



F5-Networks

Exam Questions 101

Application Delivery Fundamentals

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NEW QUESTION 1

What does HTTP status code 500 mean?

- A. Service unavailable
- B. Internal server error
- C. Gateway timeout
- D. Had gateway

Answer: B

NEW QUESTION 2

An administrator sets up a web server for a new web application. The administrator cannot access the web server at is causing this issue?

- A. The HTTP service only listens on localhost
- B. The users IP needs to be allowed to access
- C. The server needs to be restarted
- D. The HTTPS service Is not running

Answer: A

NEW QUESTION 3

Where is the MAC masquerade address configured?

- A. Virtual Server
- B. Virtual Address
- C. Device Groups
- D. Traffic Groups

Answer: D

NEW QUESTION 4

A BIG-IP Administrator wants to send packets from one subnet to another. What device is required to allow this to function?

- A. switch
- B. Router
- C. HUP
- D. Bridge

Answer: B

NEW QUESTION 5

The HTTP 1.1 standard is being used as part of communication to a server. The client fails to maintain the session within the maximum timeout defined by the server. Which device is responsible for ending the HTTP session?

- A. the load balancer
- B. the server
- C. the default gateway of the load balancer
- D. the client

Answer: C

NEW QUESTION 6

End users report widespread issues accessing multiple network resources

What tool should the BIG IP Administrator use to view the status of all virtual servers and associated resources in one place?

- A. Pool statistics
- B. Network Map
- C. System performance
- D. Virtual server statistics

Answer: B

Explanation:

The network map shows a list Virtual, Pools and iRules with the status of each.

NEW QUESTION 7

Which IP subnet mask can be used to send traffic to all network nodes?

- A. 192 168.0. 255/23
- B. 192. 168. 1. 11/31
- C. 172. 16. 1255/22
- D. 192. 168. 0. 11/30

Answer: D

NEW QUESTION 8

A website is using source address persistence with a 30 second timeout A client is idle for 35 seconds What happens to their connection?

- A. The client receives a "404 Page Not Found" error
- B. The client connection is dropped
- C. The client remains on the same server
- D. The Client request is load balanced

Answer: D

Explanation:

http://support.f5.com/kb/en-us/products/big_ip_ltm/manuals/product/lrm-concepts-1-1-2-1/lrm_persist_files.html

NEW QUESTION 9

VLAN test-vlan" is configured on interface 1 1 instead of interface 1.2. Which TMSH command should be used to correct this issue?

- A. modify /net test vlan interfaces {1.2}
- B. modify /net test-vlan interfaces replace all with {1 2}
- C. modify /net vlan test-vlan interfaces replace all with {12}
- D. modify /net sian test-vlan interfaces {1 2}

Answer: C

NEW QUESTION 10

A BIG-IP Administrator needs to upgrade an HA pair to a more recent TMOS version. The administrator is unsure if the BIG-IP is currently supported How should the administrator verify that the HA pair is under a valid support contract?

- A. confirm that License OK" is set to yes in the applied license
- B. confirm that the "Service Check Date" specified in the applied license has not passed
- C. Check the status of the license under the Platform menu of the F5 Configuration Unity
- D. review /var/log/license for messages that indicate an expired license

Answer: C

NEW QUESTION 10

A BIG-IP Administrator needs to configure a MAC masquerade address for traffic-group 1. Where on the GUI should this configuration be performed?

- A. System > Configuration Device General > ltraffic-group-1
- B. Local Traffic > Traffic Class > traffic -group-1
- C. Device Management > Traffic Groups > traffic-group-1
- D. Network > ARP Static List > traffic-group-1

Answer: C

NEW QUESTION 14

in which scenario is a full proxy TCP connection required?

- A. when IP Anycastmg is enabled
- B. when routing is enabled
- C. when the number of TCP connections to the server must be optimized
- D. when the client TCP connections options must be sent to the server

Answer: C

NEW QUESTION 16

When using LDAP for authentication, what is the purpose of the base ON?

- A. the search context starting point
- B. the directory's simple name
- C. the base attribute in an LDAP directory
- D. the fundamental naming convention

Answer: A

NEW QUESTION 18

Which service should be configured to allow BIG-IP devices to be externally monitored?

