



F5 Networks 301b Practice Questions

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Question 1

Question Type: MultipleChoice

-- Exhibit --

PACKET CAPTURE DIRECT TO WEB SERVER

```
19:50:28.497103 IP 172.31.5.100.49715 > 10.31.80.23.80: S 751670031:751670031(0) win 8192 <mss 1460,nop,wscale 2,nop,nop,sackOK>
19:50:28.501117 IP 10.31.80.23.80 > 172.31.5.100.49715: S 1684731463:1684731463(0) ack 751670032 win 8192 <mss 1460,nop,wscale 8,nop,nop,sackOK>
19:50:28.502839 IP 172.31.5.100.49715 > 10.31.80.23.80: . ack 1 win 16425
19:50:28.524386 IP 172.31.5.100.49715 > 10.31.80.23.80: P 1:249(248) ack 1 win 16425
19:50:28.527024 IP 10.31.80.23.80 > 172.31.5.100.49715: P 1:344(343) ack 249 win 256
19:50:28.738115 IP 172.31.5.100.49715 > 10.31.80.23.80: . ack 344 win 16339
19:50:30.855229 IP 172.31.5.100.49716 > 10.31.80.23.80: S 3248492897:3248492897(0) win 8192 <mss 1460,nop,wscale 2,nop,nop,sackOK>
19:50:30.858672 IP 10.31.80.23.80 > 172.31.5.100.49716: S 1034885901:1034885901(0) ack 3248492898 win 8192 <mss 1460,nop,wscale 8,nop,nop,sackOK>
19:50:30.861972 IP 172.31.5.100.49716 > 10.31.80.23.80: . ack 1 win 16425
19:50:30.861980 IP 172.31.5.100.49716 > 10.31.80.23.80: P 1:202(201) ack 1 win 16425
19:50:30.865070 IP 10.31.80.23.80 > 172.31.5.100.49716: P 1:1406(1405) ack 202 win 256
19:50:30.867112 IP 172.31.5.100.49716 > 10.31.80.23.80: R 202:202(0) ack 1406 win 0
```

PACKET CAPTURE THROUGH LTM DEVICE

EXTERNAL VLAN

```
20:05:33.719423 IP 172.31.5.100.49734 > 172.31.200.200.80: S 3265616310:3265616310(0) win 8192 <mss 1460,nop,wscale 2,nop,nop,sackOK>
20:05:33.958133 IP 172.31.5.100.49735 > 172.31.200.200.80: S 2304966925:2304966925(0) win 8192 <mss 1460,nop,wscale 2,nop,nop,sackOK>
20:05:36.722498 IP 172.31.5.100.49734 > 172.31.200.200.80: S 3265616310:3265616310(0) win 8192 <mss 1460,nop,wscale 2,nop,nop,sackOK>
20:05:36.972779 IP 172.31.5.100.49735 > 172.31.200.200.80: S 2304966925:2304966925(0) win 8192 <mss 1460,nop,wscale 2,nop,nop,sackOK>
20:05:42.723128 IP 172.31.5.100.49734 > 172.31.200.200.80: S 3265616310:3265616310(0) win 8192 <mss 1460,nop,nop,sackOK>
20:05:42.972755 IP 172.31.5.100.49735 > 172.31.200.200.80: S 2304966925:2304966925(0) win 8192 <mss 1460,nop,nop,sackOK>
```

INTERNAL VLAN

```
20:05:33.719791 IP 172.31.5.100.49734 > 172.31.200.200.80: S 3265616310:3265616310(0) win 8192 <mss 1460,nop,wscale 2,nop,nop,sackOK>
20:05:33.958189 IP 172.31.5.100.49735 > 172.31.200.200.80: S 2304966925:2304966925(0) win 8192 <mss 1460,nop,wscale 2,nop,nop,sackOK>
20:05:36.722525 IP 172.31.5.100.49734 > 172.31.200.200.80: S 3265616310:3265616310(0) win 8192 <mss 1460,nop,wscale 2,nop,nop,sackOK>
20:05:36.972805 IP 172.31.5.100.49735 > 172.31.200.200.80: S 2304966925:2304966925(0) win 8192 <mss 1460,nop,wscale 2,nop,nop,sackOK>
20:05:42.723147 IP 172.31.5.100.49734 > 172.31.200.200.80: S 3265616310:3265616310(0) win 8192 <mss 1460,nop,nop,sackOK>
20:05:42.972776 IP 172.31.5.100.49735 > 172.31.200.200.80: S 2304966925:2304966925(0) win 8192 <mss 1460,nop,nop,sackOK>
```

-- Exhibit --

Refer to the exhibits.

