

Exam : **101**

Title : Application Delivery
Fundamentals Exam

Vendor : F5

Version : V13.25

NO.1 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 ltm cache profile is a memory cache of data from pool members

NO.2 Which HTTP response code indicates an OK status?

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

Answer: C

NO.3 A web administrator has added content to a web application, but users are unable to access the new content. What could be preventing them from accessing the content?

- A. The webapp uses negative security, and the attack signature is using an invalid regular expression
- B. The webapp uses positive security, and the signatures database has not been updated
- C. The webapp uses positive security, and the new content has not been defined as allowed behavior
- D. The webapp uses negative security, and the denial of service signatures have not been updated

Answer: C

NO.4 Which HTTP response code is returned when a web server requires authentication to access a resource?

- A. 500
- B. 401
- C. 302
- D. 100

Answer: B

NO.5 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/>

NO.6 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

NO.7 Which method should an administrator of the BIG-IP use to sync the configuration to only certain other BIG-IPs?

- A. synchronize only certain folders
- B. exclude devices from certain Traffic Groups
- C. exclude devices from certain Sync Groups
- D. exclude devices from certain Device Groups

Answer: C

NO.8 What should a BIG-IP Administrator configure to minimize impact during a failure?

- A. MAC masquerading
- B. Clone pool
- C. External monitors
- D. One Connect profile

Answer: A

NO.9 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

NO.10 What is a primary benefit of employing a load balancer to manage traffic for an application?

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

Answer: C

NO.11 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

NO.12 ICMP is used by which command line tool?

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

Answer: C

NO.13 An administrator needs to lower the 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

NO.14 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

NO.15 A load balancer receives a TCP SYN packet from a client and immediately sends the packet on to a server.

This is an example of which type of solution?

- A. packet forwarding architecture
- B. Full proxy architecture
- C. TCP compression
- D. TCP optimization

Answer: A

NO.16 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 White the default differs from version to version, H typically allows HTTP SSH and iQuety for BIG-IP to BIG-IP communication

Answer: A

NO.17 A company would like to create a web service for multiple data centers (US EU, ASia) where each data center uses the same IP address Requests will be routed to the closest data center. Which address type is the appropriate solution?

- A. Broadcast
- B. Unicast
- C. Anycast
- D. Micest

Answer: C

NO.18 User A and User B's workload are on the same VLAN, but connected through a transparent layer 2 bridge in use B's ARP table. Which MAC address is reported for user A's workstation?

- A. The physical port MAC address on the bridge for user A's workstation
- B. The MAC address of the 12 bridge
- C. The MAC address of User A's workstation
- D. The physical port MAC address on the bridge for user B*s workstation

Answer: D

NO.19 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

NO.20 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

NO.21 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

NO.22 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

NO.23 Which function does the Presentation Layer provide?

- A. translation and encryption
- B. transmission over a medium
- C. internetworking capabilities
- D. access to available resources

Answer: A

NO.24 "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 test-vlan interfaces replace all with {12}
- D. modify /net test-vlan interfaces {1.2}

Answer: C

NO.25 A VLAN must be created with an 802.1Q tag of 705 on interface 1.1. 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 (1.1 {tagged})
- C. add /net vlan internal interfaces add (1.1) tag 705
- D. add /net vlan internal trunk add {1.1 (tagged)} tag 705

Answer: A

NO.26 An administrator is designing a remote host connection using an ICMP based network troubleshooting utility and receives 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

NO.27 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

NO.28 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

NO.29 What are the two primary functions of the OSI 7-layer model? (Choose two)

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

Answer: A,E

NO.30 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

NO.31 An administrator security policy defines allowed URLs, file types and parameter values Which security model is the administrator using?

