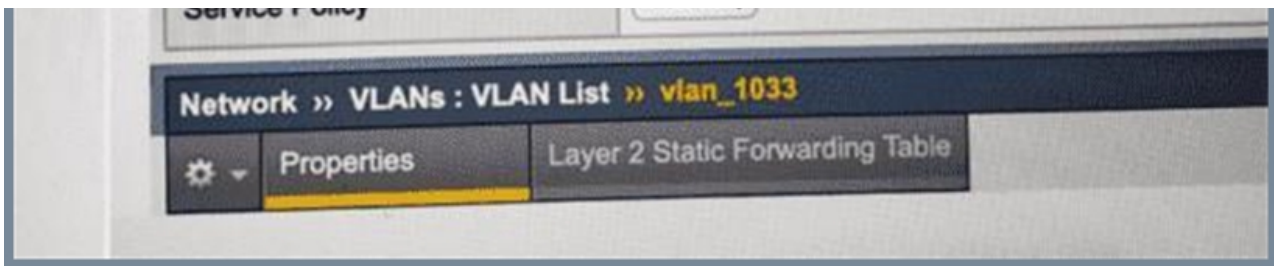
Network » Self IPs » **self_vlan1033**

Properties

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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



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

Answer: D

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 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 # 42

Active connections to pool members are unevenly distributed. The load balancing method is Least Connections (member). Priority Group Activation is disabled.

What is a potential cause of the uneven distribution? (Choose one answer)

- **A. A persistence profile is applied**
- B. SSL Profile Server is applied
- C. Priority Group Activation is disabled
- D. Incorrect load balancing method

Answer: A

Explanation:

Comprehensive and Detailed Explanation (BIG-IP Administration - Data Plane Concepts):

With Least Connections (member), BIG-IP attempts to send new connections to the pool member with the fewest current connections. In a perfectly "stateless" scenario (no affinity), this often trends toward a fairly even distribution over time.

However, persistence overrides load balancing:

When a persistence profile is applied, BIG-IP will continue sending a client (or client group) to the same pool member based on the persistence record (cookie / source address / SSL session ID, etc.).

This means even if another pool member has fewer connections, BIG-IP may still select the persisted member to honor session affinity.

The result can be uneven active connection counts, even though the configured load balancing method is Least Connections.

Why the other options are not the best cause:

A . Priority Group Activation is disabled

Priority Group Activation only affects selection when priority groups are configured; disabling it does not inherently create uneven distribution under Least Connections.

B . SSL Profile Server is applied

A server-side SSL profile affects encryption to pool members, but it does not by itself cause skewed selection across pool members. (Skew could happen indirectly if members have different performance/latency, but that's not the primary, expected exam answer.) D . Incorrect load balancing method Least Connections is a valid method and does not itself explain unevenness unless something is overriding it (like persistence) or pool members are not all eligible.

Conclusion:

A persistence profile is the most common and expected reason that active connections become unevenly distributed, because persistence takes precedence over the Least Connections load-balancing decision.

NEW QUESTION # 43

.....

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