

# **F5-Networks**

## **Exam Questions 101**

Application Delivery Fundamentals



#### NEW QUESTION 1

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

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

**Answer:** D

#### NEW QUESTION 2

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 3

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

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

**Answer:** B

#### Explanation:

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

#### NEW QUESTION 4

Where is the MAC masquerade address configured?

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

**Answer:** D

#### NEW QUESTION 5

Client traffic for a web application is managed by load balancers in a high availability configuration. After a failover event all clients are forced to login again to the application.

What is the most likely reason this occurred?

- A. Clients were sending request to failed load balancer
- B. correction 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

#### NEW QUESTION 6

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

#### NEW QUESTION 7

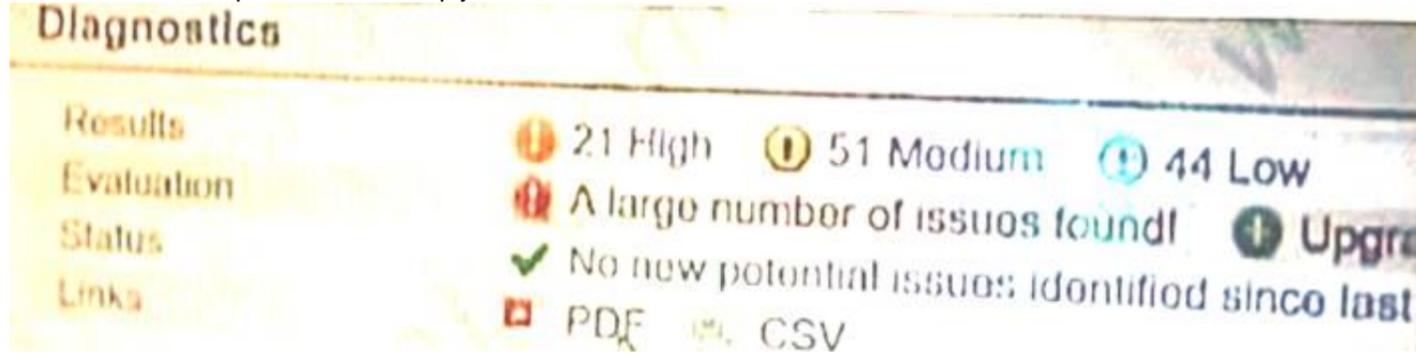
A BIG-IP Administrator is trying to send traffic to a server on the same subnet and sees an incomplete in the BIG-IP devices ARP table. What could cause the incomplete status?

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

Answer: D

**NEW QUESTION 8**

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 6.com
- C. Download the product version image from dovcentral f5.com
- D. Download the product version image from downloads f5.com

Answer: D

**NEW QUESTION 9**

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**

Which protocol is used for control and session establishment for streaming media?