- A. negative security model
- B. Closed security model
- C. positive Security model
- D. ACL Security model

Answer: C

Explanation:

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

NO.32 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

NO.33 An administrator needs to protect a web application from cross-site scripting (CSS) exploits. Which F5 protocol provide this functionality

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

Answer: A

Explanation:

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

NO.34 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: B,C

NO.35 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

NO.36 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

NO.37 Refer ex

Port	Status	Bytes In	Bytes Out	Pkts In	Pkts Out	Drops	Errors	Media
1-1	up	10.80	119.9M	10.7M	220.5K	27.7M	0	1000T-FD
1-2	down	0	0	0	0	0	0	none
1-3	down	0	0	0	0	0	0	none
1-4	down	0	0	0	0	0	0	none
1-5	down	0	0	0	0	0	0	none
1-6	down	0	0	0	0	0	0	none
1-7	down	0	0	0	0	0	0	none
1-8	down	0	0	0	0	0	0	none
2-1	down	0	0	0	0	0	0	none
2-2	down	0	0	0	0	0	0	none
2-3	down	0	0	0	0	0	0	none
2-4	down	0	0	0	0	0	0	none
Reset	up	220.20	42.40	141.9M	20.2M	0	0	none

A. There is no SFP plugged into the port.

Answer: A

NO.38 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

NO.39 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

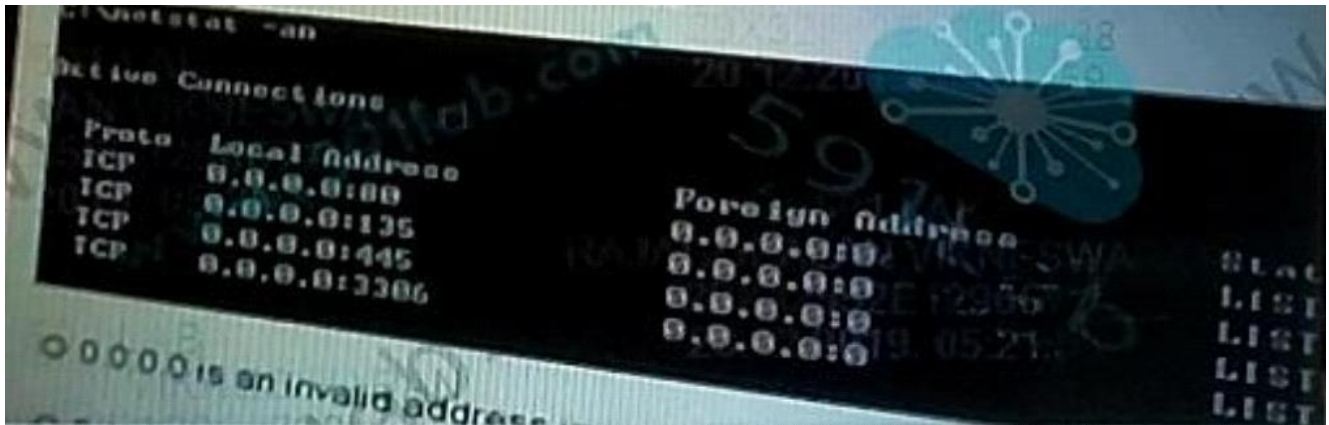
C. vCMP is hardware independent

D. vCMP is only available on certain F5 platforms

Answer: D

NO.40 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

NO.41 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
- a /28 contains 14 usable IPs and a /27 contains 30 usable IPs

Answer: D

NO.42 Which two protocols are used for the retrieval of email? (Choose two)

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

Answer: C,D

NO.43 An application has a mix of both short and long lived connections. Which algorithm would provide an even distribution of all connections across the pool?

- A. Priority group activate
- B. Least connections
- C. Static ration
- D. Round robin

Answer: B

NO.44 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

NO.45 An administrator is performing a capture from a lagged port on an Ethernet SWITCH. Which OSI layer should be inspected to determine with which VLAN a datagram is associated?

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

Answer: B

NO.46 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 several and BIG-IP device to communicate properly?

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

Answer: C

NO.47 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

NO.48 Which Transport Layer 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

NO.49 What does response code HTTP 302 represent?

- A. The server encountered an unexpected condition that prevented it from Milling the request.

