



F5-Networks

Exam Questions 101

Application Delivery Fundamentals

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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

BIG-IP Administrator runs the command `ITconfig` from the BIG-IP command line and sees a high number of collisions. What is the likely cause?

- A. There is a duplicate IP address on the network
- B. A crossover cable has been used
- C. The interface is set to half duplex
- D. Spanning Tree Protocol is blocking the connection

Answer: D

NEW QUESTION 3

in which scenario is a full proxy TCP connection required?

- A. when DNS load balancing is performed
- B. When source NAT is demanded
- C. when the client source IP address is sent to the server
- D. when the client and server connection are decoupled

Answer: D

NEW QUESTION 4

What are the two primary functions of the OSI 7 layer model (Choose two)

- A. to guide interoperability between products made by different vendors
- B. to define protocol behavior
- C. to group communications into logical layers
- D. to define specifications of host-to-host communications
- E. to standardize HTTP communications between different vendors

Answer: AB

NEW QUESTION 5

What does the HTTP status code 404 mean?

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

Answer: D

NEW QUESTION 6

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 7

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 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

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 10

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 13

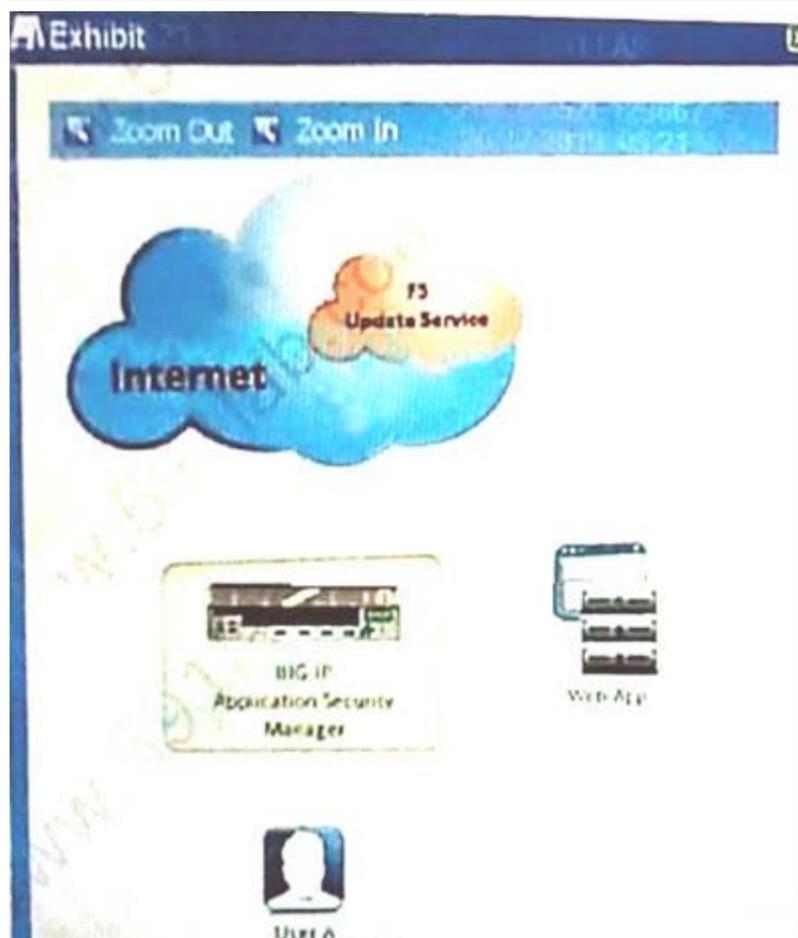
Ethernet frame FCS errors occur when which calculation fails?

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

Answer: B

NEW QUESTION 15

BIG-IP ASM is requesting automatic signature updates from the F5 update service



Who is considered the server in this communication?

- A. BIG-IP
- B. User A
- C. F5 update Service
- D. web application

Answer: C

NEW QUESTION 19

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. What 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 20

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 23

In the context of load balancing, what does the term "persistence" refer to?

- A. Ensuring requests from a single source always end up being handled by the same server.
- B. the ability to associate different HTTP requests to a single user so that activity can be tracked.
- C. Keeping TLS session key information in memory so sessions can be quickly resumed
- D. the ability to keep idle connections open as long as possible by sending dummy traffic periodically

Answer: A

NEW QUESTION 27

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 29

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 33

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 38

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 40

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 44

In which scenario does the client act as a server?

- A. During an active FTP session
- B. When an SMTP connection
- C. During an SMTP connection
- D. When browsing websites

Answer: A

NEW QUESTION 48

What is an advantage of packet forwarding architecture?