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

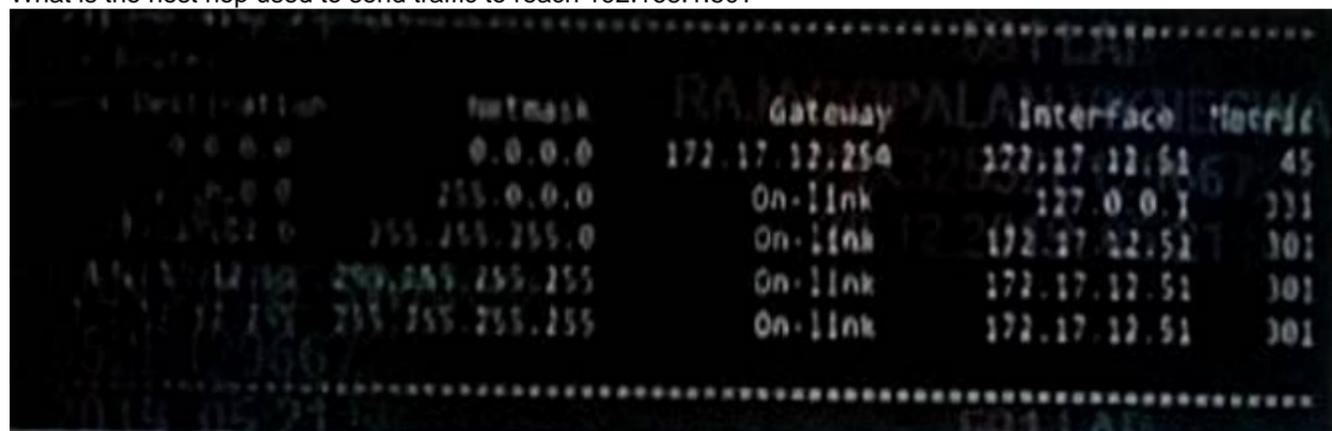
Answer: D

**Explanation:**

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

**NEW QUESTION 10**

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



- A. 172.17.12.51
- B. 192.168.150
- C. 172.17.12.254
- D. 172.17.12/255

Answer: C

**NEW QUESTION 13**

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

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

D. Hub

**Answer:** B

**NEW QUESTION 17**

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](http://support.f5.com/kb/en-us/products/big_ip_ltm/manuals/product/lrm-concepts-1-1-2-1/lrm_persist_files.html)

**NEW QUESTION 22**

In which scenario is a full proxy TCP connection required?

- A. TCP routing
- B. IPv4 to IPv6 gateway
- C. UDP routing
- D. UDP to ICMP gateway

**Answer:** B

**NEW QUESTION 27**

A BIG-IP Administrator needs to upgrade an HA pair to a more recent TMOS version. The administrator is unsure if the BIG-IP is currently supported How should the administrator verify that the HA pair is under a valid support contract?

- A. confirm that License OK" is set to yes in the applied license
- B. confirm that the "Service Check Date" specified in the applied license has not passed
- C. Check the status of the license under the Platform menu of the F5 Configuration Unity
- D. review /var/log/license for messages that indicate an expired license

**Answer:** C

**NEW QUESTION 31**

Ethernet frame FCS errors occur when which calculation fails?

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

**Answer:** B

**NEW QUESTION 36**

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 Administrator needs to configure a MAC masquerade address for traffic-group 1. Where on the GUI should this configuration be performed?

- A. System > Configuration Device General > ltraffic-group-1
- B. Local Traffic > Traffic Class > traffic -group-1
- C. Device Management > Traffic Groups > traffic-group-1
- D. Network > ARP Static List > traffic-group-1

**Answer:** C

**NEW QUESTION 39**

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

- A. Ensuring requests from a single source always end up being handled by the same server.
- B. the ability to associate different HTTP requests to a single user so that activity can be tracked.

- C. Keeping TLS session key information in memory so sessions can be quickly resumed
- D. the ability to keep idle connections open as long as possible by sending dummy traffic periodically

**Answer:** A

#### NEW QUESTION 44

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

#### NEW QUESTION 45

A messaging system digitally signs messages to ensure non-repudiation of the sender. Which component should the receiver use to validate the message?

- A. Public Key
- B. SSL extension
- C. A negotiated security algorithm
- D. private Key

**Answer:** A

#### NEW QUESTION 47

In which scenario does the client act as a server?

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

**Answer:** A

#### NEW QUESTION 49

A BIG-IP Administrator configures three Network Time Protocol servers to keep the time of the devices in sync. Which tool should the administrator use to show the synchronization status with the Network Time Protocol servers ?

- A. ntpdate
- B. time
- C. mpa
- D. date

**Answer:** C

#### NEW QUESTION 54

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 59

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

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

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

**Answer:** B

#### Explanation:

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

**NEW QUESTION 62**

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 63**

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

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

**Answer: C**

**NEW QUESTION 67**

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](https://en.wikipedia.org/wiki/Protocol_data_unit)

**NEW QUESTION 68**

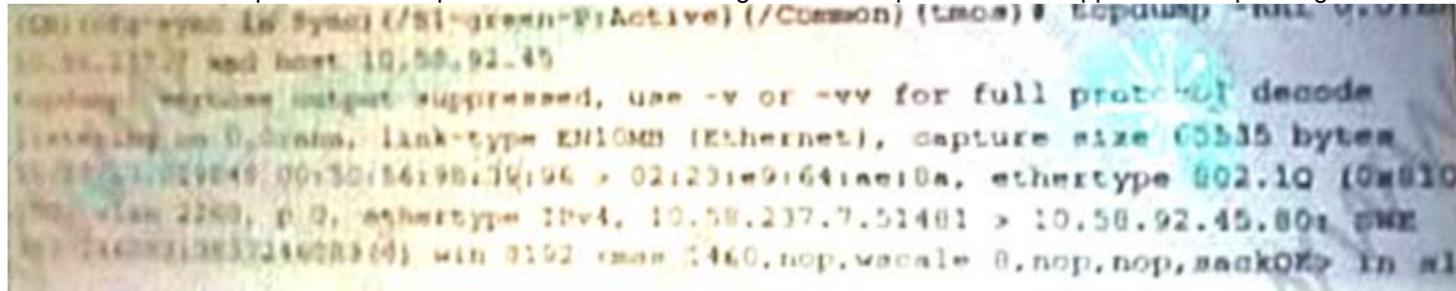
A client's operating system needs to make sure that data received from a server is mapped to the application that requested it. How does it complete this mapping?

