

301B^{Q&As}

BIG-IP Local Traffic Manager (LTM) Specialist: Maintain & Troubleshoot

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QUESTION 1

Given the log entry:

011f0005:3: HTTP header (32800) exceeded maximum allowed size of 32768 (Client sidE. vip=/Common/VS_web profile=http pool=/Common/POOL_web client_ip=10.0.0.1)

Which HTTP profile setting can be modified temporarily to resolve the issue?

- A. Increase Maximum Requests
- B. Decrease Maximum Requests
- C. Increase Maximum Header Count
- D. Decrease Maximum Header Count
- E. Increase Maximum Header size
- F. Decrease Maximum Header size

Correct Answer: E

QUESTION 2

-- Exhibit -- Exhibit -Refer to the exhibits. An LTM Specialist is troubleshooting an issue with one of the virtual servers on an LTM device, and all requests are receiving errors. Testing directly against the server generates no errors. The LTM Specialist has captured the request and

Capture direct to application server

```
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on eth1, link-type EN10MB (Ethernet), capture size 96 bytes
09:46:03.428985 IP 192.168.1.1.31214 > 192.168.10.80.8443: S 1295563595:1295563595(0) win 4380 <mss 1460,nop,wscale 0,sackOK,eol>
09:46:03.430000 IP 192.168.10.80.8443 > 192.168.1.1.31214: S 2962914236:2962914236(0) ack 1295563596 win 5840 <mss 1460,nop,nop,sackOK,nop,wscale 3>
09:46:03.463946 IP 192.168.1.1.31214 > 192.168.10.80.8443: . ack 1 win 4380
09:46:03.465072 IP 192.168.10.80.8443 > 192.168.1.1.31214: P 1:137(136) ack 1 win 4380
09:46:03.466127 IP 192.168.10.80.8443 > 192.168.1.1.31214: . ack 137 win 864
09:46:03.466150 IP 192.168.1.1.31214 > 192.168.10.80.8443: P 1:139(138) ack 137 win 864
09:46:03.720163 IP 192.168.1.1.31214 > 192.168.10.80.8443: . ack 139 win 4518
09:46:03.720183 IP 192.168.1.1.31214 > 192.168.10.80.8443: P 137:196(59) ack 139 win 4518
09:46:03.721853 IP 192.168.10.80.8443 > 192.168.1.1.31214: P 196:542(346) ack 139 win 4518
09:46:03.723009 IP 192.168.10.80.8443 > 192.168.1.1.31214: . ack 542 win 998
09:46:03.723023 IP 192.168.10.80.8443 > 192.168.1.1.31214: P 1599:2693(1094) ack 542 win 998
09:46:03.723026 IP 192.168.10.80.8443 > 192.168.1.1.31214: F 2693:2693(0) ack 542 win 998
09:46:03.723060 IP 192.168.1.1.31214 > 192.168.10.80.8443: . ack 2693 win 7072
09:46:03.723072 IP 192.168.1.1.31214 > 192.168.10.80.8443: . ack 2694 win 7072
09:46:03.818084 IP 192.168.1.1.31214 > 192.168.10.80.8443: F 542:542(0) ack 2694 win 7072
09:46:03.819820 IP 192.168.10.80.8443 > 192.168.1.1.31214: . ack 543 win 998
```

Capture through LTM device

```
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on external, link-type EN10MB (Ethernet), capture size 96 bytes
16:52:54.866907 IP 192.168.1.1.6789 > 192.168.1.211.443: S 2995699259:2995699259(0) win 8192 <mss 1460,nop,wscale 2,nop,nop,sackOK>
16:52:54.866974 IP 192.168.1.211.443 > 192.168.1.1.6789: S 2305990363:2305990363(0) ack 2995699260 win 4380 <mss 1460,nop,wscale 0,sackOK,eol>
16:52:54.868417 IP 192.168.1.1.6789 > 192.168.1.211.443: . ack 1 win 16425
16:52:54.868422 IP 192.168.1.1.6789 > 192.168.1.211.443: P 1:105(104) ack 1 win 16425
16:52:54.868451 IP 192.168.1.144.6789 > 192.168.10.80.443: S 236216155:236216155(0) win 4380 <mss 1460,nop,wscale 0,sackOK,eol>
16:52:54.868457 IP 192.168.1.211.443 > 192.168.1.1.6789: . ack 105 win 4484
16:52:57.869207 IP 192.168.1.144.6789 > 192.168.10.80.443: S 236216155:236216155(0) win 4380 <mss 1460,nop,wscale 0,sackOK,eol>
16:53:01.068627 IP 192.168.1.144.6789 > 192.168.10.80.443: S 236216155:236216155(0) win 4380 <mss 1460,nop,wscale 0,sackOK,eol>
16:53:04.268911 IP 192.168.1.144.6789 > 192.168.10.80.443: S 236216155:236216155(0) win 4380 <mss 1460,sackOK,eol>
16:53:07.468781 IP 192.168.1.211.443 > 192.168.1.1.6789: R 1:1(0) ack 105 win 4484
```

response on both client and server sides of the LTM device. What should the LTM Specialist do to fix this issue?

