



# **F5-Networks**

## **Exam Questions 101**

Application Delivery Fundamentals

#### NEW QUESTION 1

A client receives all of the expected data from a server and sends a FIN packet signaling the end of communication. What will the server do when it receives the FIN Packet from the client?

- A. send a SYN packet
- B. send an RST packet
- C. Send both FIN and RST packets
- D. send an ACK Packet

**Answer:** D

**Explanation:**

<https://www.geeksforgeeks.org/computer-networ-tcp-connection-termination/>

#### NEW QUESTION 2

in which scenario is a full proxy required?

- A. When a separation between client and server connection .s needed
- B. When administration directly access the servers for administration
- C. when the server sends the response through lho load balancer
- D. when all TCP client parameters must be seen by the server

**Answer:** A

**Explanation:**

Reference [https //devcentral.f5.com/articles/three-things-your-proxy-cart-do-unless-its-a-full-proxy](https://devcentral.f5.com/articles/three-things-your-proxy-cart-do-unless-its-a-full-proxy)

#### NEW QUESTION 3

Client traffic for a web application is managed by load balancers in a high availability configuration. After a failover event all clients ant forced to login again to the application.

What is the most like reason this occurred?

- A. Clients were sending request to failed load balancer
- B. correction mirroring configuration was NOT configured on the loadbalancer
- C. The server was responding to the failed load balancer
- D. SSL offloading was NOT configured on the load balancer

**Answer:** B

#### NEW QUESTION 4

Host A sends 10 TCP packets to Host B. All packets arrive at Host B quickly, but some arrive out of order. What will Host B do?

- A. ACK only packets that are in order
- B. drop all packets and wait for arrival in order
- C. drop any packets that arrive out of order
- D. ACK all packets and place them in order

**Answer:** D

#### NEW QUESTION 5

An organization needs to cryptographically sign its domains. Which F5 product provides this functionality?

- A. GTM
- B. LTM
- C. ASM
- D. APM

**Answer:** A

**Explanation:**

[https //devcentral f5 com/articles/the-tNg-ip-gtm-configuring-dnssec](https://devcentral.f5.com/articles/the-tNg-ip-gtm-configuring-dnssec)

#### NEW QUESTION 6

Which HTTP response code is returned when a web server requires authentication to access a resource?

- A. 500
- B. 401
- C. 302
- D. 100

**Answer:** B

#### NEW QUESTION 7

Which protocol is used for control and session establishment for streaming media?

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

**Answer:** D

**Explanation:**

Referance: <https://stackoverflow.com/questions/4303439/what-is-the-difference-between-rtp-or-rtst-in-streaming-server>

**NEW QUESTION 8**

What is an advantage of a packet forwarding architecture?

- A. allows for manipulation of HTTP headers
- B. allows for SSL offload
- C. reduces latency
- D. handles larger packet sizes

**Answer:** C

**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**

Ethernet frame FCS errors occur when which calculation fails?

- A. FSCM
- B. CRC
- C. CSR
- D. HSTS

**Answer:** B

**NEW QUESTION 13**

What we two advantages of using SSL offloading? (Choose two)

- A. Offloads the client to SSL processing
- B. provides single point of management for private keys
- C. reduces server load significantly
- D. encrypts all communications and to end
- E. allows secure remote access to internal server resources

**Answer:** BC

**NEW QUESTION 17**

A BIG IP virtual Server with an IP address of 10.100.43.108 must be available to public internet users. Which technology should be used to achieve this task?

- A. NDP
- B. DNS
- C. NAT
- D. ARP

**Answer:** C

**Explanation:**

10 x.x.x/8 is an RFC 1918 reserved private IP address. It must be NATted from a publicly accessible IP for access from the internet

#### NEW QUESTION 20

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 24

in which scenario would an SSL VPN solution have an advantage over an IPSec VPN?

- A. when users are unable to install software on their PC
- B. when users require a secure connection to the corporate network
- C. when users work remotely
- D. when users require the ability to RDP to internal resources

**Answer:** C

#### NEW QUESTION 26

Which protocol data unit (PDU) is associated with the OSI model Network layer?

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

**Answer:** B

#### Explanation:

[https://en.wikipedia.org/wik/Protocol\\_data-unit](https://en.wikipedia.org/wik/Protocol_data-unit)

#### NEW QUESTION 27

Which techology can be used on a BIG-IP device to accelerate the delivery of the same content to multiple user?

- A. persistence
- B. SSL offloading
- C. Compression
- D. caching

**Answer:** D

#### NEW QUESTION 28

An administrator configures a default gateway for the host. What is the purpose of a default gateway?