Users are able to access the application when connecting directly to the web server but are unsuccessful when connecting to the virtual server.

What is the cause of the application access problem?

Options:

- A- The virtual server has SNAT disabled.
- B- The client has no route to the web server.
- C- The virtual server has address translation disabled.
- D- The web server is NOT responding on the correct port.
- E- The virtual server is NOT configured to listen on port 80.

Answer:

C

Question 2

Question Type: MultipleChoice

-- Exhibit --

General Configuration		Custom ☐										
Profile Name	avr_example											
Partition / Path	Common											
Parent Profile	analytics											
Profile Description												
Statistics Logging Type	☒ Internal ☐ External											
Traffic Capturing Logging Type	☐ Internal ☐ External											
SMTP Configuration	None (Note: Setting can be changed only through the default analytics profile.)											
Notification Type	☒ Syslog ☐ SNMP ☐ E-mail											
Trust XFF	☒ Enable											
Transaction Sampling Ratio	Sample all transactions (Note: Setting can be changed only through the default analytics profile.)											
Included Objects												
Virtual Servers	<table border="1"> <thead> <tr> <th>☐</th> <th>Name</th> <th>Destination</th> <th>Service Port</th> <th>Partition / Path</th> </tr> </thead> <tbody> <tr> <td colspan="5">No records to display.</td> </tr> </tbody> </table>		☐	Name	Destination	Service Port	Partition / Path	No records to display.				
☐	Name	Destination	Service Port	Partition / Path								
No records to display.												
Add... Delete												
Statistics Gathering Configuration		Custom ☐										
Collected Metrics	☒ Server Latency ☐ Page Load Time ☒ Throughput ☐ User Sessions											
Collected Entities	☐ URLs ☐ Countries ☐ Client IP Addresses ☒ Response Codes ☐ User Agents ☒ Methods											
Alerts and Notifications Configuration												
Add New Rule	Alert when Average TPS is below Trans/sec, for seconds in an Application Add											
Active Rules	<table border="1"> <thead> <tr> <th>☐</th> <th>Rule</th> <th>Edit</th> </tr> </thead> <tbody> <tr> <td>☐</td> <td>Alert when Average Server Latency is below 50 ms for 300 seconds in an Application.</td> <td> Edit </td> </tr> </tbody> </table>		☐	Rule	Edit	☐	Alert when Average Server Latency is below 50 ms for 300 seconds in an Application.	Edit				
☐	Rule	Edit										
☐	Alert when Average Server Latency is below 50 ms for 300 seconds in an Application.	Edit										
Delete												
Cancel Finished Note: Changes you make might take up to 10 minutes to be reflected in the charts.												

-- Exhibit --

Refer to the exhibit.

An LTM Specialist sets up AVR alerts and notifications for a specific virtual server if the server latency exceeds 50ms. The LTM Specialist simulates a fault so that the server latency is consistently exceeding the 50ms threshold; however, no alerts are being received.

Which configuration should the LTM Specialist modify to achieve the expected results?

Options:

- A- The rule should be adjusted to trigger when server latency is above 50ms.
- B- SNMP alerting should be enabled to allow e-mail to be sent to the support team.
- C- User Agents needs to be enabled to ensure the correct information is collected to trigger the alert.
- D- The metric 'Page Load Time' needs to be enabled to ensure that the correct information is collected.

Answer:

A

Question 3

Question Type: MultipleChoice

Users are experiencing low throughput when downloading large files over a high-speed WAN connection. Extensive packet loss was found to be an issue but CANNOT be eliminated.

Which two TCP profile settings should be modified to compensate for the packet loss in the network? (Choose two.)

Options:

- A- slow start
- B- proxy options
- C- proxy buffer low
- D- proxy buffer high
- E- Nagle's algorithm

Answer:

C, D

Question 4

Question Type: MultipleChoice

-- Exhibit --

```
ltm pool /Common/pool_lamp_http {
    load-balancing-mode least-connections-member
    members {
        /Common/Server_lamp_1:80 {
            address 172.16.20.1
        }
        /Common/Server_lamp_2:80 {
            address 172.16.20.2
        }
        /Common/Server_lamp_3:80 {
            address 172.16.20.3
        }
    }
    monitor /Common/http
}
ltm virtual /Common/vs_http_lamp {
    destination /Common/10.0.20.88:80
    ip-protocol tcp
    mask 255.255.255.255
    pool /Common/pool_lamp_http
    profiles {
        /Common/http { }
        /Common/tcp { }
    }
    translate-address enabled
    translate-port enabled
    vlans-disabled
}
```

-- Exhibit --

Refer to the exhibit.

