F5-Networks

Exam Questions 101

Application Delivery Fundamentals

NEW QUESTION 1
in which scenario is a full proxy TCP connection required?

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

Answer: D

NEW QUESTION 2
in which scenario is a full proxy required?

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

NEW QUESTION 3
An administrator sets up a web server for a new web application. The administrator cannot access the web server at is causing this issue?

A. The HTTP service only listens on localhost
B. The users IP needs to be allowed to access
C. The server needs to be restarted
D. The HTTPS service Is not running

Answer: A

NEW QUESTION 4
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

NEW QUESTION 5
The HTTP 1.1 standard is being used as part of communication to a server. The client fails to maintain the session within the maximum timeout defined by the server. Which device is responsible for ending the HTTP session?

A. the load balancer
B. the server
C. the default gateway of the load balancer
D. the client

Answer: C

NEW QUESTION 6
Host A sends 10 TCP packets to Host B. All packets arrive at Host B quickly, but some arrive out of order. What will Host B do?

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

Answer: D

NEW QUESTION 7
End users report widespread issues accessing multiple network resources
What tool should the BIG IP Administrator use to view the status of all virtual servers and associated resources in one place?

A. Pool statistics
B. Network Map
C. System performance
D. Virtual server statistics

Answer: B

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

NEW QUESTION 8
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

NEW QUESTION 9
Which command should a BIG-IP Administrator use to resolve the domain www. F5.com?

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

Answer: C

NEW QUESTION 10
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

NEW QUESTION 10
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 15
VLAN test-vlan" is configured on interface 1 1 instead of interface 1.2. Which TMSH command should be used to correct this issue?

A. modify /net test vlan interfaces {1.2}
B. modify /net test-vlan interfaces replace all with {1 2}
C. modify /net vlan test-vlan interfaces replace all with {12}
D. modify /net sian test-vlan interfaces {1 2}

Answer: C

NEW QUESTION 17
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 20
What is a primary reason to choose hardware over virtual devices?

A. failure isolation
B. HA capabilities
C. management capabilities
D. SSL performance

Answer: D

NEW QUESTION 24
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 until 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 uni
D. The standby unit in use the system's actual interfaces (s) MAC address
E. The MAC masquerade address will only be used by the un.t with higher unit ID The other unit wilt use the system's actual interface(s) MACaddress

Answer: C

Explanation:
https://support.f5.com/cp/article/K13502

NEW QUESTION 28
What we two advantages of using SSL offloading? (Choose two)

A. Offloads the client to SSL processing
B. provides single point of management for private keys
C. reduces server load significantly
D. encrypts all communications and to end
E. allows secure remote access to internal server resources

Answer: BC

NEW QUESTION 33
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: AE

NEW QUESTION 38
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

Answer: C

Explanation:
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

NEW QUESTION 40
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 > Iraffic-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 42
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 toad balancer that implements a full proxy architecture with SNAT enabled Behind the load balancer there are bro nodes Node 1 and node2
She administrator is debugging an issue on node 1 using icpdump and records the above out 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

NEW QUESTION 47
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 51
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 theserver is available?

A. from server-side interface in ADC.
B. from client side interface in ADC
C. from Workstation client
D. from switch connected to ADC and Server

Answer: A

NEW QUESTION 53
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 57
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

NEW QUESTION 61
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 63
Which protocol does an internet host use to request the hardware address of an IP address?

A. Reverse Address Resolution Protocol (RARP)
B. Address Resolution Protocol (ARP)
C. BOOTP
D. Dynamic Host Configuration Protocol (DHCP)

Answer: B

NEW QUESTION 64
An application uses a proprietary protocol running over TCP
Which FS BIG-IP feature should the administrator use to modify the protocol?

A. SPDY
B. rewrite profile
C. TCP profile
D. iRules

Answer: D

NEW QUESTION 68
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 73
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

NEW QUESTION 78
A user wishes to retries 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 83
What is a common use of an iRule?