- A. using the TCP sequence number
- B. using the client source port
- C. using the TCP acknowledgement number
- D. using the server source port

**Answer: B**

**NEW QUESTION 70**

BIG-IP Administrator performs the capture as shown in the image! On which protocol is the application responding?



- A. RDP
- B. HTTPS
- C. DNS
- D. HTTP

**Answer: D**

**NEW QUESTION 74**

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. Micast

**Answer: C**

**NEW QUESTION 79**

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

#### **NEW QUESTION 83**

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>

#### **NEW QUESTION 85**

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 89**

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 91**

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

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

**Answer:** B

#### **NEW QUESTION 92**

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

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

**Answer:** CD

#### **NEW QUESTION 96**

An administrator points the browser at <http://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>

**NEW QUESTION 97**

Which HTTP response code indicates an OK status?

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

**Answer: C**

**NEW QUESTION 102**

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

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

**Answer: C**

**NEW QUESTION 103**

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

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

**Answer: A**

**NEW QUESTION 106**

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

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

**Answer: B**

**NEW QUESTION 108**

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

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

**Answer: C**

**NEW QUESTION 113**

A BIG-IP Administrator has a cluster of devices. What should the administrator do after creating a new Virtual Server on device 1?

- A. synchronize the settings of device 1 to the group
- B. create a new cluster on device 1
- C. create the new virtual server on device 2
- D. synchronize the settings of the group to device 1

**Answer: A**

**NEW QUESTION 117**

In an administrator's environment, the administrator wants to inspect a high volume of SSL traffic. What should be used for this task?

- A. Big-IP Global Traffic Manager appliance
- B. Big-IP standard virtual edition
- C. Big-IP Local Traffic Manager appliance
- D. Big-IP virtual edition with FIPS

**Answer: C**

**NEW QUESTION 118**

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

**NEW QUESTION 123**

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

**NEW QUESTION 128**

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

**NEW QUESTION 133**

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 137**

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

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

**Answer:** D

**Explanation:**

[https://en.wikipedia.org/wiki/Protocol\\_data\\_unit](https://en.wikipedia.org/wiki/Protocol_data_unit)

**NEW QUESTION 139**

A client is transmitting a large amount of data to a server During this process, the server sets the window size to zero What is the likely cause of this issue?

- A. The server is unable to accept more data
- B. The server resets the connection
- C. The client runs out of network buffers
- D. The server reaches its maximum segment size

**Answer:** A

**Explanation:**

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

**NEW QUESTION 143**

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

**Answer:** C

**Explanation:**

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.

**NEW QUESTION 147**

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

**NEW QUESTION 151**

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 155**

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

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

**Answer:** B

**NEW QUESTION 158**

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 161**

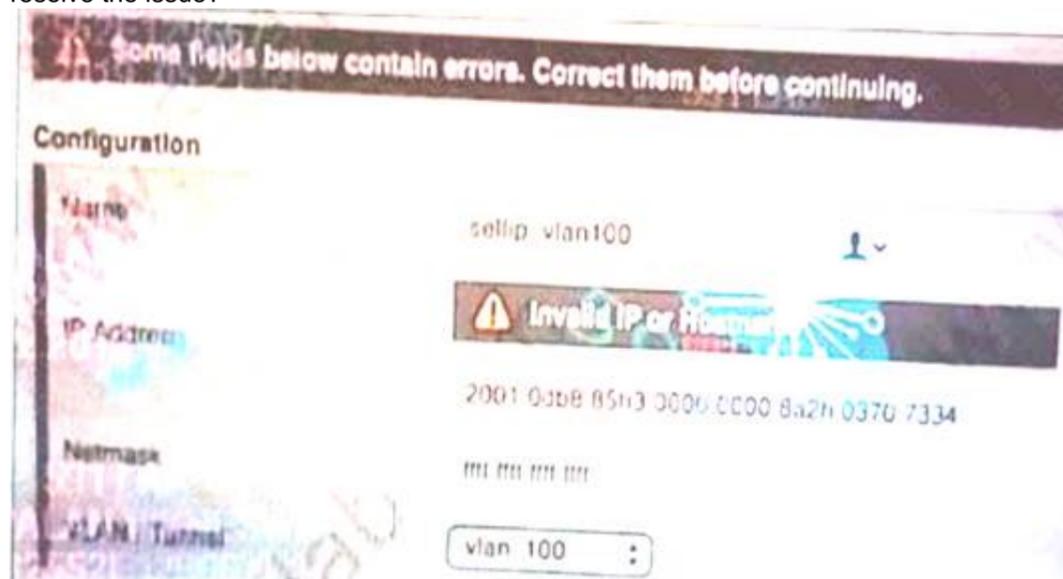
A company needs to use a custom value when making persistence decisions.Which F5 product provides this functionality?

