



F5-Networks

Exam Questions 101

Application Delivery Fundamentals

NEW QUESTION 1

A load balancing decision needs to be made based on custom a What is the most appropriate F5 feature (or this purpose?

- A. iApps
- B. Scale
- C. iControl
- D. iRules

Answer: D

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

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 functionality?

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

Answer: A

NEW QUESTION 4

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 5

Client traffic for a web application is managed by load balancers in a high availability configuration. After a failover event all clients are 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 6

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 7

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 8

Which FTP mode should be used by a client behind a firewall that has no special configurator?

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

Answer: A

NEW QUESTION 9

Which command should a BIG-IP Administrator use to resolve the domain www. F5.com?

- A. grep
- B. ping
- C. dig
- D. find

Answer: C

NEW QUESTION 10

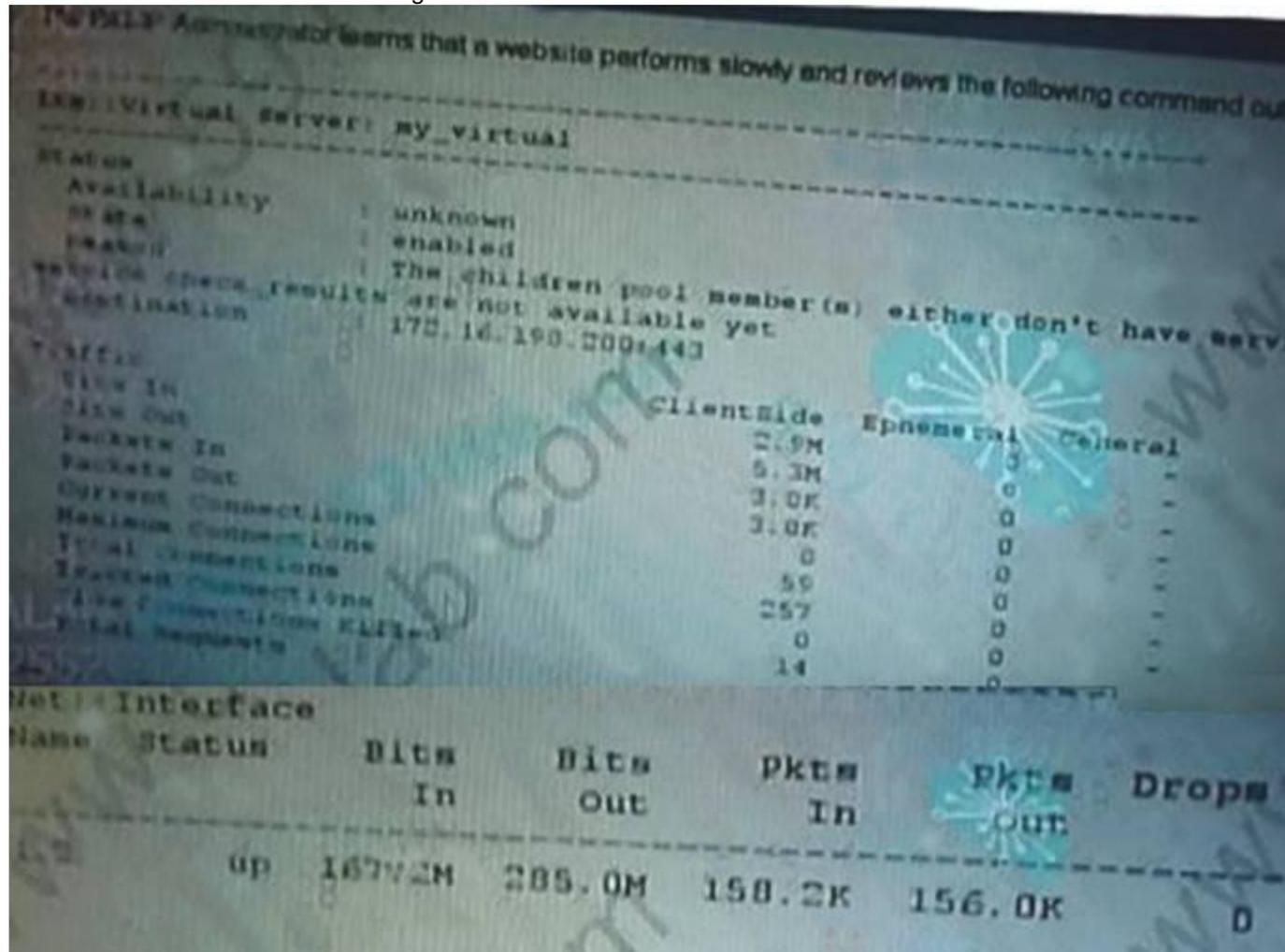
The users in a company are unable to send and receive SMTP e-mails using the BIG-IP Virtual Server. The administrator logs into the BIG IP device to verify if the mail pool member with an IP address of 192. 168. 10. 100. 18 is serving SMTP traffic. Which command on the BIG-IP device should the administrator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

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

Answer: C

NEW QUESTION 10

What should the administrator investigate first to address this traffic slownes



- 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 11

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 15

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 20

which version of SNMP can AuthPriv be used?