- B. The server has not found anything matching the Request URI
- C. The request has succeeded.
- D. The requested resource resides temporary under a different URI

Answer: D

NO.50 Which Datalink sublayer has the primary function of providing node-to-node flow and error control?

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

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

Answer: A

NO.51 In a fully proxy architecture, what is considered the client in the server-side communications?

- A. the ADC
- B. the switch
- C. the server
- D. the client workstation

Answer: A

NO.52 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>

NO.53 A BIG-IP Administrator wants to add a new VLAN (VLAN 40) to an LACP trunk (named LACP01) connected to the BIG-IP device. Which TMSH command should the BIG-IP Administrator issue to add the new VLAN to the existing LACP trunk?

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

Answer: B

NO.54 What tool should the BIG-IP Administrator use to view the status of all virtual servers and associated resources in one place?

- A. System performance

- B. Network Map
- C. Pool statistics
- D. Virtual server statistics

Answer: B

NO.55 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

NO.56 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

NO.57 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?

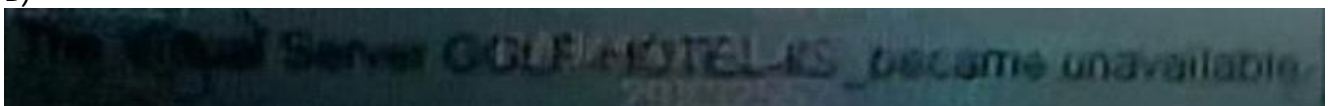
- A. ACK only packets that are in order
- B. drop all packets and wait for arrival in order
- C. drop any packets that arrive out of order
- D. ACK all packets and place them in order

Answer: D

NO.58 A)



B)



C)



A. Option

B. Option

C. Option

Answer: A

NO.59 TLS 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

NO.60 in which scenario is a full proxy TCP connection required?

A. when SIP UP P load balancing is defined

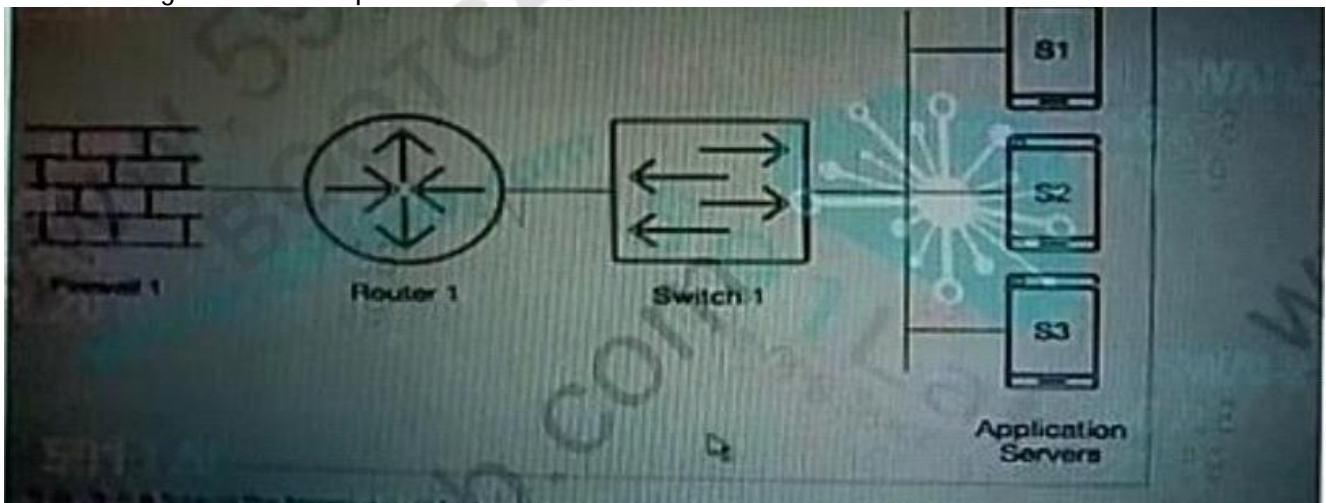
B. when DNS load balancing is configured

C. when compression is enabled

D. when layer 3 load balancing is configured

Answer: C

NO.61 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

NO.62 What does the 5XX group of HTTP status codes indicate?