- A. SSHD
- B. TMSH
- C. SMTP
- D. SNMP

Answer: D

NEW QUESTION 22

A messaging system digitally signs messages to ensure non-repudiation of the sender. Which component should the receiver use to validate the message?

- A. Public Key
- B. SSL extension
- C. A negotiated security algorithm
- D. private Key

Answer: A

NEW QUESTION 24

A BIG-IP Administrator configures three Network Time Protocol servers to keep the time of the devices in sync. Which tool should the administrator use to show the synchronization status with the Network Time Protocol servers ?

- A. ntpdate
- B. time
- C. mpa
- D. date

Answer: C

NEW QUESTION 29

in which scenario is a full proxy TCP connection required?

- A. when SSL offloading is used
- B. when Traffic is routed
- C. when administrators manage the servers directly
- D. when 3 server responds directly to the client

Answer: A

NEW QUESTION 32

In which FTP mode is the serve, responsible for initiating the data correction back to the client?

- A. Protected FTP
- B. Active FTP
- C. Secure FTP
- D. Passive FTP

Answer: B

Explanation:

<https://support.f5.com/csp/article/K08859735>

NEW QUESTION 37

A company recently opened a new branch site. The site needs to access the internet through a link to HQ. The router at the branch Branch1 the router at HQ is Called core1. The computers at the branch site reside on the network 192 168 1 0/24 directly connected to Branch1 Users at HQ can already access the Internet. What routing must be configured to achieve the required internet connectivity for the branch site?

- A. a route for 0. 0. 0.0/0 on Branch1 to Core1, and a route for 192 168 1 0/24 from Core 1 to Branch1
- B. a route for 0. 0. 0.0/0 on Core 1 to Branch1. and a route (or 192 168 1.0/24 from Branch 1 to Core.
- C. only a route for 192 168 0 0/24 from Core1 to Branch1
- D. only a route for 0. 0.0.0/0 on Branch1 to Core1

Answer: A

NEW QUESTION 41

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

Answer: A

Explanation:

<https://www.f5.com/products/security/advanced-firewall-manager>

NEW QUESTION 44

An administrator wants to insert per-session data in a users browser so that user requests are directed to Which session persistence method should the administrator use?
the same session

- A. SSL persistence
- B. Source address persistence
- C. destination address persistence
- D. cookie persistence

Answer: D

Explanation:

<https://support B.com/csp/article/K83419154>

NEW QUESTION 45

A BIO IP Administrator is troubleshooting a slow web application. A packet capture shows that some of the packets coming from a window size of zero A packet capture shows that som a window size of zero
What does this mean?

- A. The client is trying to close the TCP connection
- B. The server is trying to close the TCP connection
- C. The server is temporary unable to receive any more data
- D. The client is temporarily unable to receive any more data

Answer: C

NEW QUESTION 49

A certificate chain can be used for which purpose?

- A. Creating anonymous connections on the internet
- B. anchoring the geographic location of a client or server
- C. Ensuring multiple layers of decryption and encryption
- D. Determining a client or server should be trusted

Answer: D

NEW QUESTION 53

An application uses a proprietary protocol running over TCP
Which FS BIG-IP feature should the administrator use to modify the protocol?

- A. SPDY
- B. rewrite profile
- C. TCP profile
- D. iRules

Answer: D

NEW QUESTION 54

A company would like to create a web service for multiple data centers (US EU, ASia) where each data center uses the same IP address Requests will be routed to the closest data center. Which address type is the appropriate solution?

- A. Broadcast
- B. Unicast
- C. Anycast
- D. Micast

Answer: C

NEW QUESTION 58

What is a common use of an iRule?

- A. to modify application traffic between the client and server
- B. to create a reuseable application delivery template
- C. to integrate a BIG IP into an enterprise orchestration tool
- D. to create an accelerated session between two BIG-IP devices

Answer: A

NEW QUESTION 63

What is a benefit of configuring BIG-IP devices in active-active high availability mode?

- A. avoid Overload on the BIG-P system in the event of a failover
- B. allows full utilization of hardware purchased
- C. reduces troubleshooting complexity
- D. provides ability to upgrade a member of the pair without disruption

Answer: B

NEW QUESTION 68

Which two protocol are used for the retrieval of email? (Choose two)

- A. ICAP
- B. SMTP
- C. IMAP
- D. POP3
- E. SNMP

Answer: CD

NEW QUESTION 71

An administrator points the browser at h.tp://www mydomain com.The destination server listens on TCP port 8080 Which feature must be enabled on the virtual server for this configuration to work?