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

**Answer:** B

**NEW QUESTION 162**

An administrate 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. 2001:0db8:85i3:0000:0000: : 8a2i:0370:7334

**Answer:** A

**NEW QUESTION 165**

What command sends an "Echo Request" message and expects an "Echo Reply" message?

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

**Answer:** A

**NEW QUESTION 170**

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 171**

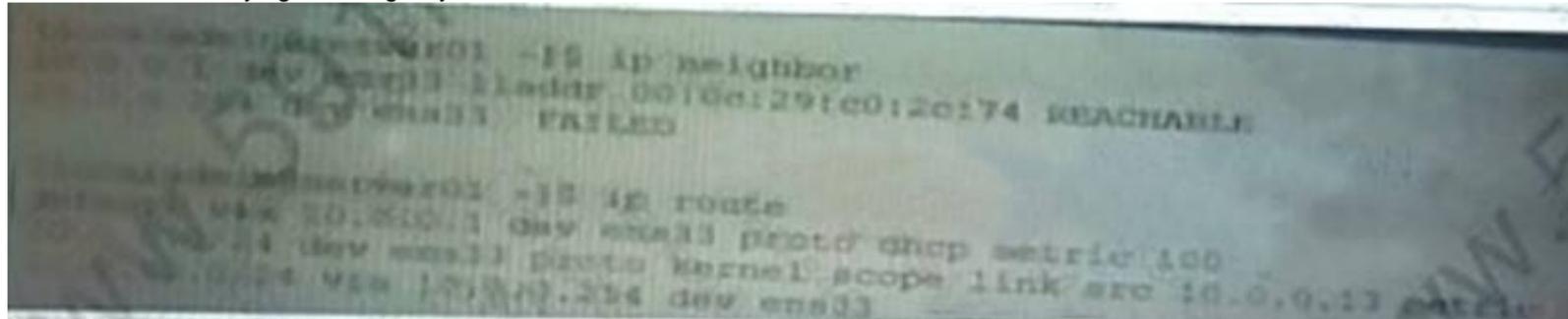
A BIG IP Administrator need to perform a packet capture and identify the source IP that is connecting to the Virtual Server. Which utility should the administrator use on the BIG IP device?

- A. leinel
- B. traceroute
- C. ping
- D. tcpdump

**Answer:** D

**NEW QUESTION 175**

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 176**

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 quailed domain name for this application?

- A. add a DNS record for the fully qualified domain name
- B. add the fully qualified domain name to the browser cache
- C. make an entry in the client host file
- D. make an entry in the web server services file

**Answer:** C

**NEW QUESTION 180**

Comment calculator DNS error SERVFAIL. HTTP 404 and SMTP error 550 are all examples of which type of error?

- A. Service
- B. Application
- C. Network

D. Session

**Answer:** B

**NEW QUESTION 185**

Which protocol Authenticates network traffic between hosts end without encryption?

- A. PPTP
- B. GRE
- C. IPSec AH
- D. IPSec ESP

**Answer:** C

**Explanation:**

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

**NEW QUESTION 186**

An administrator needs to rapidly deter e newly discovered security threat to a remote desktop application. Which F5 feature provides this functionality?

- A. iRules
- B. SSL profiles
- C. Proxy SSL
- D. SPDY

**Answer:** A

**NEW QUESTION 188**

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 189**

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

**NEW QUESTION 190**

In which scenario is a packet forwarding architecture required?

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

**Answer:** C

**NEW QUESTION 195**

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](https://www.dosarrpst.com/ddos-blog/the-difference-between-positive-s-negatto-wafi)

**NEW QUESTION 199**

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 201**

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