A. to modify application traffic between the client and server
B. to create a reuseable 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

NEW QUESTION 88
A device needs to decrypt traffic and send unencrypted traffic to the web server. Which method should the BIG-IP Administrator use?

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

Answer: C

NEW QUESTION 91
An administrator is designing a remote host connection using an ICMP based network troubleshooting utility and receive an ICMP error diagram with the following error code.
* 11. Times exceeded What does this mean?

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

Answer: D

NEW QUESTION 96
Which three security controls are used in an SSL transaction? (Choose three.)

A. symmetric encryption

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

Answer: AD

NEW QUESTION 97

During a TCP three-way handshake, which packet indicates the serves maximum segment (MSS)?

A. the initial SYN packet
B. the ACK that completes the three way handshake
C. the SYN/ACK packet
D. the first packet after the three-way handshake

Answer: C

NEW QUESTION 98

ICMP is used by which command line tool?

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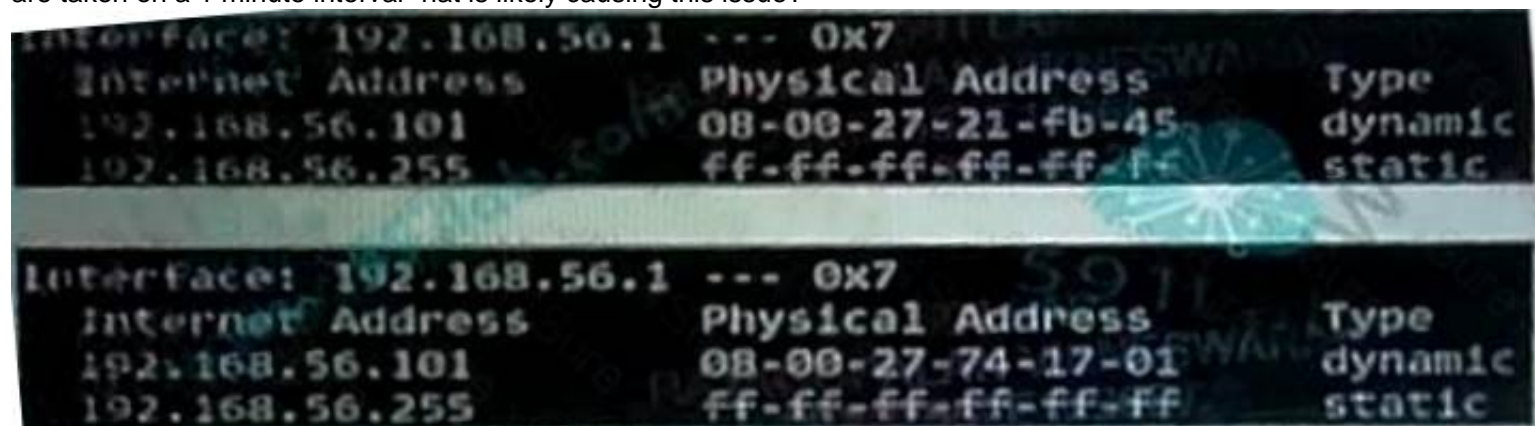C. traceroute
D. nslookup

Answer: C

NEW QUESTION 101

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 103

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

NEW QUESTION 104

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 109

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

NEW QUESTION 111
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

NEW QUESTION 114
Which Datalink sublayer has the primary funcl.cn of proving node lo node flow and error control?

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

Answer: A

Explanation:
hltps://en wikipedia org/wiki/Logical_link_control

NEW QUESTION 115
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

NEW QUESTION 119
A BIG-IP Administrator needs a solution to tunnel traffic and transmit encrypted connections over the Internet using only a standard browser and common ports and protocols. Which solution should the administrator select?

