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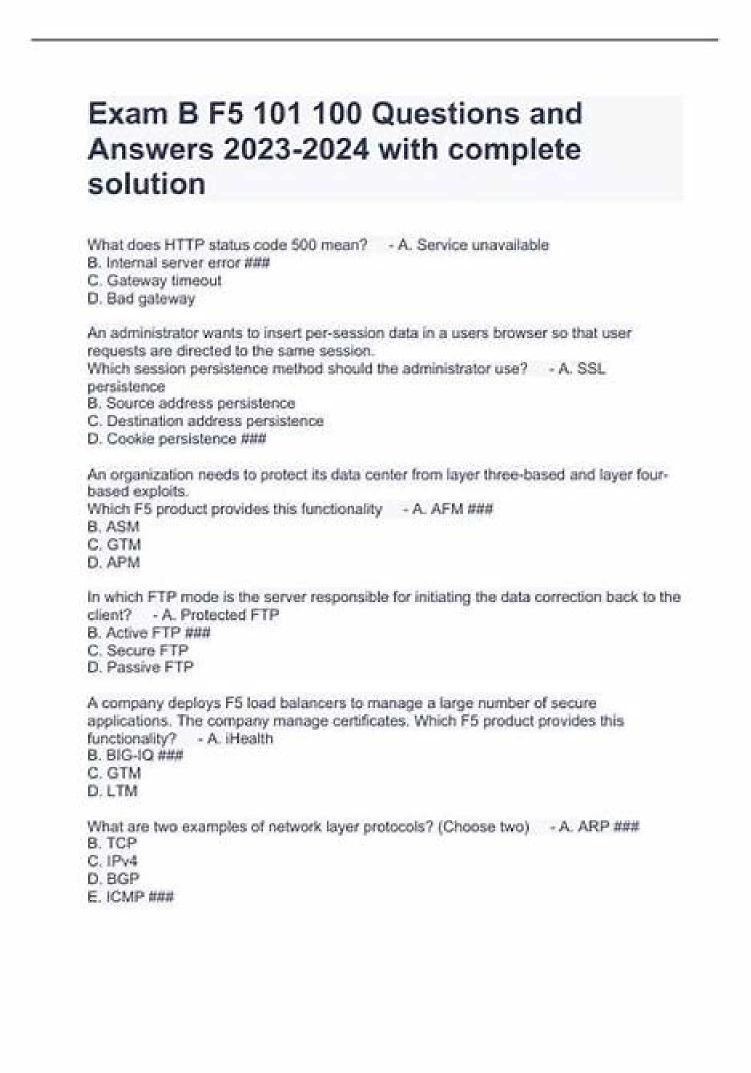

Exam B F5 101 100 Questions and Answers 2023-2024 with complete solution

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 BIG-IP Administration Data Plane Concepts (F5CAB2) Sample Questions (Q35-Q40):

NEW QUESTION # 35
The diagram below shows the TCP connection setup for an application.
Which of the following virtual server types applies? (Choose one answer)

- A. Forwarding IP virtual server
- B. Stateless virtual server
- C. Standard virtual server

Answer: A

Explanation:
The diagram illustrates a specific TCP handshake sequence where the BIG-IP system acts as a transparent forwarder rather than a full proxy. The key indicators that identify this as a Forwarding (IP) virtual server are as follows:
* Initial Packet Processing: The diagram explicitly states that the LTM evaluates the packet looking only at the destination IP address. This is the fundamental characteristic of a Forwarding IP virtual server, which uses the system's routing table to make forwarding decisions instead of load balancing to a pool of members.
* Handshake Sequence: Unlike a Standard virtual server, which completes the three-way handshake with the client (SYN, SYN-ACK, ACK) before initiating a separate connection to the server, the Forwarding IP virtual server passes the client's original SYN packet directly to the destination node.
* Response Timing: The BIG-IP system waits for the SYN-ACK from the destination node before it sends a SYN-ACK back to the client. It essentially "passes through" the handshake signals while still maintaining a state entry in the connection table to track the flow.
* Packet-by-Packet Logic: While it tracks the state, it does not perform address translation (unless SNAT is specifically configured) or deep packet inspection like a full proxy would.
Why other options are incorrect:
* Standard virtual server: A Standard virtual server is a "full proxy." It would finish the handshake with the client first and only then open a second, independent TCP connection to the backend server.
* Stateless virtual server: A stateless virtual server does not track connections in the connection table.
The diagram shows the system meticulously passing sequence numbers (seq_num) and acknowledgment numbers (ack_num) between the two sides, which requires stateful tracking of the TCP flow.

