



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

What describes the third "A" in the common authentication acronym AAA?

- A. provides redundancy
- B. measures usage against an identity
- C. provides user filtered access
- D. ensures the correct identity

Answer: C

NEW QUESTION 3

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 4

in which scenario is a full proxy required?

- A. When a separation between client and server connection is needed
- B. When administration directly access the servers for administration
- C. when the server sends the response through the 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-cant-do-unless-its-a-full-proxy>

NEW QUESTION 5

An administrator needs to assess an LTM for potential configuration issues and required security updates. Which F5 website can automate this task?

- A. addf5f5.com
- B. ihealth5.com
- C. Devcentral f5.ccom
- D. www.f5.Com

Answer: B

Explanation:

<https://www.f5.com/services/support/support-offerings/big-ip-ihealth-diagnostic-tool>

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

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

HTTPs traffic is not working properly. What is the likely reason for the issue?

- A. 0.0.0.0 is an invalid address in netstat.
- B. 0.0.0.0:80 should be in an active state
- C. The server is not listening on TCP 443
- D. The server is not listening on UDP 80

Answer: C

NEW QUESTION 9

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 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://en.wikipedia.org/wiki/Certificate_authority

NEW QUESTION 10

A BIG-IP Administrator is trying to send traffic to a server on the same subnet and sees an incomplete in the BIG-IP devices ARP table. What could cause the incomplete status?

- A. BIG-IP device connection is half-duplex
- B. Router does not have a default gateway
- C. Firewall is blocking ICMP
- D. Server's switch connection is in the wrong VLAN

Answer: D

NEW QUESTION 12

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 14

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 16

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 18

What is the next hop used to send traffic to reach 192.168.1.50?

- A. 172. 17. 12. 51
- B. 192. 168. 150
- C. 172. 17. 12.254
- D. 172. 17. 12/ 255

Answer: C

NEW QUESTION 21

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 24

An administrator takes a capture of five Traffic using tcpdump. The administrator notices that different ephemeral port numbers are architecture does this indicate?

- A. packet-based architecture
- B. full proxy architecture
- C. hub and spoke architecture
- D. ring network architecture

Answer: B

NEW QUESTION 27

A Network Administrator needs a new networking device can perform NAT to connect several devices on a computer network. What is the most appropriate device for this requirement?

- A. Switch
- B. Router
- C. Bridges
- D. Hub

Answer: B

NEW QUESTION 31

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 34

An administrator needs to create a structured application delivery configuration that will prevent individual objects from being modified directly Which F5 technology should the administrator use?

- A. iRules

- B. iApps
- C. iSessions
- D. iContfol

Answer: B

NEW QUESTION 35

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 39

Ethernet frame FCS errors occur when which calculation fails?

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

Answer: B

NEW QUESTION 44

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 will 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 48

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 52

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 56

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 60

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 61

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 65

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 67

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 70

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 71

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 75

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 80

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 82

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 85

Exhibit.

the Web application Server made a query to the Database to present dynamic content for a user who would be the client?

- A. The User
- B. The Big-IP
- C. The Database
- D. The Web application server

Answer: D

NEW QUESTION 90

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 94

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 97

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 100

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 103

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 106

What should a BIGIP Administrator configure to provide remote access and ensure data privacy?

- A. Security policy
- B. Packet filter
- C. VPN
- D. GRE

Answer: C

NEW QUESTION 110

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 115

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 118

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 119

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 121

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 123

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 128

A BIG-IP Administrator observes that the pool member status is a blue square. What does this status indicate?

- A. The object is available
- B. The availability of the object is unknown.
- C. The object has reached its configured connection limit
- D. The object is unavailable.

Answer: B

NEW QUESTION 132

Which function does a caching profile provide on the BIG-IP server?

- A. caches client IP addresses to improve response times

- B. caches HTTP headers to improve server load times.
- C. caches selected pool members to improve load balancing times.
- D. caches data for reuse to cut down on transfer time for future requests

Answer: D

Explanation:

The ltmcache profile is a memory cache of data from pool members

NEW QUESTION 133

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 137

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 141

An administrator needs to do the following

- * install a load balancer in front of an existing application
- * test application performance
- * avoid reconfiguration of the application server
- * avoid interruption of users accessing the application

- A. modify the test client's local host file
- B. modify the DNS Server A-record for the application
- C. configure IP Anycasting
- D. configure Port Address Translation

Answer: A

NEW QUESTION 144

What is a benefit of configuring BIG-IP devices in active-active high availability mode?