A. GRE Tunnel
B. iPsec VPN
C. SSH Tunnel
D. SSL VPN

Answer: D

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

NEW QUESTION 122
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 127
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 129
AD VLAN must be created with an 802.19 tag of 705 on interface 11. What is the proper TSH command to create this new VLAN on the BIG-IP?

A. Create/net wan internal interfaces add {1 1 (tagged)} tag 706
B. Create/net vlan internal trunk add (11 {tagged)}
C. add /net vlan internal interfaces add (11) tag 705
D. add / net vlan internal tunk add {1 1 (tagged)) tag 705

Answer: A

NEW QUESTION 130
An administrator needs to lower .he amount of new TCP connections to help with network congest? How should the administrator accomplish this?

A. Use HTTP keep-alive
B. set a larger receive window
C. Enable delayed ACKs
D. use an indefinite timeout

Answer: A

NEW QUESTION 133
The BIG-IP device has the following configured routes:

Destination	Gateway
10 238 0 0/16	192 168 10 10
10 238 10 0/24	192 168 10 20
10 238 10 10/32	192 168 10 30
default	192 168 10 40

Which gateway will be chosen to send the packet to the destination 10 238 10 11?

A. 192. 168 10 20
B. 192. 168.10. 40
C. 192 168. 10. 30
D. 192. 168. 10. 10

Answer: A

NEW QUESTION 137
What is used to resolve IP address to MAC address mappings?
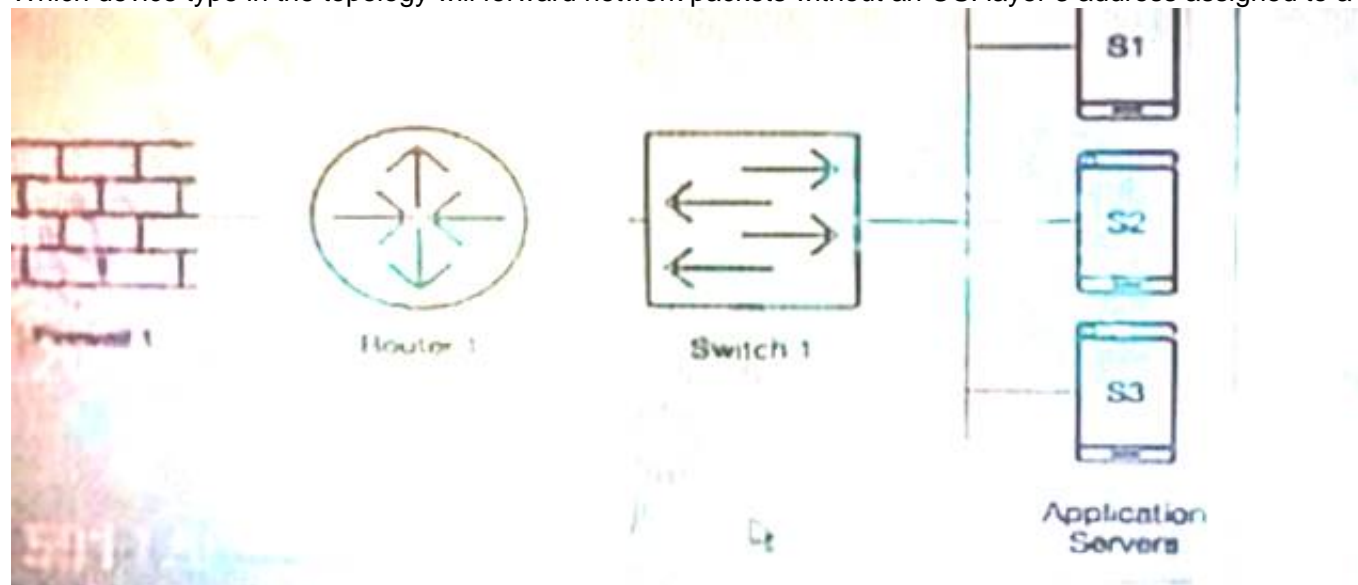
A. DHCP
B. ARP
C. DNS
D. ICMP

Answer: B

Explanation:
https://enWikipedia.org/wiki/Address_Resolution_Protocol

NEW QUESTION 141
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 144
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

NEW QUESTION 146
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

NEW QUESTION 150
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 152
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 156
A company needs to use a custom value when making persistence decisions.Which F5 product provides this functionality?