- A. to replace the destination IP address with the default gateway
- B. to pass all traffic to the default gateway
- C. to forward packets to remote networks
- D. to populate the ARP table

**Answer:** C

#### NEW QUESTION 30

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 34

A BIG-IP Administrator is cleaning up unused Virtual Servers and pools via the Configuration Utility while trying to delete certain administrator receives an error message that indicates that the pool is in use.

What is the likely cause of this error?

- A. The pool members are all disabled
- B. The pool is in use by a Virtual Server
- C. The pool members are marked up with a green circle
- D. The pool is in use by a monitor

**Answer:** B

#### NEW QUESTION 38

An administrator needs a remote VPN solution for corporate users. The existing network infrastructure has web-based services. The administrator needs to select the VPN that is the least complicated to deploy.  
Which VPN solution should the administrator choose?

- A. IPSec
- B. L2TP
- C. SSL
- D. PPTP

**Answer:** A

#### NEW QUESTION 41

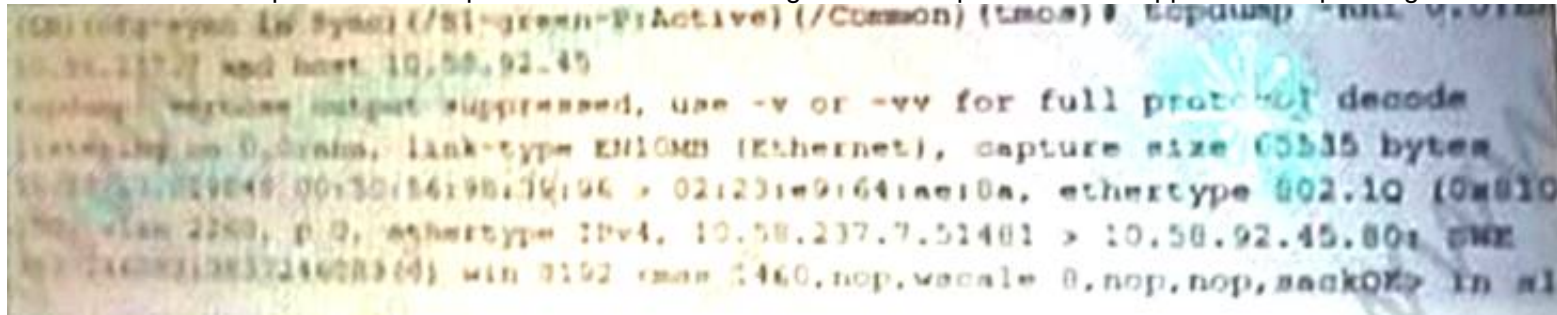
A client's operating system needs to make sure that data received from a server is mapped to the application that requested it.  
How does it complete this mapping?

- A. using the TCP sequence number
- B. using the client source port
- C. using the TCP acknowledgement number
- D. using the server source port

**Answer:** B

#### NEW QUESTION 42

BIG-IP Administrator performs the capture as shown in the image! On which protocol is the application responding?



- A. RDP
- B. HTTPS
- C. DNS
- D. HTTP

**Answer:** D

#### NEW QUESTION 47

A BIG-IP Administrator needs to create a route to send traffic destined to 10.1.1 1 to another router with an address of 192 168 1 1 Which TMSH command should the administrator use?

- A. create/net route 10. 11. 1/32 gw 192 168. 1. 1
- B. create met route 192 168. 1. 1/32 gw 10. 11. 1
- C. add met route 192. 168. 1. 1/32 gw 10. 1. 1. 1
- D. add inet route 10.11.1/32 gw 192. 168.1.1

**Answer:** A

#### NEW QUESTION 48

Which protocol does an internet host use to request the hardware address of an IP address?

- A. Reverse Address Resolution Protocol (RARP)
- B. Address Resolution Protocol (ARP)
- C. BOOTP
- D. Dynamic Host Configuration Protocol (DHCP)

**Answer:** B

#### NEW QUESTION 49

In an active/standby high-availability mode, what causes a standby unit to assume the active role?

- A. Hashed unit iD
- B. management MAC address
- C. resource utilization
- D. heartbeat detection

**Answer:** D

**Explanation:**

<https://supportf5.com/csP/article/K95002127>

#### NEW QUESTION 52

What is a common use of an iRule?

- A. to modify application traffic between the client and server
- B. to create a reusable 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 55

An Administrator enables HTTP keep alive. How does this affect the network?

- A. HTTP connections will remain open longer
- B. Fewer TCP connections will need to be opened
- C. HTTP connections will close when the keep-alive times out
- D. More TCP connections will need to be opened

**Answer:** B

#### Explanation:

[https //en wikipedia org/wiki/HTTPpersistentconnection](https://en.wikipedia.org/wiki/HTTPpersistentconnection)

#### NEW QUESTION 58

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 59

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 63

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 66

A company deploys F5 load balancers to manage a large number of secure applications. The company manage certificates. Which F5 provides this functionality?