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

Answer: B

Explanation:

<https://devcentral.f5.com/questions/packet-and-proxy-based-56526>

NEW QUESTION 49

An IPv4 client tries to access to <http://www.myserver.com>

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

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

Answer: B

NEW QUESTION 52

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 53

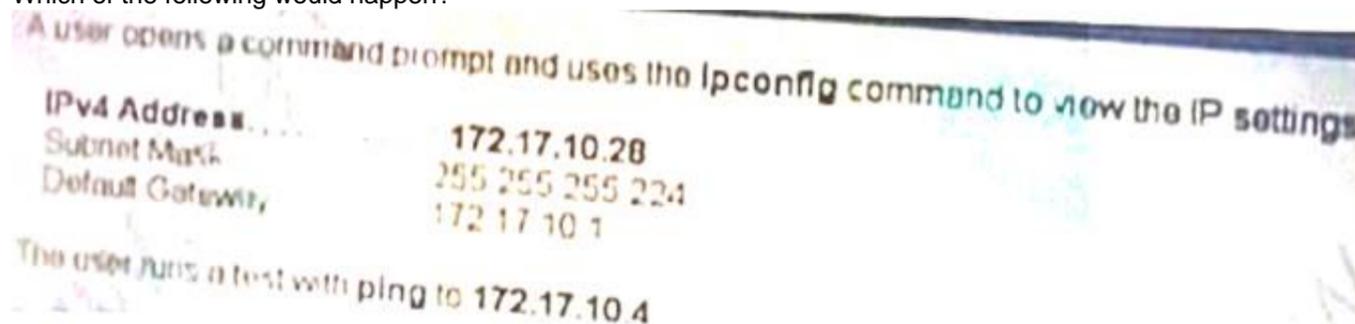
A BIG-IP Administrator needs to create a route to send traffic destined to 10.1.1.1 to another router with an address of 192.168.1.1. Which TMSH command should the administrator use?

- A. create net route 10.1.1.1/32 gw 192.168.1.1
- B. create met route 192.168.1.1/32 gw 10.1.1.1
- C. add met route 192.168.1.1/32 gw 10.1.1.1
- D. add inet route 10.1.1.1/32 gw 192.168.1.1

Answer: A

NEW QUESTION 58

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 60

An administrator needs to prepare change control documents for operations staff. To reduce possible errors, the administrator killed number of default configuration options is choose from. Which F5 feature is intended to help with this task?

- A. iControl
- B. iCatl
- C. iApp
- D. iRules

Answer: A

Explanation:

<https://devcentral.f5.com/iControl>

NEW QUESTION 65

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 66

A device needs to decrypt traffic and send unencrypted traffic to the web server. Which method should the BIG-IP Administrator use?

- A. SSL Optimization
- B. SSL Caching
- C. SSL Termination
- D. SSL Bridging

Answer: C

NEW QUESTION 70

An administrator is designing a remote host connection using an ICMP based network troubleshooting utility and receive an ICMP error diagram with the following error code.

* 11. Times exceeded What does this mean?

- A. A faulty router on the network is unable to process the packet in a timely manner
- B. A switch on the network the frame due to an incorrect checksum
- C. The TTL field of the IP header was set to 255. and this was consequently dropped by a router
- D. The TTL field of the IP header was decremented to 0. and this was consequently dropped by a router

Answer: D

NEW QUESTION 71

Which HTTP response code indicates an OK status?

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

Answer: C

NEW QUESTION 74

Given the service list of a server shown, the administrator needs to determine why users are unable to resolve the IP address www.example.com. What is the causing this issue?

- A. bigd is down
- B. named is down

Answer: B

Explanation:

berkely internetname daemon (DNS) bigd is the health checking daemon

NEW QUESTION 77

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 82

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 85

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 88

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 89

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 94

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 97

Which security model provides protection from unknown attacks?

- A. ACL Security model
- B. closed security model
- C. Negative security model
- D. Positive security model

Answer: D

Explanation:

https://www.owasp.org/index.php/Positive_security_model

NEW QUESTION 99

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 100

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 103

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

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

Answer: C

NEW QUESTION 105

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 110

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 112

An administrator needs to lower .he amount of new TCP connections to help with network congest? 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 113

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 115

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

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

Answer: B

NEW QUESTION 119

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 123

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 /28 contains 14 usable IPs and a /27 contains 30 usable IPs

NEW QUESTION 125

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

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

Answer: A

Explanation:

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

NEW QUESTION 126

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 130

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 132

A VoIP application requires that data payloads will NOT be fragmented. Which protocol controls network behavior in this situation?

- A. RTSP
- B. UDP
- C. TCP
- D. IP

Answer: A

NEW QUESTION 133

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 135

In which scenario is a packet forwarding architecture required?

- A. when HTTP header must be modified
- B. when cookie persistency is demanded
- C. when the server responds directly to the client
- D. when the number of TCP connections on the server should be reduced

Answer: C

NEW QUESTION 140

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 145

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