NEW QUESTION # 36
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 # 37

Refer to the exhibit.

During a planned upgrade to a BIG-IP HA pair running Active/Standby, an outage to application traffic is reported shortly after the Active unit is forced to Standby. Reverting the failover resolves the outage. What should the BIG-IP Administrator modify to avoid an outage during the next failover event? (Choose one answer)

- A. The Tag value on the Standby device
- B. The Tag value on the Active device
- C. The Interface on the Standby device to 1.1
- D. The interface on the Active device to 1.1

Answer: C

Explanation:
In an Active/Standby BIG-IP design, application availability during failover depends on both units having equivalent data-plane connectivity for the networks that carry application traffic. Specifically:
* VLANs are bound to specific interfaces (and optionally VLAN tags).
* Floating self IPs / traffic groups move to the new Active device during failover.
* For traffic to continue flowing after failover, the new Active device must have the same VLANs available on the correct interfaces that connect to the upstream/downstream networks.
What the symptom tells you:
* Traffic works when Device A is Active
* Traffic fails when Device B becomes Active
* Failback immediately restores traffic
This pattern strongly indicates the Standby unit does not have the VLAN connected the same way (wrong physical interface assignment), so when it becomes Active, it owns the floating addresses but cannot actually pass traffic on the correct network segment.
Why Interface mismatch is the best match:
* If the Active unit is already working, its interface mapping is correct.
* The fix is to make the Standby unit's VLAN/interface assignment match the Active unit.
* That corresponds to changing the Standby device interface to 1.1.
Why the Tag options are less likely here (given the choices and the exhibit intent):
* Tag issues can also break failover traffic, but the question/options are clearly driving toward the classic HA requirement: consistent VLAN-to-interface mapping on both devices so the data plane remains functional after the traffic group moves.
Conclusion: To avoid an outage on the next failover, the BIG-IP Administrator must ensure the Standby device uses the same interface (1.1) for the relevant VLAN(s) that carry the application traffic, so when it becomes Active it can forward/receive traffic normally.

NEW QUESTION # 38
Refer to the exhibit.

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. Slow Ramp Time to the Pool
- B. Different Ratio for each member
- C. Action On Service Down to Reselect
- D. Same Priority Group to each member

Answer: A

Explanation:
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 # 39
What should a BIG-IP Administrator configure to minimize impact during a failover? (Choose one answer)

- A. OneConnect profile
- B. MAC masquerading
- C. Clone pool
- D. External monitors

Answer: B

Explanation:
In BIG-IP high availability (HA) deployments, one of the primary causes of traffic disruption during failover is Layer 2 and Layer 3 relearning by upstream network devices (switches and routers). When traffic groups move from the Active device to the Standby device, the network must quickly associate the IP addresses with the new device.
Why MAC Masquerading Minimizes Failover Impact:
MAC masquerading allows a traffic group to use a floating, shared MAC address for its Self IPs. This MAC address moves with the traffic group during failover.
Key benefits:
* The MAC address does not change when failover occurs
* Upstream switches do not need to relearn ARP entries
* Traffic resumes almost immediately after failover
* Dramatically reduces packet loss and connection interruption
From BIG-IP Administration Data Plane Concepts:
* MAC masquerade is specifically designed to provide fast failover
* It is a best practice for HA pairs, especially in environments sensitive to latency and connection loss Why the Other Options Are Incorrect:
* A. External monitors
* Used to check the availability of external resources
* Do not reduce network convergence or failover disruption
* B. Clone pool
* Used for traffic mirroring or security analysis
* Has no impact on failover behavior
* C. OneConnect profile
* Optimizes server-side TCP connections
* Does not address ARP or MAC relearning during failover
Key HA Concept Reinforced:
To minimize failover impact on live traffic, BIG-IP administrators should ensure Layer 2 continuity. MAC masquerading is the primary mechanism that enables near-instant failover by preventing ARP and MAC table reconvergence delays.

NEW QUESTION # 40
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