

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

What does HTTP status code 500 mean?

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

Answer: B

NEW QUESTION 3

What does the HTTP status code 404 mean?

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

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

A BIG-IP Administrator contacts F5 Support and is asked to upload a Support Snapshot. Which command should be entered to the CLI to generate the requested file?

- A. imsh generate snapshot
- B. tmsh tcpdump
- C. tmsh save sys ucs support
- D. tmsh qkview

Answer: D

NEW QUESTION 6

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 7

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 8

Which OSI layer provides reliable transmission of frames between adjacent nodes and is built on top of the provides reliable transmission of frames adjacent nodes and is built on top of the Physical layer?

- A. Data link
- B. Transport
- C. Network
- D. Application

Answer: A

NEW QUESTION 9

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 10

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/Certificale_authority

NEW QUESTION 10

Which high availability feature allows two different BIG-IP devices to use the MAC address for the same server IP?

- A. HSRP virtual MAC address
- B. Device group
- C. Sync- failover
- D. MAC masquerade

Answer: D

NEW QUESTION 13

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 17

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 19

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 22

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 23

Ethernet frame FCS errors occur when which calculation fails?

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

Answer: B

NEW QUESTION 24

What are 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 26

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 30

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 which device does the IP address 192.168.265.254 belong?

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

Answer: C

NEW QUESTION 31

An administrator notices the following log message generated by a BIG-IP system: "diskmonitor 011d005: Disk partition shared has less than 30% free." Which command should the administrator use to troubleshoot the problem?

- A. parted-1
- B. fdisk-1
- C. isbik
- D. df-h

Answer: D

NEW QUESTION 36

In which layer of the OSI model is the data transported in the form of a packet?

- A. Transport
- B. Session
- C. Network
- D. Presentation

Answer: C

NEW QUESTION 38

A BIG IP Administrator is trying to reach the internal web server from a workstation

- * The workstation has a MAC address of 00:00 00 00 00 01 and an IP address of 192. 168. 0. 1
- * An internal web server has a MAC address of 00 00 00 00 00 02 and an IP address of 10. 10. 1. 1
- * The workstation's default gateway has a MAC address of 00 00 00 00 00 03 and IP address of 192 168 0 254

What is the destination hardware address of the outbound packet when it leaves the workstation?

- A. 00:00:00:00:00:01
- B. 00:00:00 :00:00:00
- C. 00:00:00:00:00:03
- D. 00:00:00:00:00 02

Answer: C

NEW QUESTION 43

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 46

An administrator needs to restore the BIG-IP configuration from a UCS file. In which section in the BIG IP Configuration utility is this task performed?

- A. System > Archives
- B. System > Services > Backup
- C. System > Backup
- D. System > File Management

Answer: A

NEW QUESTION 49

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 50

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 52

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 55

A new web server VLAN has been created and the IP address 10.1.1.1/24 has been assigned to the BIG IP device. The BIG IP Administrator needs to create the

new Self IP and prevent administrator access to the BIG-IP device from the newly created network. Which TMSH command should be used?

- A. create /net self internal address 10 1.1. 1/24 vlan VLAN 10 allow service none.
B. add 'net self internal address 10.1.1. 1/24 vlan VLAN 10 allow-service none
C. create /net self internal address 10. 1. 1. 1/24 vlan VLAN 10 allow service default
D. add /net self internal address 10 111 mask 265. 255. 2550 vlan VLAN 10 allow

Answer: A

Explanation:

White the default differs from version to version, H typically allows HTTP SSH and iQuety for BIG-IP to BIG-IP communication

NEW QUESTION 59

A BIG-IP Administrator needs to make sure that requests from a single user are directed to the server that was initially selected (unless that server is marked down). What should the administrator configure?

- A. caching profile
- B. TCP profile
- C. persistence profile
- D. security policy

Answer: C

NEW QUESTION 61

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

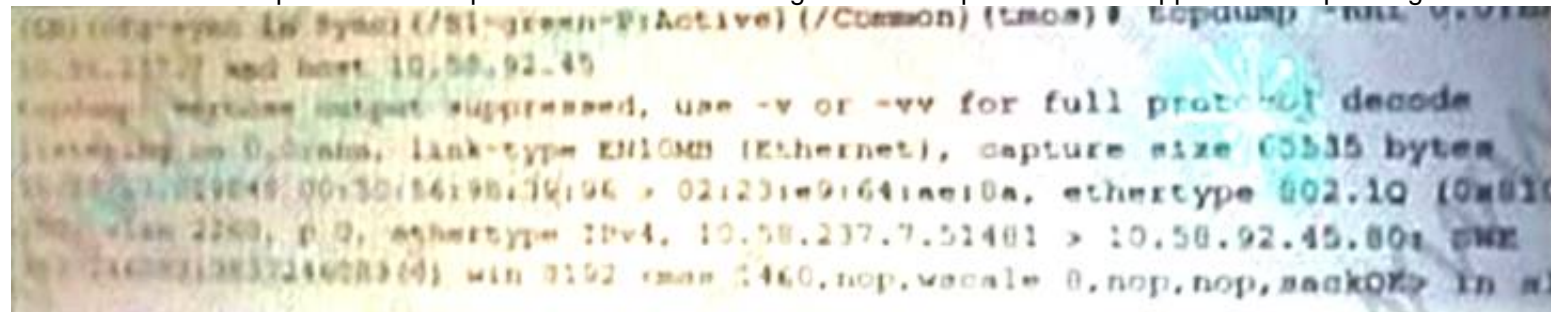
Answer: A

Explanation:

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

NEW QUESTION 65

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 70

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 73

When is the server also a client?