- A. HTTP persistence
- B. source NAT
- C. destination address affinity
- D. port translation

Answer: D

Explanation:

<https://support.f5.com/csp/article/K93G17176>

NEW QUESTION 75

An administrator encounter an error while working on eBiG.IP device and contacts F5 Support to open a case. While opening the case Support of the administrator that a BIO-IP version update is required.

Which F5 Support policy requires the administrator to upgrade the BIG-IP version.

- A. End of Software Support
- B. End of Support Contact Renewal
- C. End of Technical Support
- D. End of Return to Manufacturing

Answer: A

NEW QUESTION 79

Which HTTP response code indicates an OK status?

- A. 302
- B. 404
- C. 200
- D. 100

Answer: C

NEW QUESTION 84

A company deploys F5 load balancers to manage number of secure applications. The company needs to centrally manage certificates.

Which F5 product provides this functionality?

- A. BIG IQ
- B. GTW
- C. iHeath
- D. LTM

Answer: A

NEW QUESTION 89

An administrator is having a connectivity issue with a server in the same network. Upon checking with the command arp -a on a Windows machine, the two outputs are taken on a 1 minute interval "hat is likely causing this issue?

- A. Interface down
- B. MAC address conflict
- C. No route available
- D. IP address conflict

Answer: D

NEW QUESTION 94

What does the 5XX group of HTTP status codes indicate?

- A. Redirection
- B. Successful
- C. Client Error
- D. Server Error

Answer: D

NEW QUESTION 95

Which protocols are used for control and session establishment for streaming media?

- A. RTP
- B. RTSP
- C. OTLS
- D. SMB

Answer: A

Explanation:

https://en.wikipedia.org/wiki/Real_Time_Streaming_Protocol

NEW QUESTION 96

Ping and Traceroute outputs are provided for a connectivity issue. What is the cause of these results?

- A. routing loop
- B. packets that are routed with a high metric
- C. multiple paths toward the destination

Answer: A

NEW QUESTION 101

In 2001:db8 IPv6 address block is allocated to a load balancer for use as virtual server addresses. The address block balancer set ip address using a static route. What is the representation for the last address in the address block that a virtual server can use?

- A. 2001:db8::ffff,ffff,ffff,ffff
- B. 2001:db8::
- C. 2001:db8::255
- D. 2001:db8:ffff,ffff,ffff,ffff

Answer: D

NEW QUESTION 102

Why is it important that devices in a high availability pair share the same configuration?

- A. so that a spanning tree loop can be avoided
- B. so that application traffic can do gracefully resumed after a failover
- C. so that configuration Updates can occur instantly between two devices
- D. so that the load can be shared equally between the devices

Answer: B

NEW QUESTION 104

The 2001:db8:: IP6 address block is allocated to a load balancer for use as virtual server addresses. The address block is routed to a balancer self IP address using a static route. What is the correct representation for the last address in the address block that a virtual server can use?

- A. 2001:db8
- B. 2001:db8::255
- C. 2001:db8::ffff:ffff:ffff:fffe
- D. 2001:db8::ffff:ffff:ffff:ffff

Answer: C

NEW QUESTION 107

The BIG IP device is connected to the same network as a server

Which communication protocol will the BIG IP device use to discover the link layer address of the server?

- A. Ping
- B. ICMP
- C. RARP
- D. ARP

Answer: D

NEW QUESTION 108

A BIG IP Administrator needs to create a virtual server for a new secure end-to-end web application. After change in configuration, the virtual server is still marked down. The configuration of the virtual server and the pool member are correct. A quick server shows the status.

To fix the issue, what should the BIG-IP Administrator inform the web server administrator to do?

- A. change web server configuration to use SSL/TLS
- B. reboot the server
- C. restart the web service
- D. change web server configuration to use SSH/SCP

Answer: A

Explanation:

If the application needs to be secure 'end-to-end' the web server needs to use SSL as well. Most web servers will not require HTTP requests when configured with HTTPS, so the monitor is failing.