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

Answer: B

NEW QUESTION 23

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 26

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 31

An administrator suspects that a BIG IP appliance is experiencing performing issue due to spikes in CPU usage checks the performance issues does to spikes in CPU usage checks the performance report in the BIG-IP UI on 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. Statics > Dashboard
- D. System > Services

Answer: C

NEW QUESTION 32

In wh.ch 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 36

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 41

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 42

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 44

A BIG IP Administrator wants to add a new VLAN (VLAN 40) to an LACP trunk (named LACP01) connected to the BIG IP device, Multiple other VLANs exist on LACP01. Which TMSH command should the BIG IP Administrator issue to add the new VLAN to the existing LAC?

A BIG IP Administrator wants to add a new VLAN (VLAN 40) to an LACP trunk (named IACP01) connected to the BIG IP device Multiple other VLANs exist on LACP01. Which TMSH command should the BIG IP Administrator issue to add the new VLAN to the existing LAC?

- A. create net vlan VIAN40 (interfaces replace all with {LACP01 (untagged) } } lag 40)
- B. create net vian VLAN40 (interfaces add { LACP01 {tagged} tag JO J
- C. create net vian VLAN40 {interfaces add (LACP01 {untagged}) tag 40}
- D. create net wan VLAN40 {interfaces replace all with {LACP01 {tagged }} lag 40 }

Answer: B

Explanation:

Tagged" VLAN is how F5 refers to a VIAN within an 802.1q trunk. The fact that it is an FS trunk' or an LACP/etherchannel link only changeshowthe interface is referred to in the command.

NEW QUESTION 45

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 47

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

NEW QUESTION 51

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 55

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 60

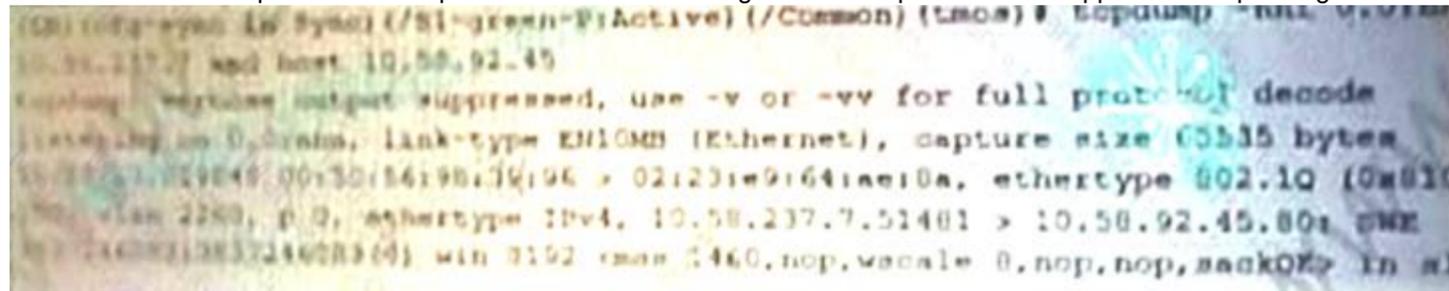
A client's operating system needs to make sure that data received from a server is mapped to the application that requested it. How does it complete this mapping?

- 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 62

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 67

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 71

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

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

Answer: D

Explanation:

<https://support.f5.com/csp/article/K83419154>

NEW QUESTION 74

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 76

in which scenario is a full proxy TCP connection required?

- A. when compression is actuated
- B. When Source NAT configured
- C. when a virtual server is configured
- D. When Source IP persistence is required

Answer: A

Explanation:

<https://devcentral.f5.com/articles/the-full-proxy-data-center-architecture>

NEW QUESTION 80

A user wishes to retrieve 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 82

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 86

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

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

Answer: CD

NEW QUESTION 88

An administrator encounters an error while working on a BIG-IP device and contacts F5 Support to open a case. While opening the case Support of the administrator that a BIG-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 Contract Renewal
- C. End of Technical Support
- D. End of Return to Manufacturing

Answer: A

NEW QUESTION 91

Which HTTP response code indicates an OK status?

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

Answer: C

NEW QUESTION 96

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 99

ICMP is used by which command line tool?

- A. curl
- B. tcpdump
- C. traceroute
- D. nslookup

Answer: C

NEW QUESTION 104

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 causing this issue?

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

Answer: B

Explanation:

berkeley internetname daemon (DNS) `bigd` is the health checking daemon

NEW QUESTION 109

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

- A. BIG-IP
- B. GTW
- C. iHealth
- D. LTM

Answer: A

NEW QUESTION 113

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 114

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 116

A server is operating on the network `10.100/24`. The BIG-IP device is operating on the `192.168.0.0/24` net. What is required to enable the server and BIG-IP device to communicate properly?