Users report that a web application works incorrectly. Sometimes contextual data displayed on the web pages is accurate; other times it is inaccurate.

The LTM administrator looks at the connection table with a filter on one of the client IP addresses currently connected using the command "tmsh show sys connection cs-client-addr 10.0.20.1"

with the following results:

10.0.20.1:60048 10.0.20.88:80 10.0.20.1:60048 172.16.20.1:80 tcp 3 (tmm: 0)

10.0.20.1:60050 10.0.20.88:80 10.0.20.1:60050 172.16.20.3:80 tcp 3 (tmm: 0)

10.0.20.1:60047 10.0.20.88:80 10.0.20.1:60047 172.16.20.2:80 tcp 3 (tmm: 0)

10.0.20.1:60049 10.0.20.88:80 10.0.20.1:60049 172.16.20.1:80 tcp 3 (tmm: 0)

What is the solution to the problem?

Options:

- A- Synchronize the clock of the LTM device with NTP.
- B- Modify the load balancing method attached to the pool.
- C- Set up an HTTP cookie insert profile in the virtual server.
- D- Modify the setup of the monitor bound to the pool used by the application.

Answer:

C

Question 5

Question Type: MultipleChoice

An LTM Specialist is creating a custom EAV monitor.

In which directory should the LTM Specialist upload the script?

Options:

- A- /usr/monitor
- B- /usr/monitors
- C- /config/monitors
- D- /usr/bin/monitors
- E- /config/templates

Answer:

C

Question 6

Question Type: MultipleChoice

Given:

Filesystem Size Used Avail Use% Mounted on

/dev/md11 248M 248M 0 100% /

/dev/md13 3.0G 76M 2.8G 3% /config

/dev/md12 1.7G 1.1G 476M 71% /usr

/dev/md14 3.0G 214M 2.6G 8% /var

```
/dev/md0 30G 2.2G 26G 8% /shared  
/dev/md1 6.9G 288M 6.3G 5% /var/log  
none 3.9G 452K 3.9G 1% /dev/shm  
none 3.9G 19M 3.9G 1% /var/tmstat  
none 3.9G 1.2M 3.9G 1% /var/run  
prompt 4.0M 12K 4.0M 1% /var/prompt  
/dev/md15 12G 8.3G 3.1G 74% /var/lib/mysql
```

Which command is used to produce this output?

Options:

- A- df
- B- du
- C- lsof
- D- ps
- E- vmstat

Answer:

A

Question 7

Question Type: MultipleChoice

-- Exhibit --

Client side of LTM Device:

```
GET / HTTP/1.1
User-Agent: curl/7.21.0 (i486-pc-linux-gnu) libcurl/7.21.0 OpenSSL/0.9.8o zlib/1.2.3.4 libidn/1.15 libssh2/1.2.6
Host: 172.16.80.80
Accept: */*

HTTP/1.1 200 OK
Date: Thu, 25 Oct 2012 16:17:21 GMT
Server: Apache/2.2.16 (Debian)
Last-Modified: Tue, 23 Oct 2012 16:14:06 GMT
ETag: "17f655-1d-4ccbc425aaf80"
Accept-Ranges: bytes
Content-Length: 29
Vary: Accept-Encoding
Content-Type: text/html
X-Pad: avoid browser bug
Set-Cookie: BIGipServermy_http_pool=1679034890.20480.0000; path=/
```

Server side of LTM device:

```
GET / HTTP/1.1
User-Agent: curl/7.21.0 (i486-pc-linux-gnu) libcurl/7.21.0 OpenSSL/0.9.8o zlib/1.2.3.4 libidn/1.15 libssh2/1.2.6
Host: 172.16.80.80
Accept: */*

HTTP/1.1 200 OK
Date: Thu, 25 Oct 2012 16:17:21 GMT
Server: Apache/2.2.16 (Debian)
Last-Modified: Tue, 23 Oct 2012 16:14:06 GMT
ETag: "17f655-1d-4ccbc425aaf80"
Accept-Ranges: bytes
Content-Length: 29
Vary: Accept-Encoding
Content-Type: text/html
X-Pad: avoid browser bug
```

-- Exhibit --

Refer to the exhibit.