A. Redirection

B. Successful

C. Client Error

D. Server Error

Answer: D

NO.63 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

NO.64 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

NO.65 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 Core1 to Branch1
- B. a route for 0.0.0.0/0 on Core1 to Branch1, and a route (or 192.168.1.0/24 from Branch1 to Core1)
- 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

NO.66 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

NO.67 HTTPS traffic is being passed from behind a NAT router, through a load balancer, to servers without being decrypted.

What is the F5-recommended persistence method in this situation?

- A. SSL session ID persistence
- B. source address persistence

- C. SIP persistence
- D. destination address persistence

Answer: A

NO.68 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

NO.69 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

NO.70 A BIG-IP Administrator needs to open a case with F5 Support for a specific issue with an existing HA pair of BIG-IP platform. What should be uploaded to iHealth prior to opening the case to expedite processing of the support case?

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

Answer: D

NO.71 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

NO.72 An administrator needs to selectively compress HTTP traffic based on geographical location Which FS Feature should the administrator use?

- A. One Connect
- B. iRules
- C. SPDY profile

D. iSessions

Answer: B

NO.73 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: B,D

Explanation:

<https://slacksite.com/other/ftp.html>

NO.74 Without decrypting, what portion of an HTTPS session is visible with a packet capture?

A. Source IP Address

B. HTTP Request Headers

C. Cookies

D. HTTP Response Headers

Answer: A

NO.75 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

NO.76 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

This is APMs use of the netscape plugin api (NPAPI) that most browsers have deprecated at this point.

Answer: D

NO.77 What advantage does an active-standby configuration have over an active-active configurations?

A. Active-standby configuration allows for the backup of the peer configuration

B. Active-standby utilizes the hardware more efficiently

C. Active standby Uses significantly less power consumption than active-active

D. Active-standby is less complex to troubleshoot

Answer: D

NO.78 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

NO.79 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>

NO.80 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

NO.81 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

NO.82 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

NO.83 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: A,B,C

NO.84 At which layer of the OSI model does the DNS resolution process occur?

- A. Layer 7
- B. Layer 4
- C. Layer 2
- D. Layer 3

Answer: A

NO.85 An organization needs to cryptographically sign its domains. Which F5 product provides this functionality?

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

<https://devcentral.f5.com/articles/the-tNg-ip-gtm-configuring-dnssec>

Answer: A

NO.86 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

NO.87 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

Reference <https://devcentral.f5.com/articles/three-things-your-proxy-cant-do-unless-its-a-full-proxy>

Answer: A

NO.88 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

NO.89 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

NO.90 A new VLAN segment has been added to the network. Only the existing connected interface may be used. What should the BIG-IP Administrator do to allow traffic to both the existing and the new VLAN?

- A. configure VLAN with Link Aggregation Control Protocols (LACP)
- B. configure a tagged VLAN
- C. configure an untagged VLAN
- D. configure VLAN to use interface with Multiple Spanning Tree Protocol (MSTP)

Answer: B

NO.91 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>

NO.92 An administrator receives an error message when attempting to create a self-IP address on a BIG-IP appliance. Which address should the administrator use to resolve the issue?

A. 2001:0db8:85a3:0000:0000:8a2e:0370:7334

B. 2001:db8:85a3:Bd3:Ba2e:370:7334

C. 2001:0db8:85a3:0000:0000::8a2e:0370:7334

Answer: A

NO.93 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

NO.94 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>

NO.95 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

NO.96 In which FTP mode is the server responsible for initiating the data connection back to the client?

A. Protected FTP

B. Active FTP

C. Secure FTP

D. Passive FTP

Answer: B

Explanation:

<https://support.f5.com/csp/article/K08859735>

NO.97 Where is the MAC masquerade address configured?

