

BIG-IP® LTM Essentials Questions

The sample questions listed on this page are not representative of the full depth or breadth of the questions in the certification exams. We have attempted to create questions covering the same general topic areas and to use a similar voice. If you have questions about specific topics, please refer to the appropriate product manuals and/or the manuals for the Training Course associated with each exam. This certification Practice Exam was written for version 9.0 - 9.2 of BIG-IP®LTM. Some features have changed slightly between versions.

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BIG-IP Sample Questions (Based on BIG-IP Version 9.x)

1. Which settings can be specified during the Setup Utility?
(choose 3)
 - A. Default route
 - B. Pool members
 - C. Self IP addresses
 - D. Virtual Server addresses
 - E. Password of root account

2. Which methods are recommended for accessing and managing BIG-IP Systems?
(choose 3)
 - A. SSH
 - B. HTTP
 - C. Telnet
 - D. HTTPS
 - E. Serial Console

3. Which features are included in the definition of a Virtual Server?
(choose 3)
 - A. Name
 - B. IP Address
 - C. Pool Members
 - D. Load Balancing Method
 - E. Service (TCP or UDP port)

4. Which features are included in the definition of a Pool?
(choose 3)
- A. Member IP Address(es)
 - B. Load Balancing Method
 - C. The choice to enable or disable ARPs
 - D. Member Service(s) (TCP or UDP port)
 - E. The choice to enable or disable the pool for specific VLANs
5. Given the conditions in the chart below, which pool member will be selected for the next request? The last five selections have been to members A, B, C, C and D.

Load Balancing		Least Connections				
Priority Group Activation		less than 2				
Persistence Mode		None				
Member Identifier	Node Ratio	Member Ratio	Member Priority	Connections	Response Time	Status
A 10.1.1.1:80	1	1	1	5	2 ms	Up
B 10.1.1.2:80	1	2	1	6	2 ms	Disabled
C 10.1.1.1:81	1	3	3	7	3 ms	Up
D 10.1.1.2:81	1	4	3	8	2 ms	Down

- A. A
- B. B
- C. C
- D. D
- E. None of the above.

6. A connection is made to the Virtual Server at 150.150.10.10:80 associated with the pool below. The last five connections have been C, D, C, D and C. Given the conditions on the charts below, if a client at IP address 205.68.17.12 connects, what member will be selected for this request?

Load Balancing		Fastest				
Priority Group Activation		less than 2				
Member Identifier	Node Ratio	Member Ratio	Member Priority	Connections	Response Time	Status
A 10.1.1.1:80	1	1	1	5	3 ms	Up
B 10.1.1.2:80	1	2	1	6	2 ms	Disabled
C 10.1.1.1:81	1	3	3	7	3 ms	Up
D 10.1.1.2:81	1	4	3	3	2 ms	Down
Persistence Mode		Source Address Timeout = 600, Mask = 255.255.255.0				
Client Address	Virtual Path	Pool Name	Member Node	Alive Time		
200.11.225.0	150.150.10.10	WebPool	10.1.1.1:80	300		
200.11.15.0	150.150.10.10	WebPool	10.1.1.2:80	500		
205.68.17.0	150.150.10.10	WebPool	10.1.1.1:81	200		

- A. A
 B. B
 C. C
 D. D
 E. None of the above.
7. When the ICMP monitor is assigned to all nodes, what is the result if one node fails to respond prior to the timeout being reached?
 (choose 3)
- A. All nodes are marked DOWN.
 B. The failed node is marked DOWN.
 C. The monitor will continue to probe all nodes
 D. All members at the failed node are marked DOWN.
 E. Clients with persistent sessions to members at the failed node will continue to be sent to those members.