A web application is configured to allow sessions to continue even after a user computer is shut down for the night. A new LTM device is configured to load balance the web application to several servers. The application owner reports that application users are logged out of the web application whenever their browser is restarted or computer is rebooted.

What is the problem?

Options:

- A- The virtual server does NOT have persistence configured.
- B- The virtual server does NOT have persistence mirroring configured.
- C- The cookie set by the LTM device does NOT have an 'Expires' value.
- D- The cookie set by the server is NOT being passed to client by the LTM device.

Answer:

C

Question 8

Question Type: MultipleChoice

-- Exhibit --

```

Direct to application server:
Request:
GET / HTTP/1.1
Host: 172.16.20.21
Connection: keep-alive
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_7_5) AppleWebKit/537.4 (KHTML, like Gecko)
Chrome/22.0.1229.94 Safari/537.4
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate, sdch
Accept-Language: en-US,en;q=0.8
Accept-Charset: ISO-8859-1,utf-8;q=0.7,*;q=0.3

Response:
HTTP/1.1 200 OK
Date: Wed, 24 Oct 2012 19:11:46 GMT
Server: Apache/2.2.22 (Ubuntu)
Last-Modified: Fri, 08 Jun 2012 13:32:31 GMT
ETag: "a0b21-b1-4c1f608458836"
Accept-Ranges: bytes
Content-Length: 177
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Content-Type: text/html

Through LTM:
Request:
GET / HTTP/1.1
Host: www.example.com
Connection: keep-alive
Cache-Control: max-age=0
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_7_5) AppleWebKit/537.4 (KHTML, like Gecko)
Chrome/22.0.1229.94 Safari/537.4
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Encoding: gzip,deflate, sdch
Accept-Language: en-US,en;q=0.8
Accept-Charset: ISO-8859-1,utf-8;q=0.7,*;q=0.3

Response:
HTTP/1.1 301 Moved Permanently
Date: Wed, 24 Oct 2012 19:17:47 GMT
Server: Apache/2.2.22 (Ubuntu)
Location: https://www.example.com/
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Content-Type: text/html; charset=iso-8859-1
Transfer-Encoding: chunked

```

-- Exhibit --

Refer to the exhibit.

An LTM Specialist configures a virtual server to perform client-side encryption while allowing the server-side traffic to be unencrypted. Application owners report that images are failing to load through the virtual server; however, images load when going directly to the server.

What is the problem with the images loading through the virtual server?

Options:

- A- Image references are for HTTP objects, not HTTPS.
- B- Image references are for HTTPS objects, not HTTP.
- C- The virtual server does not have 'SSL Offloading' enabled.
- D- The virtual server does not have an HTTP profile associated.

Answer:

A

Question 9

Question Type: MultipleChoice

An LTM Specialist configures two LTM devices in a high-availability pair with trusts established and device groups configured properly using network failover. After several months, the LTM Specialist notices that changes made to one LTM device do NOT cause the synchronization status to update to "changes pending," and this device does NOT synchronize with the device group.

Which two steps should the LTM Specialist take to identify the issue? (Choose two.)

Options:

- A- Verify that NTP is synchronized.
- B- Verify the network connectivity between the devices.
- C- Verify that the devices are not using self-signed certificates.
- D- Verify that ConfigSync is using the management IP address.
- E- Verify that port lockdown on the ConfigSync interface is set to allow port 1026.

Answer:

A, B

Question 10

Question Type: MultipleChoice

-- Exhibit --

```

ltm rule /Common/vs1-https-redirect {
when HTTP_REQUEST {
if { not ([HTTP::host] eq "vs1") && not ([HTTP::uri] starts_with "/app") } {
HTTP::redirect "https://vs1/app/"
return
}
}
}
ltm rule /Common/vs2-https-redirect {
when HTTP_REQUEST {
if { not ([HTTP::host] eq "vs2") && not ([HTTP::uri] starts_with "/app4") } {
HTTP::redirect "https://vs2/app4/"
return
}
}
}
ltm rule /Common/vs3-https-redirect {
when HTTP_REQUEST {
if { not ([HTTP::host] eq "vs3") && not ([HTTP::uri] starts_with "/app2") } {
HTTP::redirect "https://vs3/app2/"
return
}
}
}
ltm rule /Common/vs4-https-redirect {
when HTTP_REQUEST {
if { not ([HTTP::host] eq "vs4") && not ([HTTP::uri] starts_with "/app") } {
HTTP::redirect "https://vs4/app/"
return
}
}
}
ltm rule /Common/vs5-https-redirect {
when HTTP_REQUEST {
if { not ([HTTP::host] eq "vs5") && not ([HTTP::uri] starts_with "/app3") } {
HTTP::redirect "https://vs5/app3/"
return
}
}
}
}

```

-- Exhibit --

Refer to the exhibit.