- A. Virtual Server
- B. Virtual Address
- C. Device Groups
- D. Traffic Groups

Answer: D

NO.98 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>

NO.99 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

NO.100 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
- berkely internet name daemon (DNS) bigd is the health checking daemon

Answer: B

NO.101 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: A,B

NO.102 In IPv4 the loopback IP is 127 0.0.1. or IPv6, what is the loopback address?

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

Answer: D

NO.103 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

NO.104 Which protocol data unit (POU) is associated with the OSI model's Network layer

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

Answer: B

NO.105 What is the nest hop used to send traffic to reach 192.168.1.50?

Destination	Netmask	Gateway	Interface	Metric
0.0.0.0	0.0.0.0	172.17.12.254	172.17.12.51	45
127.0.0.0	255.0.0.0	On-link	127.0.0.1	331
192.168.0.0	255.255.255.0	On-link	172.17.12.51	301
172.17.12.0	255.255.255.255	On-link	172.17.12.51	301
172.17.12.1	255.255.255.255	On-link	172.17.12.51	301

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

Answer: C

NO.106 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:

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

NO.107 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

NO.108 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

NO.109 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

NO.110 A certificate chain can be used for which purpose?

- A. Creating anonymous connections on the internet
- B. anchoring the geographic location of a client or server
- C. Ensuring multiple layers of decryption and encryption
- D. Determining a client or server should be trusted

Answer: D

NO.111 Ethernet frame FCS errors occur when which calculation fails?

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

Answer: B

NO.112 which version of SNMP can AuthPriv be used?

- A. 2

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

Answer: B

NO.113 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

NO.114 A BIG-P Administrator needs to upload a qkview view to evaluate software upgrade options. Which service should be used?

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

Answer: B

NO.115 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: A,D

NO.116 Which protocol is used for control and session establishment for streaming media?

- A. RTP
- B. DTLS
- C. SMB
- D. RTSP

Answer: D

Explanation:

Reference: <https://stackoverflow.com/questions/4303439/what-is-the-difference-between-rtp-or-rtsp-in-streaming-server>

NO.117 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

NO.118 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

NO.119 Which IP subnet mask can be used to send traffic to all network nodes?

- A. 192.168.0.255/23
- B. 192.168.1.11/31
- C. 172.16.125/22
- D. 192.168.0.11/30

Answer: D

NO.120 Which protocol data unit (PDU) is associated with the OSI model Network layer?

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

Answer: B

Explanation:

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

NO.121 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>

NO.122 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-network-tcp-connection-termination/>

NO.123 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

NO.124 Which type of certificate is pre-installed in a web browser's trusted store?

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

Answer: A

NO.125 What does the HTTP status code 404 mean?

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

Answer: D

NO.126 ATP administrator recently added a new VLAN and needs to confirm that the BIG IP sees traffic on this VLAN. The VLAN is untagged on interface 1.1 and is named VLAN704 in the BIG IP Configuration Unity.

Which tool should be used to generate a packet capture that shows all traffic on this VLAN?

- A. netstat
- B. map
- C. tcpdump
- D. ifconfig

Answer: C

NO.127 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

NO.128 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

NO.129 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

NO.130 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 disable
- 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

NO.131 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

NO.132 HTTP pool attached to a Virtual Server has three members

Pool member A default HTTP monitor in red

Pool member 6 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

NO.133 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

NO.134 An administrator configures secure remote access to a server's shell Given the netstal output, what did the administrator configure?

- A. teinetd. allowing connections only from IP address 10 .1. 10.46
- B. sshd. listening on IP address 10. 1. 10.46
- C. sshd. allowing connections only from IP address 10.1. 10. 46
- D. teinetd 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.

NO.135 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

NO.136 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

<https://wiki.wireshark.org/TCP%20ZeroWindow>

Answer: A

NO.137 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

NO.138 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

NO.139 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

NO.140 What should the BIG-IP Administrator configure to perform SSL offloading when the certificate is already imported on the BIG-IP device?

