

# **F5-Networks**

## **Exam Questions 101**

Application Delivery Fundamentals



#### NEW QUESTION 1

TI SSSL prides which functionary when a web browser connects to web site using the HTTPS protocol?

- A. delivers secure communication over a network connection
- B. prevents the web server from being compromised
- C. protects network packets from interception by intermediaries
- D. stop the web browser from automatically downloading malware

**Answer: A**

#### NEW QUESTION 2

What does the HTTP status code 404 mean?

- A. Not Acceptable
- B. Forbidden
- C. Request Timeout
- D. Not found

**Answer: D**

#### 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

An administrator needs to allow secure access to application within the corporate data center for remote office, branch office and mobile employees. Which F5 product provides this functionally?

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

**Answer: A**

#### NEW QUESTION 5

What is the primary function of a certificate authority?

- A. to expire outdated certificates
- B. to verify and validate certificates
- C. to store security certificates
- D. to sign certificate signing requests

**Answer: D**

#### Explanation:

[https://enWikipedia.org/wiki/Certificate\\_authority](https://enWikipedia.org/wiki/Certificate_authority)

#### 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

What is the correct procedure to comply with the recommendation?

- A. Download the product version image from ihealth f5 com
- B. Download the product version image from support 6 com
- C. Download the product version image from dovcentral f5.com
- D. Download the product version image from downloads f5.com

**Answer:** D

**NEW QUESTION 8**

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>

**NEW QUESTION 9**

The users in a company are unable to send and receive SMTP e-mails using the BIG-IP Virtual Server. The administrator logs into the BIG IP device to verify if the mail pool member with an IP address of 192. 168. 10. 100. 18 is serving SMTP traffic. Which command on the BIG-IP device should the administrator use to verify the traffic?

- A. tcpdump - 0 0 host 192 168 10 100 and port 143
- B. curl - 1 smtp1/192 168 10 100
- C. lcpdump - 0:0 host 192. 168. 10. 100 and port 25
- D. telnet 192. 168. 10. 100. 143

**Answer:** C

**NEW QUESTION 10**

Which type of certificate is pre-installed in a web browser's trusted store?

- A. Root Certificate
- B. Server Certificate
- C. Client Certificate
- D. intermediate Certificate

**Answer:** A

**NEW QUESTION 10**

What should the administrator investigate first to address this traffic slowness

- A. The virtual server indicates 14 slow connections killed
- B. The pool member is unchecked
- C. Interface 1.2 shows 9.2K errors
- D. The pool shows no current connections.

**Answer:** C

**NEW QUESTION 12**

An administrator finds a new vulnerability in a web application and needs to rapidly mitigate the threat. Which F5 feature provides this functionality?

- A. iCall
- B. iRules
- C. iSession
- D. iControl

**Answer:** B

#### NEW QUESTION 14

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 15

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 19

An administrator deploys a site in which the load balancer only sees the ingress traffic from the client All egress traffic from the server bypasses the load balancer. Which type of solution is this?

- A. packet forwarding architecture
- B. delayed binding
- C. switching
- D. Full proxy architecture

**Answer:** A

#### NEW QUESTION 20

In which scenario is a full proxy TCP connection required?

- A. TCP routing
- B. IPv4 to IPv6 gateway
- C. UDP routing
- D. UDP to ICMP gateway

**Answer:** B

#### NEW QUESTION 25

What is a primary reason to choose hardware over virtual devices?

- A. failure isolation
- B. HA capabilities
- C. management capabilities
- D. SSL performance

**Answer:** D

#### NEW QUESTION 26

An administrator configures a custom MAC masquerade address on a redundant BIG-IP system What will be the result?

- A. The administrator will be prompted during configuration to define which unit will use the MAC masquerade address
- B. The MAC masquerade address will be concurrently used by both active and standby unit
- C. The MAC masquerade address will only be used by the active unit
- D. The standby unit in use the system's actual interface(s) MAC address
- E. The MAC masquerade address will only be used by the unit with higher unit ID The other unit will use the system's actual interface(s) MAC address

**Answer:** C

#### Explanation:

<https://support.f5.com/cp/article/K13502>

#### NEW QUESTION 29

which version of SNMP can AuthPriv be used?