NEW QUESTION 109

An administrator needs to load balance connections to the application server with the lowest number of Which load balancing method meets these requirements?

- A. Least Sessions
- B. Ratio Least Connections (member)
- C. Least Connections (member)
- D. Least Connections (node)

Answer: D

Explanation:

<https://support.f5.com/csp/article/K9573>

NEW QUESTION 111

An administrator is currently designing the IP addressing scheme for a small company. They have been asked to use the 192. 168. 100 x block of addresses with a /27 network prefix. How many networks and hosts per network will be available when using the 27-bit network prefix.

- A. 255 networks each with 224 hosts
- B. 30 networks each with 8 hosts
- C. 8 networks each with 30 hosts
- D. 27 networks each with 30 hosts

Answer: C

NEW QUESTION 116

A BIG IP administrator recently reset statistics for interfaces 1.1 and 1.2. The administrator notices that traffic appears on a data plane interface without receiving any client requests. All nodes and pools have monitoring enabled, and all routes are locally defined on the device. All management traffic is sent over the mgmt interface. What is the nature of this traffic?

- A. SNMP polling and traps
- B. Health checks for nodes and pool members
- C. Dynamic routing protocols
- D. TCP Keepalives for nodes and pool members

Answer: B

Explanation:

Health checks typically will be sent via the tmm interface based on the tmm routing configuration.

NEW QUESTION 117

What does ICMP Time Exceeded mean?

- A. The ping command exceeded the time limit.
- B. The traceroute command exceeded the time limit.
- C. Remote host did not respond.
- D. TTL has reached zero.

Answer: D

NEW QUESTION 122

Which protocol data unit (PDU) is associated with the OSI model's Physical layer?

- A. Frame
- B. Datagram
- C. Segment
- D. Bit

Answer: D

Explanation:

https://en.wikipedia.org/wiki/Protocol_data_unit

NEW QUESTION 123

AD VLAN must be created with an 802.19 tag of 705 on interface 11. What is the proper TSH command to create this new VLAN on the BIG-IP?

- A. Create/net wan internal interfaces add {1 1 (tagged)} tag 706
- B. Create/net vlan internal trunk add (11 {tagged})
- C. add /net vlan internal interfaces add (11) tag 705
- D. add / net vlan internal tunk add {1 1 (tagged)} tag 705

Answer: A

NEW QUESTION 127

A client is transmitting a large amount of data to a server. During this process, the server sets the window size to zero. What is the likely cause of this issue?

- A. The server is unable to accept more data
- B. The server resets the connection
- C. The client runs out of network buffers
- D. The server reaches its maximum segment size

Answer: A

Explanation:

<https://wiki.wireshark.org/TCP%20ZeroWindow>

NEW QUESTION 131

An administrator needs to lower the amount of new TCP connections to help with network congestion. How should the administrator accomplish this?

- A. Use HTTP keep-alive
- B. set a larger receive window
- C. Enable delayed ACKs
- D. use an indefinite timeout

Answer: A

NEW QUESTION 133

Which protocol could be used to provide AAA Accounting?

- A. Kerberos
- B. SAML
- C. Diameter
- D. LDAP

Answer: C

Explanation:

https://en.wikipedia.org/wiki/Diameter_protocol

NEW QUESTION 135

Web application <http://www.example.com> at 10.10.1.1:80, is unresponsive. A recent change migrated DNS to a new platform.

- A. telnet www.example.com 80
- B. curl http://www.example.com
- C. dig www.example.com
- D. telnet 10.10.1.110 80

Answer: C

Explanation:

Telnet will open a socket to the http server, but the request would need to be manually input. Curl will send a request and output the response.

NEW QUESTION 139

Layer 2 mapping information is announced by an interface without receiving a request for the mapping first. Which term describes this event?

- A. ICMP

- B. STP
- C. gratuitous ARP
- D. ARP

Answer: C

NEW QUESTION 144

HTTPS traffic is being passed from behind a NAT router, through a load balancer, to servers without being decrypted. What is the F5-recommended persistence method in this situation?

- A. SSL session ID persistence
- B. source address persistence
- C. SIP persistence
- D. destination address persistence

Answer: A

NEW QUESTION 145

Pool A has three members. Why is the pool up?