- A. Firewall
- B. Switch

- C. Router
- D. Hub

Answer: C

NEW QUESTION 119

Which protocol emphasizes reduced latency over reliability?

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

Answer: B

NEW QUESTION 122

Which Datalink sublayer has the primary function of providing node-to-node flow and error control?

- A. LLC
- B. ARP
- C. MAC
- D. UDP

Answer: A

Explanation:

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

NEW QUESTION 125

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 126

An administrator is given the IP Address of 192.168.100.124 and needs 64 subnets. How many hosts per network are allowed?

- A. 4
- B. 8
- C. 6
- D. 2

Answer: D

NEW QUESTION 128

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 130

An administrator connects two devices using an Ethernet cable. The link fails to come up on either device, which setting could prevent the link from being established?

- A. Proxy settings
- B. IP configuration
- C. Link speed
- D. DNS resolvers

Answer: C

NEW QUESTION 131

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 136

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

Wh.cn 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 137

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. 27networks each with 30 hosts

Answer: C

NEW QUESTION 142

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 146

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 149

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 151

Which protocol could be used to provide AAA Accounting?

- A. karberos
- B. SAML
- C. DIAMETER
- D. LDAP

Answer: C

Explanation:

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

NEW QUESTION 156

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 157

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 162

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 166

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. time
- B. ntpdate
- C. date
- D. ntpq

Answer: D

Explanation:

ntpq -pn will show the synchronization status of configured ntp servers

NEW QUESTION 167

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 172

What is one way that an 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 177

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 179

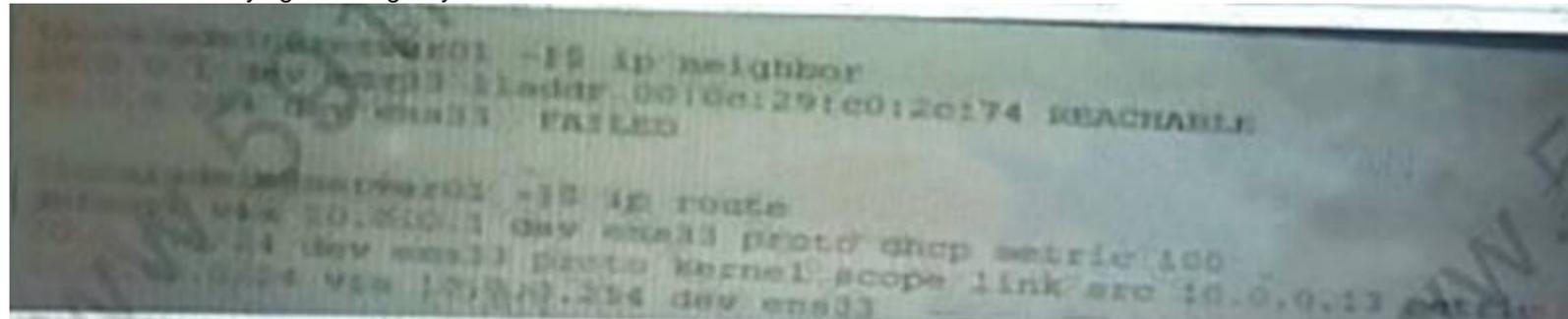
What are three functions commonly performed by HTTP cookies? (Choose three)

- 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 183

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 185

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

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

Answer: AE

NEW QUESTION 186

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 191

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 192

An administrator needs to rapidly deter 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 195

A BIG-IP administrator is interested in using some of the vCMP. What should impact the administrator's decision?

- A. vCMP is available on all F5 hardware platforms.
- B. vCMP is only available on the virtual edition
- C. vCMP is hardware independent
- D. vCMP is only available on certain F5 platforms

Answer: D

NEW QUESTION 197

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 199

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 202

The use of attack signature within an intrusion Detection System (IDS) is an application of which security model?

- A. Positive
- B. Context-based
- C. Negative
- D. Role-based

Answer: C

Explanation:

<https://www.dosarrpst.com/ddos-blog/the-difference-between-positive-and-negative-waf/>

NEW QUESTION 205

In IPv4 the loopback IP is 127.0.0.1. In IPv6, what is the loopback address?

- A. FE80::1
- B. FF8Q 0.0 : :1
- C. 2001 :: 127 :: 1
- D. :: 1

Answer: D

NEW QUESTION 209

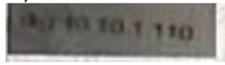
Web application <http://www.example.com> at 10.10.1.1:80 is unresponsive.

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

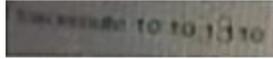
A)



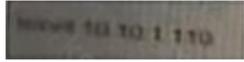
B)



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 210

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