- A. HTTP profile using client SSL profile
- B. Virtual server using client SSL profile configured to use the certificate
- C. Virtual server using server SSL profile configured to use the certificate
- D. HTTP profile using server SSL profile

Answer: B

NO.141 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>

NO.142 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. iControl

Answer: B

NO.143 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 > Itraffic-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

NO.144 The administrator wants client request to be directed to the same pool member through the session based on the client IP address.

Which persistence method should the administrator choose?

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

Answer: D

NO.145 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

NO.146 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

NO.147 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

NO.148 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

NO.149 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

NO.150 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

NO.151 What is used to resolve IP address to MAC address mappings?

- A. DHCP
- B. ARP
- C. DNS

D. ICMP**Answer:** B

Explanation:

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

NO.152 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

NO.153 For an IP of 192.168.10.10 with a subnet mask of 255.255.240.0 an administrator is asked to provide

* The first network address

* The broadcast address, and

* The number of hosts available per subnet host

What should be the administrator's response?

A. 192.168.0.1 is the network address. 192.168.10.255 is the broadcast address. There are 16382 addressable hosts

B. 192.168.0.0 is the network address 192.168.15.255 is the broadcast address. There are 4094 addressable hosts

C. 192.168.0.0 is the network address. 192.168.16.255 is the broadcast address. There are 1022 addressable hosts

D. 192.168.16.0 is the network address, 192.168.31.255 is the broadcast address. There are 4094 addressable hosts

Answer: B

NO.154 A BIG IP virtual Server with an IP address of 10.100.43.108 must be available to public internet users. Which technology should be used to achieve this task?

A. NDP**B. DNS****C. NAT****D. ARP**

10.x.x.x/8 is an RFC 1918 reserved private IP address. It must be NATted from a publicly accessible IP for access from the internet

Answer: C

NO.155 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

The network map shows a list Virtual, Pools and iRules with the status of each.

Answer: B

NO.156 Which service should be configured to allow BIG-IP devices to be externally monitored?

- A. SSHD
- B. TMSH
- C. SMTP
- D. SNMP

Answer: D

NO.157 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

NO.158 Which protocol data unit (PDU) is associated with the OSI model's Physical layer?

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

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

Answer: D

NO.159 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

NO.160 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

NO.161 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 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 require to handle HTTP requests when configured with HTTPS, so the monitor is failing.

NO.162 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

NO.163 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

NO.164 Which two functions of AAA does Security Assertion Markup Language (SAML) identity Provider (IdP) offer (Choose two)?

- A.** measure usage
- B.** provide authentication
- C.** provide availability
- D.** provide session auditing
- E.** filter access

Answer: B,D

NO.165 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

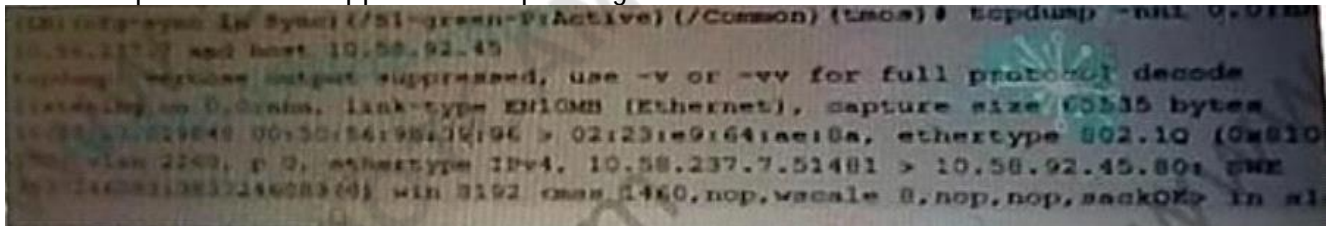
NO.166 A BIG IP administrator recently reset statistics for interfaces 1. 1 and 1. 2. The administrator notices that traffic appears on a data plane interface without receiving any client requests All nodes and pools have monitoring enabled, and all routes are locally defined on the device All management traffic is sent over the mgmt interface. What is the nature of this traffic?