- A. 2
- B. 3
- C. 2c
- D. 3c

Answer: B

**NEW QUESTION 31**

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 > traffic-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 34**

10:20: 37 .00749:IP 199.16.255.254.36664>10.0.1.10 http : flags (s) seq 700424862, Win 29200

A website is fronted by a load balancer that implements a full proxy architecture with SNAT enabled. Behind the load balancer, there are two nodes: Node 1 and node2.

The administrator is debugging an issue on node 1 using `icpdump` and records the above output about a received packet on a watch device. Does the IP address "192.168.265.254" belong to...

- A. node2
- B. node 1
- C. load balancer
- D. web Client

Answer: C

**NEW QUESTION 39**

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

- 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 41**

An administrator suspects that a BIG-IP appliance is experiencing performance issues due to spikes in CPU usage. The administrator checks the performance report in the BIG-IP UI and CPU spikes are evident in the graphs. Which section in the BIG-IP UI can the administrator check to troubleshoot the issue further?

- A. Statistics > Utilization
- B. System > Utilization
- C. Statistics > Dashboard
- D. System > Services

Answer: C

**NEW QUESTION 46**

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 49**

A user fails to provide credentials when requesting a web resource that requires authentication. Which HTTP response code does the server send?

- A. HTTP 200
- B. HTTP 302
- C. HTTP 401
- D. HTTP 502

Answer: C

**Explanation:**

<https://httpstatuses.com/401>

**NEW QUESTION 53**

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/wiki/Protocol\\_data\\_unit](https://en.wikipedia.org/wiki/Protocol_data_unit)

**NEW QUESTION 56**

Which technology 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 59**

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 63**

A BIG IP administrator is testing a web server behind ADC. The connection to a Virtual Server is successful but the page is still not loading Where should the administrator test to determine if the server is available?

- A. from server-side interface in ADC.
- B. from client side interface in ADC
- C. from Workstation client
- D. from switch connected to ADC and Server

**Answer:** A

**NEW QUESTION 67**

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

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

**Answer:** A

**Explanation:**

[https://en.wikipedia.org/wiki/Protocol\\_data\\_unit](https://en.wikipedia.org/wiki/Protocol_data_unit)

**NEW QUESTION 69**

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 70**

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 72**

What advantage does an active-standby configuration have over an active-active configurations?

- A. Active-standby configuration allows for the backup of the peer configuration
- B. Active-standby utilizes the hardware more efficiently
- C. Active standby Uses significantly less power consumption than active-active
- D. Active-standby is less complex to troubleshoot

**Answer: D**

**NEW QUESTION 74**

Which of the following would happen?

- A. The PC sends a DNS query for 172. 17. 10. 1
- B. The PC sends an ARP looking for the MAC address of 172. 17. 10. 4
- C. The PC sends an ARP looking for the MAC address of 172. 17. 10. 1
- D. The PC sends a DNS query for 172.17.10 4

**Answer: B**

**NEW QUESTION 76**

A user wishes to retries a file from an FTP server  
minimum of how many TCP connections are required to perform this action?

- A. 3
- B. 1
- C. 4
- D. 2

**Answer: D**

**NEW QUESTION 78**

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 81**

What is used to provide mutual authentication for TLS/SSL?

- A. X 509 Certificate
- B. Access List
- C. Shared Secret key
- D. Mutually Trusted issuer

**Answer: A**

**NEW QUESTION 85**

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 88**

Which HTTP response code indicates an OK status?

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

**Answer:** C

**NEW QUESTION 91**

During a TCP three-way handshake, which packet indicates the server's maximum segment (MSS)?

- A. the initial SYN packet
- B. the ACK that completes the three-way handshake
- C. the SYN/ACK packet
- D. the first packet after the three-way handshake

**Answer:** C

**NEW QUESTION 95**

ARP provides translation between which two address types?