8. Which three profile types can be assigned to a Virtual Server?
(Choose 3)
- A. SSH
 - B. HTTP
 - C. HTTPS
 - D. clientssl
 - E. Cookie persistence
9. If a pool member is marked DOWN due to a monitor's check failing, what is the result?
(choose 1)
- A. That pool member will not receive any traffic.
 - B. That pool member will only receive traffic for existing sessions.
 - C. That pool member will only receive traffic for existing connections.
 - D. That pool member will receive the same level of traffic regardless of the state.
10. When a virtual server has a clientSSL profile but not a serverSSL profile, what traffic is encrypted?
(choose 2)
- A. traffic between the client and the virtual server
 - B. traffic between the BIG-IP system and the client
 - C. traffic from the BIG-IP system to the selected pool member
 - D. traffic from the selected pool member to the BIG-IP system
11. When a device sends a connection request to a SNAT address, what is the result?
(choose 1)
- A. The traffic is rejected.
 - B. The request's source address is translated to the SNAT address.
 - C. The request's destination address is translated to the SNAT address.
 - D. The request's destination address is translated to the selected member's address.
12. When a device sends a connection request to a NAT address, what is the result?
(choose 1)
- A. The traffic is rejected.
 - B. The request's source address is translated to the NAT address.
 - C. The request's destination address is translated to the NAT address.
 - D. The request's destination address is translated to the specified origin server's address.

13. Which parameters can be used by an iRule to select an action for a given a request?

(choose 3)

- A. Client IP Address
- B. HTTP Method used
- C. File name in the requested URL
- D. The number of members available within the listed pools
- E. Response time between client and the BIG-IP system

14. When performing the initial configuration on a pair of BIG-IP systems, what data should be common between the pair?

(choose 2)

- A. Unit IDs
- B. Password of root user
- C. Password of the "admin" account
- D. Non-Floating addresses on each VLAN
- E. Floating (shared) addresses on each VLAN

15. After synchronizing a pair of BIG-IP systems, what data will be the same on each device?

(choose 2)

- A. System Clocks
- B. All Pool definitions
- C. All self-IP addresses
- D. All virtual Server addresses
- E. MAC masquerading address

16. Which processes can be used by either system to detect a failure condition?

(choose 3)

- A. VLAN arming
- B. Watchdog card
- C. Gateway failsafe
- D. MAC masquerading
- E. Connection mirroring

17. Assume system A is initially is active and system B is Standby. If system A has a failure, how will system B determine the change of state?

(choose 2)

- A. System B must be forced to assume the active state.
- B. System B will detect the failure system at the same time as the system A.
- C. If connected, system B will detect the loss of signal from system A across the failover cable.
- D. If configured for network failover, system B will detect the loss of signal from Controller A across the network.
- E. System B will detect that system A is no longer responding to connection requests to the Virtual Server addresses.

18. Which statements are true concerning persistence mirroring? Assume the systems are synchronized.

(choose 2)

- A. Cookie persistence records can only be mirrored if the clocks on the systems are synchronized.
- B. Cookie persistence records can be used even when the connection is encrypted all the way from the client to the node.
- C. Source address persistence records will be mirrored only if the "mirroring" option was selected prior to the session being established.
- D. If a failover occurs while a source address persistence record exists, the new active system will honor the persistence record for the initial timeout period even if no additional connections are made.

19. Which statements are true concerning connection mirroring? Assume the systems are synchronized.

(choose 3)

- A. Connection mirroring is enabled by default.
- B. Connection mirroring is selection within each load balancing pool.
- C. If Connection mirroring is enabled after a connection has been established, that connection will not be mirrored.
- D. If a failover occurs while a mirrored connection record exists, the newly active system will assume support for the connection.
- E. Connection mirroring can be used with any connection type, but it is recommended only for long-lived connections such as Telnet and FTP.

20. How is MAC Masquerading configured?

(choose 1)

- A. On each controller, the MAC address of the selected NIC is over-ridden on the Network/Interfaces page of the Configuration Utility.
- B. On each controller, the MAC address of the selected VLAN is over-ridden on the Network/VLANs page of the Configuration Utility.
- C. On either controller, the MAC address of the selected NIC is over-ridden on the Network/Interfaces page of the Configuration Utility and then the controller are synchronized.
- D. On either controller, the MAC address of the selected VLAN is over-ridden on the Network/VLANs page of the Configuration Utility and then the controllers are synchronized.

21. Which two troubleshooting tools can be executed via the configuration utility?

(choose 2)

- A. bigtop
- B. qkview
- C. tcpdump
- D. ssldump

BIG-IP Answer Key (Based on BIG-IP Version 9.x)

Question	Answer	Question	Answer	Question	Answer
1	A C E	9	A	17	C D
2	A D E	10	A B	18	C D
3	A B E	11	A	19	C D E
4	A B D	12	D	20	B
5	A	13	A B C	21	B C
6	C	14	C E		
7	B C D	15	B D		
8	B D E	16	A B C		