- A. avoid Overload on the BIG-IP system in the event of a failover
- B. allows full utilization of hardware purchased
- C. reduces troubleshooting complexity
- D. provides ability to upgrade a member of the pair without disruption

Answer: B

NEW QUESTION 148

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 149

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 150

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 153

ICMP is used by which command line tool?

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

Answer: C

NEW QUESTION 157

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 159

Which of the following is a valid IP address and prefix length?

- A. 192. 168.:0 177/25
- B. 192 168:0. 129/25
- C. 192.168:0 128/25
- D. 192 168 :0 255/25

Answer: B

NEW QUESTION 163

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 165

Which two destination pods should be used in a default active FTP Session? (Choose two)

- A. UDP 20
- B. TCP 20
- C. TCP 22
- D. TCP 21
- E. UDP 21

Answer: BD

Explanation:

[https //slacksite.com/other/ftp.html](https://slacksite.com/other/ftp.html)

NEW QUESTION 169

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

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

Answer: D

NEW QUESTION 172

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 177

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 178

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 181

Which protocol emphasizes reduced latency over reliability?

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

Answer: B

NEW QUESTION 186

An administrator configures secure remote access to a server's shell. Given the netstat output, what did the administrator configure?

- A. telnet
- B. allowing connections only from IP address 10.1.10.46
- C. ssh
- D. listening on IP address 10.1.10.46
- E. ssh
- F. allowing connections only from IP address 10.1.10.46
- G. telnetd listening on IP address 10.1.10.46

Answer: B

Explanation:

Although it appears telnet is configured in this example (!) it is listening on all IP addresses of the system while ssh (port 22) is only on the 10.1.10.46 address.

NEW QUESTION 188

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 190

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 195

In 2001: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 199

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 200

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 202

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

- A. AskF5
- B. iHealth
- C. DevCentral

D. F5WedSubOon

Answer: B

NEW QUESTION 207

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 210

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 215

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 218

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 223

A BIG IP Administrator needs to create a virtual server for a new secure end-to-end web application. After a change in configuration, the virtual server is 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 respond to HTTP requests when configured with HTTPS, so the monitor is failing.

NEW QUESTION 228

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 232

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 237

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 241

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

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

Answer: D

Explanation:

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

NEW QUESTION 243

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 246

An administrator needs to lower the amount of new TCP connections to help with network congestion. 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 249

Layer 2 mapping information is announced by an interface without receiving a request for the mapping first. Which term describes this event?

- A. ICMP
- B. STP
- C. gratuitous ARP
- D. ARP

Answer: C

NEW QUESTION 250

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 255

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

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

Answer: B

NEW QUESTION 258

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 263

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

NEW QUESTION 267

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 268

At which layer of the OSJ model does the DNS resolution process occur?

- A. Layer 7
- B. Layer 4

- C. Layer 2
- D. Layer 3

Answer: A

NEW QUESTION 269

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 274

If there are multiple applications authenticated against a single identity store, which technology solution will simplify access to all applications?

- A. RADIUS
- B. single sign on
- C. multifactor authentication
- D. LDAP

Answer: B

NEW QUESTION 277

What is a disadvantage of running a visualized load balancer?

- A. more expensive than a hardware load balancer
- B. slower than a hardware load balancer
- C. less reliable than a hardware load balancer
- D. does not support high availability

Answer: B

NEW QUESTION 281

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 284

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 286

A new virtual server is being tested to replace <http://myapp.mydomain.com>. The original virtual server is still on 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 290

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 294

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

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

Answer: AE

NEW QUESTION 298

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 300

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 305

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/](https://developer.ibm.com/answers/questions/37253/what-is-the-difference-between-the-ah-and-esp-port/)

NEW QUESTION 306

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 309

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 312

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 317

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 322

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-s-negatto-wafi>

NEW QUESTION 327

An administrator needs to provide access to corporate resources for remote users. The administrator also needs to verify that the remote user has anti-virus software installed. Which F5 product provides this functionality?

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

Answer: B

NEW QUESTION 332

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