- A. IP addresses and hardware addresses
- B. Hardware addresses and VLAN
- C. VLAN and IP addresses
- D. Hostnames and IP addresses

**Answer:** A

**NEW QUESTION 100**

A client needs to learn if a web server supports POST. Which HTTP method is used?

- A. OPTIONS
- B. TRACE
- C. LIST
- D. GET

**Answer:** A

**Explanation:**

<https://developer.mozilla.org/en-US/docs/Web/HTTP/Methods/OPTION>

**NEW QUESTION 102**

The BIG-IP device has the status of interface 2.1 as DOWN. The BIG-IP Administrator. What is the likely reason for the status of the interface to be DOWN?

- A. The interface 3/2/1 is UP on switch
- B. The interface 2.1 is disabled on the BIG-IP device
- C. The interface 3/2/1 is DOWN on switch
- D. The interface 2.1 is unpopulated on the BIG-IP device

**Answer:** C

**NEW QUESTION 105**

Which protocol emphasizes reduced latency over reliability?

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

**Answer:** B

**NEW QUESTION 107**

In 200 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 110

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 111

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 112

A user is trying to access a website using the URL <https://1.1.1.1/> The website fails to load. The user can access other websites. Given the packet capture above, what is the most likely issue?

- A. The remote server is not responding because it is down
- B. The client machine is not connected to the internet
- C. The client machine's DNS is configured incorrectly
- D. The remote server is actively rejecting the connection

**Answer: D**

#### NEW QUESTION 117

A BIG-IP Administrator needs to configure a network to separate traffic into three different VLANs using a single port on the BIG-IP device. What means should be used to allow this?

- A. LACP link aggregation
- B. Multiple MAC registration Protocol
- C. 802.1Q VLAN tagging
- D. Port Spanning

**Answer: C**

#### NEW QUESTION 121

A BIG-P Administrator needs to upload a qkview view to evaluate software upgrade options. Which service should be used?

- A. AskF5
- B. iHeath
- C. DevCentral
- D. F5WedSubOon

**Answer: B**

#### NEW QUESTION 122

In an administrator's environment, the administrator wants to inspect a high volume of SSL traffic What should be used for this task?

- A. Big-IP Global Traffic Manager appliance
- B. Big-IP standard virtual edition
- C. Big-IP Local Traffic Manager appliance

D. Big-IP virtual edition with FIPS

**Answer: C**

**NEW QUESTION 126**

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:ffff
- D. 2001:db8::ffff:ffff:ffff:ffff

**Answer: C**

**NEW QUESTION 128**

HTTP pool attached to a Virtual Server has three members Pool member A default HTTP monitor in red Pool member B custom HTTP monitor in green Pool member C does not monitor  
Which pool members participate in the load balancing?

- A. Pool members A and C
- B. Pool members A B and C
- C. Pool members B and C
- D. Pool members A and B

**Answer: C**

**NEW QUESTION 133**

An administrator needs a data format that supports authentication against an external security domain. The data format must support SSO. Which data format should the administrator choose?

- A. AAA
- B. Kerberos
- C. SAML
- D. EAP

**Answer: C**

**NEW QUESTION 134**

AD VLAN must be created with an 802.1Q 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 trunk add {1 1 (tagged)} tag 705

**Answer: A**

**NEW QUESTION 135**

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

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

**Answer: B**

**NEW QUESTION 140**

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 141**

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

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

**Answer:** B

**NEW QUESTION 146**

How does file caching affect the web application?

- A. It reduces the load on the web application
- B. It speeds up traffic to the web application
- C. It slows traffic to the web application
- D. It increases the load on the web application

**Answer:** A

**NEW QUESTION 147**

The BIG-IP device has the following configured routes:

Which gateway will be chosen to send the packet to the destination 10.238.10.11?