- A. SNMP polling and traps
- B. Health checks for nodes and pool members
- C. Dynamic routing protocols
- D. TCP Keepalives for nodes and pool me

Health checks typically will be sent via the tmm interface based on the tmm routing configuration

Answer: B

NO.167 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

NO.168 What is a common use of an iRule?

- A. to modify application traffic between the client and server
- B. to create a reusable application delivery template
- C. to integrate a BIG IP into an enterprise orchestration tool
- D. to create an accelerated session between two BIG-IP devices

Answer: A

NO.169 Which protocol emphasizes reduced latency over reliability?

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

Answer: B

NO.170 What are two examples of failover capabilities of BIG-IP? (Choose two)

- A. failing over based on an over temperature alarm
- B. failing over serial cable based on electric failure code
- C. II failing over network connection based on heartbeat detection
- D. fading over network connection based on SNMP error
- E. failing over serial cable based on voltage detection

Answer: C,E

NO.171 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>

NO.172 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. 0902 19 VLAN tagging
- D. Port Spanning

Answer: C

NO.173 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

NO.174 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

NO.175 What are two examples of network layer protocols? (Choose two)

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

Answer: A,E

NO.176 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

NO.177 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)

NO.178 What is the correct procedure to comply with the recommendation?

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

Answer: D

NO.179 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. The standby unit in use the system's actual interfaces (s) MAC address

D. 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>

NO.180 An Administrator enables HTTP keep alive.

How does this affect the network?

- A.** HTTP connections will remain open longer
- B.** Fewer TCP connections will need to be opened
- C.** HTTP connections will close when the keep-alive times out
- D.** More TCP connections will need to be opened

Answer: B

Explanation:

<https://en.wikipedia.org/wiki/HTTPpersistentconnection>

NO.181 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 likely reason this occurred?

- A.** Clients were sending request to failed load balancer
- B.** connection mirroring configuration was NOT configured on the load balancer
- C.** The server was responding to the failed load balancer
- D.** SSL offloading was NOT configured on the load balancer

Answer: B

NO.182 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

NO.183 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

NO.184 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

NO.185 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

NO.186 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

NO.187 Cryptographic hash functions can be used to provide which service?

- A.** data modification
- B.** data encryption
- C.** data validation
- D.** data decryption

Answer: C

Explanation:

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

NO.188 An administrator is having a connectivity issue with a server in the same network. Upon checking with the command `arp -a` on a Windows machine, the two outputs are taken on a 1 minute interval "hat is likely causing this issue?

- A.** Interface down
- B.** MAC address conflict
- C.** No route available
- D.** IP address conflict

Answer: D

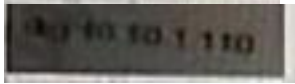
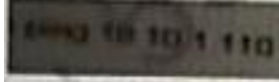
NO.189 What does ICMP Time Exceeded" mean?

- 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

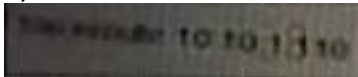
Answer: D

NO.190 Web application <http://www.example.com> at 10.10.1.10 is unresponsive. A recent change installed new firewalls in the network. Which command should be used to locate where data loss has occurred within the network?

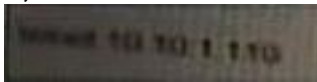
A)



C)



D)



A. Option A

B. Option B

C. Option C

D. Option D

Traceroute attempts to send ICMP-packets that expire further down the network and determine if a network device is responding or allowing traffic through.

Answer: C

NO.191 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

NO.192 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

NO.193 Which support service is required to synchrony the time stamps in system logs from these devices?

A. SNMP

B. Syslog

C. SMTP

D. DNS

Answer: B

NO.194 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

NO.195 Web application <http://www.example.com> at 10.10.1.1.110, is unresponsive. A recent change migrated DNS to a new platform

- A.** telnet www example com 80
- B.** curl http //www example com
- C.** dig www example com
- D.** telnet 10.10.1. 110. 80

Telnet will open a socket to the http server, but the request would need to be manually input Curl will send a request and output the response.