- A. Heaton monitoring is enabled on only one member
- B. One member has a successful health monitor
- C. Member status is determined by volume of traffic
- D. There is no health monitoring

Answer: B

NEW QUESTION 147

Which device group type allows a BIG IP system to automatically become active in the event that the current active system fails?

- A. Sync-active
- B. sync-failover
- C. sync-standby
- D. sync-only

Answer: B

Explanation:

The sync-failover group allows for failover of a traffic group. The syncn-only will synchronize ASM profiles and some other device information but does not deal with traffic groups

NEW QUESTION 148

A BIG IP Administrator reviews the Virtual Server configuration and sees the object status represented by a blue square for an unknown status. How should the administrator change the unknown status?

- A. restart the BIG-IP device
- B. assign a monitor to the pool
- C. restart the backend webserver
- D. run a packet capture on the BIG-IP device

Answer: B

NEW QUESTION 151

If there are multiple applications authenticated against a single identity store, which technology solution will simplify access to all applications?

- A. RADIUS
- B. single sign on
- C. multifactor authentication
- D. LDAP

Answer: B

NEW QUESTION 154

What is a disadvantage of running a visualized load balancer

- A. more expensive than a hardware load balancer
- B. slower than a hardware load balancer
- C. less reliable than a hardware load balancer
- D. does not support high availability

Answer: B

NEW QUESTION 155

An administrate receives an error message when attempting to create a self-IP address on a BIG-IP appliance Which address should the administrator use to resolve the issue?

- A. 2001 0db8.85a3 0000 0000 8a2e 0370 7334
- B. 2001:db8:85a3 Bd3.Ba2e.370 7334
- C. 2001:0db8:85i3:0000:0000: : 8a2i:0370:7334

Answer: A

NEW QUESTION 157

What command sends an "Echo Request" message and expects an "Echo Reply" message?

- A. ping
- B. netstal
- C. tcpdump
- D. echo

Answer: A

NEW QUESTION 159

A company is creating a new department for Security Engineering and needs to create a segregated network segment with only 24 IPS. What should be configured?

- A. configure a new VLAN and assign a netmask of /29
- B. use an existing VLAN and assign a netmask of /28
- C. use an existing VLAN and assign a netmask of /30
- D. configure a new VLAN and assign a netmask of /27

Answer: D

Explanation:

a /28contains 14 usable IPs and a 127contains 30 usable IPs

NEW QUESTION 163

In a load balanced scenario which service would require persistence to function correctly?

- A. Simple Mail Transport Protocol
- B. DNS
- C. Web-based email
- D. HTTP

Answer: C

NEW QUESTION 165

in which scenario is a full proxy TCP connection required?

- A. when SIP UP P load balancing is defined
- B. when DNS load balancing is configured
- C. when compression is enabled
- D. when layer 3 load balancing is configured

Answer: C

NEW QUESTION 167

Which protocol Authenticates network traffic between hosts end without encryption?

- A. PPTP
- B. GRE
- C. IPSec AH
- D. iPSec ESP

Answer: C

Explanation:

<https://developer.ibm.com/answers/questions/37253/what-is-the-difference-between-the-ah-and-esp-port/>

NEW QUESTION 171

An administrator needs to rapidly detect a newly discovered security threat to a remote desktop application. Which F5 feature provides this functionality?

- A. iRules
- B. SSL profiles
- C. Proxy SSL
- D. SPDY

Answer: A

NEW QUESTION 173

An administrator needs to connect a new device to a switched network. The interconnect must be both redundant and combined bandwidth than a single link. Which low-level protocol will help facilitate this?

- A. Link Aggregation Control Protocol (LACP)
- B. Link Allocation & Configuration Protocol (LACP)
- C. Link Local Distribution Protocol (LLDP)
- D. Link Layer Discovery Protocol (LLDP)

Answer: A

NEW QUESTION 175

Web application <http://www.example.com> at 10.10.1.1.10 is unresponsive.

A recent change installed new firewalls in the network. Which command should be used to locate where data loss has occurred within the network?

- A)
- B)
- C)
- D)

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: C

Explanation:

Traceroute attempts to send ICMP-packets that expire further down the network and determine if a network device is responding or allowing traffic through.

NEW QUESTION 180

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