- A. iHealthy
- B. BIG-IQ
- C. GTM
- D. LTM

**Answer:** B

#### Explanation:

[https //devcentral \(5 com/articles/what-is-big-iq-26702](https://devcentral.f5.com/articles/what-is-big-iq-26702)

#### NEW QUESTION 70

What should the BIG-IP Administrator configure to perform SSL offloading when the certificate is already imported on the BIG-IP device?

- A. HTTP profile using client SSL profile
- B. Virtual server using client SSL profile configured to use the certificate
- C. Virtual server using server SSL profile configured to use the certificate
- D. HTTP profile using server SSL profile

**Answer:** B

#### NEW QUESTION 72

Which protocol emphasizes reduced latency over reliability?

- A. TCP
- B. UDP
- C. GRE
- D. RSVP

**Answer:** B

#### NEW QUESTION 73

In the Network Map a red diamond appears next to the three member servers in the Virtual Server's pool. The nodes in the pool each show a green circle. What is the most likely reason for this scenario?

- A. The pool members health monitor has been disabled
- B. The pool members have been disabled
- C. The pool members have been powered off
- D. The pool member services have been shut down

**Answer:** D

#### NEW QUESTION 77

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 82

A BIG-IP Administrator needs a solution to tunnel traffic and transmit encrypted connections over the Internet using only a standard browser and common ports and protocols. Which solution should the administrator select?

- A. GRE Tunnel
- B. IPsec VPN
- C. SSH Tunnel
- D. SSL VPN

**Answer:** D

#### Explanation:

This is APMs use of the netscape plugin api (NPAPI) that most browsers have deprecated at this point.

#### NEW QUESTION 87

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 92

What is used to establish trust relationships between BIG-IP devices?

- A. trust ID
- B. device group identification
- C. certificate-based authentication
- D. unit IDs

**Answer:** C

#### NEW QUESTION 93

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 .3 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 required to HTTP requests when configured with HTTPS, so the monitor is failing.

**NEW QUESTION 94**

ATP administrator recently added a new VLAN and needs to confirm that the BIG IP sees traffic on this VLAN. The VLAN is untagged on interface 1.1 and is named VLAN704 in the BIG IP Configuration Unity.

Which tool should be used to generate a packet capture that shows all traffic on this VLAN?

- A. netstat
- B. map
- C. tcpdump
- D. ifconfig

**Answer: C**

**NEW QUESTION 99**

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 100**

Which support service is required to synchronise the time stamps in system logs from these devices?

- A. SNMP
- B. Syslog
- C. SMTP
- D. DNS

**Answer: B**

**NEW QUESTION 103**

Web application <http://www.example.com> at 10.10.1.110, 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 105**

An application has a mix of both short and long lived connections. Which algorithm would provide an even distribution of all connections across the pool?

- A. Priority group activate
- B. Least connections



- C. Static ration
- D. Round robin

**Answer:** B

#### NEW QUESTION 110

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 113

Which method should an administrator of the BIG-IP use to sync the configuration to only certain other BIG-IPs?

- A. synchronize only certain folders
- B. exclude devices from certain Traffic Groups
- C. exclude devices from certain Sync Groups
- D. exclude devices from certain Device Groups

**Answer:** C

#### NEW QUESTION 118

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 sync-only will synchronize ASM profiles and some other device information but does not deal with traffic groups

#### NEW QUESTION 119

What is used to resolve IP address to MAC address mappings?

- A. DHCP
- B. ARP
- C. DNS
- D. ICMP

**Answer:** B

#### Explanation:

[https://enWikipedia.org/wiki/Address\\_Resolution\\_Protocol](https://enWikipedia.org/wiki/Address_Resolution_Protocol)

#### NEW QUESTION 123

What are three functions commonly performed by HTTP cookies? (Choose three)

- A. Track users' browsing activities
- B. hold User preferences
- C. maintain session state
- D. execute client side scripts
- E. execute server side scripts

**Answer:** ABC

#### NEW QUESTION 126

Cryptographic hash functions can be used to provide which service?

- A. data modification
- B. data encryption
- C. data validation
- D. data decryption

**Answer:** C

#### Explanation:

[https://en.wikipedia.org/wiki/Hash\\_function](https://en.wikipedia.org/wiki/Hash_function)

**NEW QUESTION 131**

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 134**

An administrator needs to rapidly deter e 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 137**

If a workstation is configured with an address of 224 0.0.1 which functionality will it allow?

- A. loopback to itself
- B. broadcasting to the local subnet
- C. multicasting to the local subnet
- D. automatic private IP addressing

**Answer:** C

**Explanation:**

[https://en.wikipedia.org/wiki/Multicast\\_address](https://en.wikipedia.org/wiki/Multicast_address)

**NEW QUESTION 142**

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