Answer: C

NO.196 An administrator wants to insert per-session data in a users browser so that user requests are directed to Which session persistence method should the administrator use?
the same session

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

Answer: D

Explanation:

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

NO.197 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

NO.198 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 o

watch device does the IP address 192.168.265.254 belong?

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

Answer: C

NO.199 Which technology can be used on a BIG-IP device to accelerate the delivery of the same content to multiple user?

- A. persistence
- B. SSL offloading
- C. Compression
- D. caching

Answer: D

NO.200 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

NO.201 A client needs to learn if a web server supports POST
Which HTTP method is used?

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

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

Answer: A

NO.202 BIG-IP Administrator runs the command `ITconfig` from the BIG-IP command the line end 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 Protocols blocking the con

Answer: D

NO.203 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

NO.204 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>

NO.205 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

NO.206 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 (LDP)

Answer: A

NO.207 A company deploys F5 load balancers to manage a large number of secure applications. The company manage certificates. Which F5 provides this functionality?

- A. iHealthy
- B. BIG-IQ
- C. GTM
- D. LTM

Answer: B

Explanation:

<https://devcentral.f5.com/articles/what-is-big-iq-26702>

NO.208 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

NO.209 Client A from the 192. 162. 168.0. 0 0/24 network wants to send a Ping to Client B on 10.10.10..0/24.

The Default Gateway from Client A IS 192.168.0. 1

The MAC Address of Client A is 00 11. 11. 11. 11

The MAC Address of client B is 00.22 22.22.22

The MAC Address of Default Gateway is 00. 33.33. 33. 33

What is the destination MAC Address of the ping packet when it leaves client A interface card?

- A. 00. 11. 11. 11. 11
- B. f1. f1. f1. f1. f1
- C. 00.33. 33. 33. 33
- D. 00. 22. 22. 22. 22

Answer: C

NO.210 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

NO.211 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

NO.212 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 vian VLAN40 (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 } 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 changes how the interface is referred to in the command.

Answer: B

NO.213 Pool A has three members.

Why is the pool up?

A. Heaton 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

NO.214 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

NO.215 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

NO.216 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

NO.217 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

NO.218 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

NO.219 A BIO IP Administrator is troubleshooting a slow web application. A packet capture shows that some of the packets coming from a window size of zero A packet capture shows that som a window size of zero What does this mean?

- A. The client is trying to close the TCP connection
- B. The server is trying to close the TCP connection
- C. The server is temporary unable to receive any more data
- D. The client is temporarily unable to receive any more data

Answer: C

NO.220 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

NO.221 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

NO.222 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

NO.223 What is a benefit of configuring BIG-IP devices in active-active high availability mode?

- A. avoid Overload on the BIG-P 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

NO.224 After all expected HTTP data has been sent from a server to a client, the client does not close connection. The server reaps the connection, but after that the client sends a "Keep alive" packet to the server.

Which type of packet will the server respond with?

- A. FIN
- B. RST
- C. ACK
- D. SYN

Answer: B

NO.225 Which security mode. functions by defining what traffic is allowed and rejecting all other traffic?

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

Answer: D

NO.226 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

NO.227 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/

NO.228 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

NO.229 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

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

Answer: B

NO.230 What does HTTP status code 500 mean?

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

Answer: B

NO.231 What should the administrator investigate first to address this traffic slowness?

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

Answer: C

NO.232 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. lnet
- B. traceroute
- C. ping
- D. tcpdump

Answer: D

NO.233 An administrator needs to provide access to corporate resources for remote users. The administrator also needs to verify that the remote use has anti-virus software installed. Which F5 product provides this functionality?

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

Answer: B

NO.234 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

NO.235 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

NO.236 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

NO.237 What command sends an "Echo Request" message and expects an "Echo Reply" message?

- A. ping
- B. netstal
- C. tcpdump
- D. echo

Answer: A

NO.238 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

NO.239 Which two OSI layers map to IP subnetting and TCP window sizing functions? (Choose two)

- A. Application
- B. Data Link
- C. Transport
- D. Network Session

Answer: D

NO.240 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