- A. during a passive FTP session
B. during an active FTP session
C. While receiving email
D. While uploading files

Answer: B

NEW QUESTION 78

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 81

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 86

Which three security controls are used in an SSL transaction? (Choose three.)

- A. symmetric encryption
- B. network admission controls
- C. asymmetric encryption
- D. digital certificates
- E. database encryption

Answer: AD

NEW QUESTION 89

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 91

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

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

Answer: D

NEW QUESTION 92

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 93

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 98

A BIG-IP Administrator has a cluster of devices.

What should the administrator do after creating a new Virtual Server on device 1?

- A. synchronize the settings of device 1 to the group
- B. create a new cluster on device 1
- C. create the new virtual server on device 2
- D. synchronize the settings of the group to device 1

Answer: A

NEW QUESTION 102

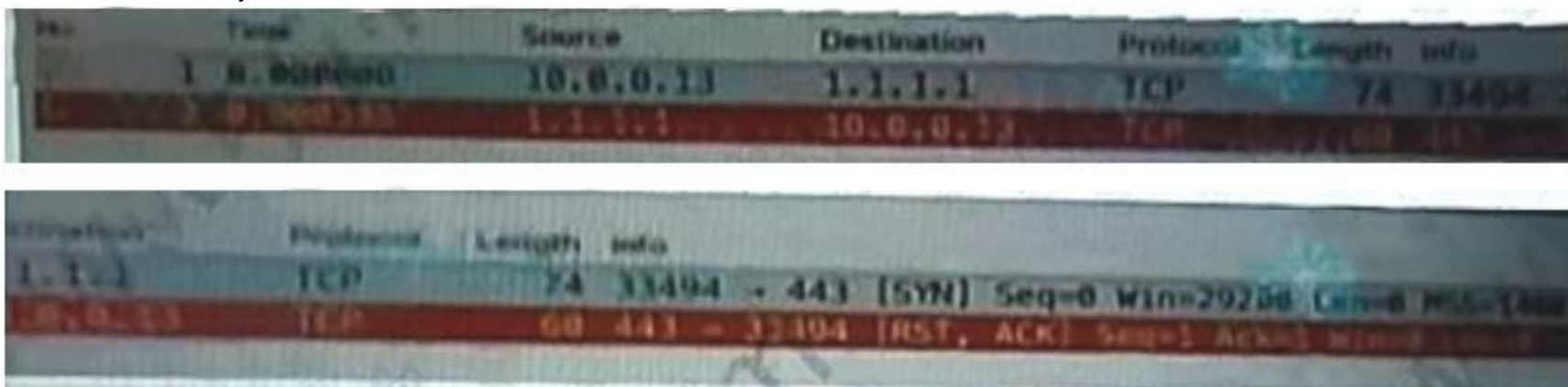
Why is it important that devices in a high availability pair share the same configuration?

- 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 105

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 107

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 108

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 113

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 require HTTP requests when configured with HTTPS, so the monitor is failing.

NEW QUESTION 114

An IPV6 client tries to connect to <http://myserver.com>

What type of DNS request should the client send to its configured server?

- A. type MX
- B. type AAAA
- C. type NS
- D. type A

Answer: B

NEW QUESTION 115

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 120

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 123

What does response code HTTP 302 represent?

- A. The server encountered an unexpected condition that prevented it from fulfilling the request.
- B. The server has not found anything matching the Request URI
- C. The request has succeeded.
- D. The requested resource resides temporarily under a different URI

Answer: D

NEW QUESTION 127

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



- A. Health 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 130

The BIG-IP device has the following configured routes:

Destination	Gateway
10.238.0.0/16	192.168.10.10
10.238.10.0/24	192.168.10.20
10.238.10.10/32	192.168.10.30
default	192.168.10.40

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 133

A BIG-IP Administrator needs to perform a packet capture and identify the source IP that is connecting to the Virtual Server. Which utility should the administrator use on the BIG-IP device?

- A. leinel
- B. traceroute
- C. ping
- D. tcpdump

Answer: D

NEW QUESTION 136

A new virtual server is being tested to replace <http://myapp.mydomain.com>. The original virtual server is still in use. And the new virtual server is on a different IP address. What should be done to test this new virtual server using the fully qualified domain name for this application?

- A. add a DNS record for the fully qualified domain name
- B. add the fully qualified domain name to the browser cache
- C. make an entry in the client host file
- D. make an entry in the web server services file

Answer: C

NEW QUESTION 139

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

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

Answer: A

NEW QUESTION 144

Comment calculator DNS error SERVFAIL. HTTP 404 and SMTP error 550 are all examples of which type of error?

- A. Service
- B. Application
- C. Network
- D. Session

Answer: B

NEW QUESTION 148

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 150

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

NEW QUESTION 154

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