- A. 192.168.10.20
- B. 192.168.10.40
- C. 192.168.10.30
- D. 192.168.10.10

**Answer:** A

**NEW QUESTION 148**

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 151**

Which device type in the topology will forward network packets without an OSI layer 3 address assigned to a data plane interface?

- A. Router
- B. Firewall
- C. Application Server
- D. Switch

**Answer:** D

**NEW QUESTION 155**

What is a primary benefit of employing a load balancer to manage traffic for an application?

- A. It reduces the number of client connections
- B. It provides a more uniform client experience
- C. It allows easy scaling up of the application
- D. It Reduces dropped connections

**Answer:** C

**NEW QUESTION 156**

A company needs to use a custom value when making persistence decisions.Which F5 product provides this functionality?

- A. iControl
- B. (Rules
- C. lApps
- D. (Health

**Answer:** B

**NEW QUESTION 157**

What is one way that a application delivery controller lowers the CPU-load on web servers?

- A. use SSL termination at the application delivery controller
- B. make the application delivery controller function as a Firewall
- C. make the application delivery controller a member of both external and internal VLANs
- D. use cookie persistence on the application delivery controller

**Answer:** A

**NEW QUESTION 159**

Which TransportLayer Security (TLS) extension can be used to enable a single virtual server to serve multiple HTTPS websites in different can be used to enable a single virtual server to server domains?

- A. Session Tickets
- B. OCSP Staping
- C. Server Name indication
- D. Certificate Status Request

**Answer:** C

**NEW QUESTION 160**

An administrator is trying to debug why the 10.0.10.0/24 network is inaccessible from a certain server. The server is able to access the internet Successfully.

The administrator inspects the routing table and ARP table on the affected server. Given the terminal output shown, what could be causing this issue?

- A. The default gateway is not sending ARP responses
- B. The static route for 10. 0.10.0/24 is misconfigured
- C. The local server is unable to receive ARP responses
- D. The default route (0. 0. 0. 0/0) is misconfigured

**Answer:** B

**NEW QUESTION 164**

An administrator needs to protect a web application from cross-site scripting (CSS) exploits. Which F5 protocol provide this functionality

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

**Answer:** A

**Explanation:**

<https://devcentral.f5.com/articles/the-big-ip-application-security-managef-part-1-what-is-the-asm>

**NEW QUESTION 167**

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 168**

What are two examples of network layer protocols? (Choose two)

- A. ARP
- B. TCP
- C. IPv4
- D. BGP
- E. ICMP

**Answer: AE**

**NEW QUESTION 170**

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 174**

An administrator needs to deploy a VON solution that offers data integrity and origin authentication of IP packets. Which solution the administrator use?

- A. IPSecVPN
- B. PPTP
- C. GRE
- D. SSL VPN

**Answer: A**

**NEW QUESTION 178**

A BIG-IP Administrator needs to open a case with F5 Support for a specific issue with an existing HA pair of BIG-IP platform. What should be uploaded to iHealth prior to opening the case to expedite processing of the support case?

- A. UCS file
- B. SCF file
- C. tcpdump file
- D. Qkview file

**Answer: D**

**NEW QUESTION 182**

Which security mode. functions by defining what traffic is allowed and rejecting all other traffic?

- A. context-based access control mode!
- B. role-based access control mode!
- C. negative security model
- D. positive security model

**Answer: D**

**NEW QUESTION 186**

A server is capable of handling more connections than other servers in the same pool. Which load distribution method should the administrator choose?

- A. Least Connections
- B. Fastest
- C. Ratio
- D. Round Robin

**Answer: C**

**NEW QUESTION 191**

An administrator is updating private keys used for SSL encryption from 1024 to 2048 bits. Which possible effect should the administrator consider when performing this activity?

- A. The larger Key size will increase processing requirements
- B. Some hardware will NOT support the 2048 key

- C. Some certificate authorities will NOT support the 2048 key
- D. The larger key size will increase private key installation complexity

**Answer:** A

**NEW QUESTION 196**

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 197**

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 198**

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