Which two items can be consolidated to simplify the LTM configuration? (Choose two.)

Options:

- A- /Common/vs1-https-redirect
- B- /Common/vs2-https-redirect
- C- /Common/vs3-https-redirect
- D- /Common/vs4-https-redirect
- E- /Common/vs5-https-redirect

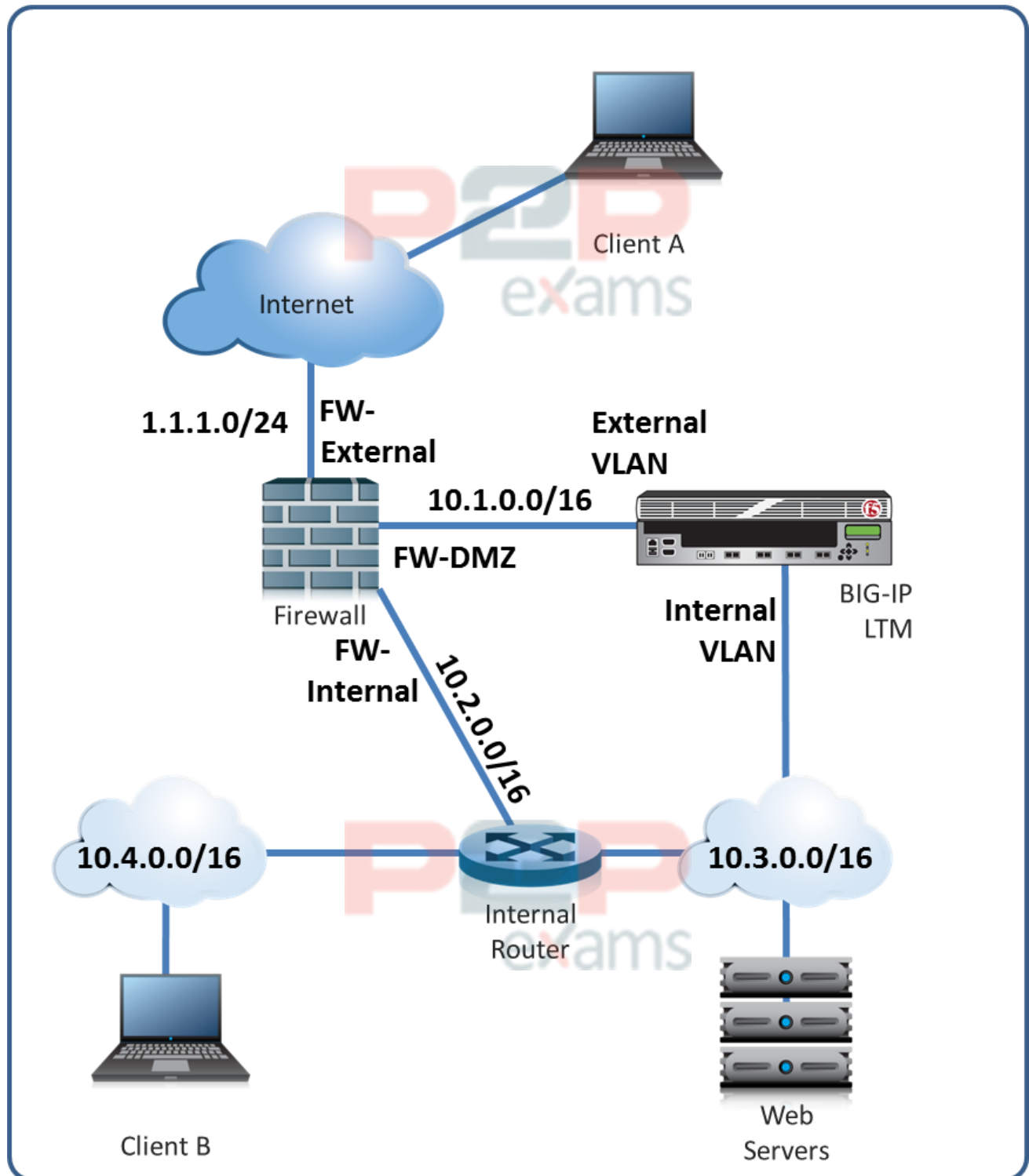
Answer:

A, D

Question 11

Question Type: MultipleChoice

-- Exhibit --



-- Exhibit --

Refer to the exhibit.