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

Answer: B

NEW QUESTION 157
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

NEW QUESTION 161
Which TransportLayer Security (TLS) extension can be used to enable a single virtual server to serve multiple HTTPS websites in different can be used to enable a single virtual server to server domains?

A. Session Tickets
B. OCSP Staping
C. Server Name indication
D. Certificate Status Request

Answer: C

NEW QUESTION 162
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:
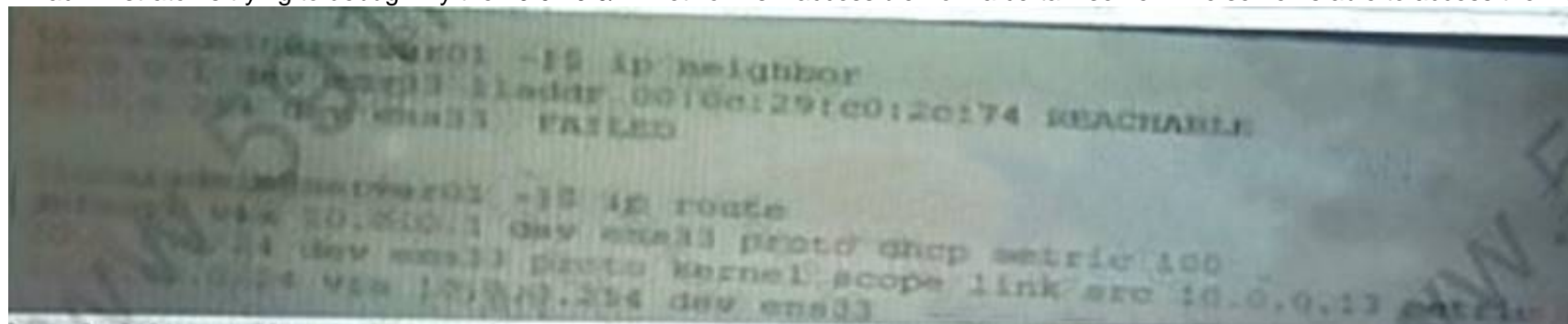https ://en.wikipedia.org/wiki/Hash_function

NEW QUESTION 167
A BIG IP Administrator wants to add a new VLAN (VLAN 40) to an LACP trunk (named LACP01) connected to the BIG-IP device Mufti VLANS exist on LACPO1.Which TMSH command should the BIGIP Administrator issue to add the new VLAN to the existing LACP trunk?

A. create net vlan VLAN40 (interfaces add (LACP01 {lagged)) 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

NEW QUESTION 170
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 171
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 176
A VoIP application requires that data payloads will NOT be fragmented. Which protocol controls network behavior in this situation?

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

Answer: A

NEW QUESTION 180
A server is capable of handling more connections than other servers in the same pool. Which load distribution method should the administrator choose?

A. Least Connections
B. Fastest
C. Ratio
D. Round Robin

Answer: C

NEW QUESTION 184
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 185
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
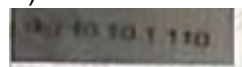C. 2001 :: 127 : : 1
D. : : 1

Answer: D

NEW QUESTION 186
Web application http://www example.com at 10.10.1.1.10 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?
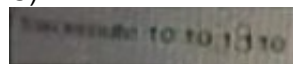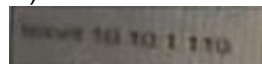A)

B)

C)

D)

A. Option A
B. Option B
C. Option C
D. Option D

Answer: C

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

NEW QUESTION 191
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