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Exam B F5 101 100 Questions and Answers 2023-2024 with complete solution

What does HTTP status code 500 mean?   - A. Service unavailable
B. Internal server error ###
C. Gateway timeout
D. Bad gateway

An administrator wants to insert per-session data in a users browser so that user requests are directed to the same session.
Which session persistence method should the administrator use?   - A. SSL persistence
B. Source address persistence
C. Destination address persistence
D. Cookie persistence ###

An organization needs to protect its data center from layer three-based and layer four-based exploits.
Which F5 product provides this functionality   - A. AFM ###
B. ASM
C. GTM
D. APM

In which FTP mode is the server responsible for initiating the data correction back to the client?   - A. Protected FTP
B. Active FTP ###
C. Secure FTP
D. Passive FTP

A company deploys F5 load balancers to manage a large number of secure applications. The company manage certificates. Which F5 product provides this functionality?   - A. iHealth
B. BIG-IQ ###
C. GTM
D. LTM

What are two examples of network layer protocols? (Choose two)   - A. ARP ###
B. TCP
C. IPv4
D. BGP
E. ICMP ###

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F5 F5CAB2 Exam Syllabus Topics:

Topic	Details
Topic 1	• Define ADC application objects: This domain covers ADC basics including application objects, load balancing methods, server selection, and key ADC features and benefits.
Topic 2	• 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.
Topic 3	• 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 4	• Explain the relationship between interfaces, trunks, VLANs, self-IPs, routes and their status • 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.
Topic 5	• Explain high availability (HA) concepts: This domain addresses HA concepts including integrity methods, implementation approaches, and advantages of high availability configurations.

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F5 BIG-IP Administration Data Plane Concepts (F5CAB2) Sample Questions (Q33-Q38):

NEW QUESTION # 33
Which three iRule events are likely to be seen in iRules designed to select a pool for load balancing? (Choose three.)

- A. SERVER_DATA
- B. SERVER_SELECTED
- C. HTTP_RESPONSE
- D. SERVER_CONNECTED
- E. HTTP_REQUEST
- F. CLIENT_ACCEPTED
- G. CLIENT_DATA

Answer: E,F,G

NEW QUESTION # 34
The BIG-IP Administrator wants to provide quick failover between the F5 LTM devices that are configured as an HA pair with a single Self IP 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. 02:12:34:56:15:01
- D. 02:12:34:56:05:dd

Answer: D

Explanation:
Comprehensive and Detailed Explanation From BIG-IP Administration Data Plane Concepts documents:
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:
$1501_{10} = 0x05DD$
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.

NEW QUESTION # 35
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 > DB_Pool > Members
- C. Local Traffic > Profiles > Protocol > TCP
- D. Local Traffic > Nodes > Default Monitor

Answer: A

Explanation:
In the BIG-IP system object hierarchy, health monitors can be applied at three levels: Node, Pool, and Pool Member.
* Pool Level (Properties): Applying a monitor at the Pool > Properties level is the most common and efficient administrative practice. When applied here, the monitor is inherited by all members of that pool. If the monitor fails for a specific member, that member is marked "down" specifically for that pool.
* Node Level: If a monitor is applied at the Node level (Local Traffic > Nodes), it checks the health of the physical IP address itself. If it fails, that node (and all pool members associated with it) is marked down globally across the entire system.
* Member Level: Applying a monitor at the Pool > Members level allows for specific "per-member" monitoring, which is usually only done if different members in the same pool require different health checks.
* The Specific Case: For a standard database pool like DB_Pool, the administrator should navigate to Local Traffic > Pools > DB_Pool > Properties and select the appropriate monitor (e.g., a custom TCP or Oracle monitor) from the "Health Monitors" configuration section.

NEW QUESTION # 36
A BIG-IP system receives a client connection destined to 1.0.0.10:8080. Multiple virtual servers are configured on the system. Which virtual server will process the connection? (Choose one answer)

- A. A forwarding virtual server configured with 0.0.0.0:any
- B. A virtual server configured with 0.0.0.0:8080
- C. A forwarding virtual server configured with 1.0.0.10:any (port 0)
- D. A virtual server configured with destination 1.0.0.10:8080 and is available (green)

Answer: D

Explanation:
BIG-IP uses a virtual server matching and precedence algorithm to determine which virtual server processes an incoming connection. This decision is made entirely in the data plane and is based on how specifically a virtual server matches the destination IP address and port.
BIG-IP Virtual Server Selection Rules (Simplified):
When multiple virtual servers could match a packet, BIG-IP selects the most specific match, using the following precedence:
* Exact IP address and exact port
* Exact IP address with wildcard port (port 0 / any)
* Wildcard IP address with exact port
* Wildcard IP address and wildcard port
Applying the Rules to This Scenario:
Incoming traffic destination: 1.0.0.10:8080
* Option C: 1.0.0.10:8080
* Exact IP match
* Exact port match
* Highest possible specificity
* If the virtual server is available (green), it wins the match
* Option B: 1.0.0.10:any
* Exact IP match, but wildcard port
* Lower priority than an exact IP + exact port match
* Option D: 0.0.0.0:8080
* Wildcard IP, exact port
* Lower priority than an exact IP match
* Option A: 0.0.0.0:any
* Wildcard IP and wildcard port
* Lowest priority, used only if no more specific virtual server exists
Final Determination:
Because a virtual server configured with destination 1.0.0.10:8080 exactly matches both the IP address and port of the incoming connection-and is available-it will always be selected to process the traffic.
Key Data Plane Concept Reinforced:
BIG-IP always processes traffic using the most specific matching virtual server. Exact destination IP and port matches take precedence over any wildcard or forwarding virtual server definitions.

NEW QUESTION # 37
Which of the following lists the order of preference from most preferred to least preferred when BIG-IP processes and selects a virtual server? (Choose one answer)

- A. Source host address → Service port → Destination host address
- B. Service port → Destination host address → Source host address
- C. Destination host address → Source host address → Service port

Answer: C

Explanation:
The BIG-IP system uses a specific precedence algorithm to determine which virtual server (listener) should process an incoming packet when multiple virtual servers might match the criteria. Since BIG-IP version 11.3.0, the system evaluates three primary factors in a fixed order of importance:
Destination Address: The system first looks for the most specific destination match. A "Host" address (mask /32) is preferred over a "Network" address (mask /24, /16, etc.), which is preferred over a "Wildcard" (0.0.0.0/0).
Source Address: If multiple virtual servers have identical destination masks, the system then evaluates the source address criteria. Again, a specific source host match is preferred over a source network or a wildcard source.
Service Port: Finally, if both destination and source specifications are equal, the system checks the port. A specific port match (e.g., 80) is preferred over a wildcard port (e.g., or 0).
Following this logic, a virtual server configured with a specific destination host, a specific source host, and a specific service port represents the highest level of specificity and thus the highest preference.

NEW QUESTION # 38

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