A layer 2 nPath routing configuration has been deployed. A packet capture contains a client connection packet with the following properties:

Source IP:

Destination IP:

At which two locations could the packet capture have been taken? (Choose two.)

Options:

- A- the network interface of web server
- B- the DMZ interface of the Internet firewall
- C- the internal interface of the Internet firewall
- D- the external VLAN interface of the LTM device

Answer:

A, C

Question 12

Question Type: MultipleChoice

-- Exhibit --



Custom ☐

General Configuration

Profile Name	avr_slow		
Partition / Path	Common		
Parent Profile	analytics v		
Profile Description			
Statistics Logging Type	☒ Internal ☐ External	v	
Traffic Capturing Logging Type	☐ Internal ☐ External	v	
SMTP Configuration	None (Note: Setting can be changed only through the default analytics profile.)		
Notification Type	☐ Syslog ☐ SNMP ☐ E-mail	v v v	
Trust XFF	☒ Enable	v	
Transaction Sampling Ratio	Sample all transactions (Note: Setting can be changed only through the default analytics profile.)		

Included Objects

Virtual Servers	☐	Name	Destination	Service Port	Partition / Path
	☐	vs_http	10.10.1.100	80	Common
	☐	vs_https	10.10.1.103	443	Common
	Add... Delete				

Statistics Gathering Configuration

Custom ☒

Collected Metrics	☒ Server Latency ☒ Page Load Time ☒ Throughput ☒ User Sessions Timeout: 5 minutes	<input checked="" type="button" value="v"/> <input checked="" type="button" value="v"/> <input checked="" type="button" value="v"/> <input checked="" type="button" value="v"/> <input checked="" type="button" value="v"/>
Collected Entities	☒ URLs ☐ Countries ☒ Client IP Addresses ☐ Response Codes ☐ User Agents ☒ Methods	<input checked="" type="button" value="v"/> <input checked="" type="button" value="v"/> <input checked="" type="button" value="v"/> <input checked="" type="button" value="v"/> <input checked="" type="button" value="v"/>

Note: Changes you make might take up to 10 minutes to be reflected in the charts.

General Properties	
Name	vs_https
Partition / Path	Common
Description	
Type	Standard
Destination	Type: ☒ Host ☐ Network Address: 10.10.1.103
Service Port	443 HTTPS
Availability	☒
State	Enabled
Configuration: Advanced	
Protocol	TCP
Protocol Profile (Client)	tcp
Protocol Profile (Server)	(Use Client Profile)
OneConnect Profile	None
NTLM Conn Pool	None
HTTP Profile	http
HTTP Compression Profile	None
Web Acceleration Profile	None
FTP Profile	None
RTSP Profile	None
Stream Profile	None
XML Profile	None
SSL Profile (Client)	Selected Available /Common/clientsssl << >> /Common/clientsssl-insecure-compatible wom-default-clientsssl
SSL Profile (Server)	Selected Available /Common/serverssl-insecure-compatible << >> /Common/serverssl wom-default-serverssl
Authentication Profiles	Enabled Available << >> /Common/krbdelegate ldap radius ssl_cc_ldap
IIOP Profile	None
SMTP Profile	None
DNS Profile	None
Diameter Profile	None
SIP Profile	None
Statistics Profile	None
VLAN and Tunnel Traffic	All VLANs and Tunnels
SNAT Pool	Auto Map
Rate Class	None
Traffic Class	Enabled Available << >>
Connection Limit	0
Connection Rate Limit	0
Connection Rate Limit Mode	Per Virtual Server
Address Translation	☒ Enabled
Port Translation	☒ Enabled
Source Port	Preserve
Clone Pool (Client)	None
Clone Pool (Server)	None
Auto Last Hop	Default
Last Hop Pool	None
Analytics Profile	avr_slow Note: Changes you make might take up to 10 minutes to be reflected in the charts.
NAT64	☐ Enabled
Request Logging Profile	None

-- Exhibit --

Refer to the exhibits.

When observing the AVR statistics for the HTTPS_VS, an LTM Specialist realizes that HTTP status codes are NOT being recorded.

How should the LTM Specialist modify the configuration to record the HTTP status codes?

Options:

- A- assign a streaming profile to the virtual server
- B- assign client SSL and server SSL profiles to the virtual server
- C- enable Statistics Logging Type, External on the analytics profile
- D- enable Collected Entities, Response Codes on the analytics profile

Answer:

D

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