- A. Remove "header-erase Host" in http profile.
- B. Configure SNAT Automap on the virtual server.
- C. Assign OneConnect profile to the virtual server.
- D. Set "redirect-rewrite" to "selective" in http profile.

Correct Answer: A

QUESTION 3

-- Exhibit

General Configuration Custom

Profile Name	<input type="text" value="avr_example"/>
Partition / Path	Common
Parent Profile	<input type="text" value="analytics"/>
Profile Description	<div style="border: 1px solid #ccc; height: 20px;"></div>
Statistics Logging Type	<input checked="" type="checkbox"/> Internal <input type="checkbox"/> External <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Traffic Capturing Logging Type	<input type="checkbox"/> Internal <input type="checkbox"/> External <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
SMTP Configuration	None (Note: Setting can be changed only through the default analytics profile.)
Notification Type	<input checked="" type="checkbox"/> Syslog <input type="checkbox"/> SNMP <input type="checkbox"/> E-mail <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Trust XFF	<input checked="" type="checkbox"/> Enable <input type="checkbox"/>
Transaction Sampling Ratio	Sample all transactions (Note: Setting can be changed only through the default analytics profile.)

Included Objects

	Name	Destination	Service Port	Partition / Path
Virtual Servers	No records to display.			
	<input type="button" value="Add..."/> <input type="button" value="Delete"/>			

Statistics Gathering Configuration Custom

Collected Metrics	<input checked="" type="checkbox"/> Server Latency <input type="checkbox"/> Page Load Time <input checked="" type="checkbox"/> Throughput <input type="checkbox"/> User Sessions <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Collected Entities	<input type="checkbox"/> URLs <input type="checkbox"/> Countries <input type="checkbox"/> Client IP Addresses <input checked="" type="checkbox"/> Response Codes <input type="checkbox"/> User Agents <input checked="" type="checkbox"/> Methods <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Alerts and Notifications Configuration

Add New Rule	Alert when <input type="text" value="Average TPS"/> is <input type="text" value="below"/> <input type="text" value=""/> Trans/sec, for <input type="text" value=""/> seconds in <input type="text" value="an Application"/> <input type="button" value="Add"/>				
Active Rules	<table border="1"><thead><tr><th>Rule</th><th>Edit</th></tr></thead><tbody><tr><td><input type="checkbox"/> Alert when <u>Average Server Latency</u> is below <u>50</u> ms for <u>300</u> seconds in <u>an Application</u>.</td><td><input type="button" value="Edit"/></td></tr></tbody></table> <input type="button" value="Delete"/>	Rule	Edit	<input type="checkbox"/> Alert when <u>Average Server Latency</u> is below <u>50</u> ms for <u>300</u> seconds in <u>an Application</u> .	<input type="button" value="Edit"/>
Rule	Edit				
<input type="checkbox"/> Alert when <u>Average Server Latency</u> is below <u>50</u> ms for <u>300</u> seconds in <u>an Application</u> .	<input type="button" value="Edit"/>				

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?

- 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.

Correct Answer: A

QUESTION 4

An LTM Specialist connects to an LTM device via the serial console cable and receives unreadable output. The LTM Specialist is using the appropriate cable and connecting it to the correct serial port. Which command should the LTM Specialist run through ssh to verify that the baud rate settings for the serial port are correct on the LTM device?

- A. tmsh list /sys console
- B. tmsh edit /sys console
- C. tmsh show /sys console
- D. tmsh show /ltm console

Correct Answer: C

QUESTION 5

-- Exhibit

```
ltm monitor http http_head {
  defaults-from http
  destination *:*
  interval 5
  recv <html>
  send "HEAD / HTTP/1.0\\r\\n\\r\\n"
  time-until-up 0
  timeout 16
}
ltm pool srv1_http_pool {
  members {
    192.168.2.1:http {
      address 192.168.2.1
      session monitor-enabled
      state down
    }
  }
  monitor http_head
}
```

TCPDUMP Output:

```
HEAD / HTTP/1.0
```

```
HTTP/1.1 200 OK
```

```
Date: Wed, 24 Oct 2012 18:45:53 GMT
```

```
Server: Apache/2.2.22 (FreeBSD) PHP/5.4.4 mod_ssl/2.2.22 OpenSSL/0.9.8q DAV/2
```

```
X-Powered-By: PHP/5.4.4
```

```
Connection: close
```

```
Content-Type: text/html
```

-- Exhibit -

Refer to the exhibit.

An LTM Specialist is troubleshooting a new HTTP monitor on a pool. The pool member is functioning correctly when accessed directly through a browser. However, the monitor is marking the member as down. The LTM Specialist captures

the monitor traffic via tcpdump.

What is the issue?

- A. The server is marking the connection as closed.
- B. The pool member is rejecting the monitor request.
- C. The monitor request is NOT returning the page body.
- D. The `time-until-up` setting on the monitor is incorrect.

Correct Answer: C

QUESTION 6

An LTM Specialist configures an HTTP monitor as follows:

```
ltm monitor http stats_http_monitor { defaults-from http destination *.* interval 5 recv "Health check: OK" send "GET /stats/stats.html HTTP/1.1\r\nHost: www.example.com\r\nAccept-Encoding: gzip, deflate\r\nConnection: close\r\n\r\n" time-until-up 0 timeout 16 }
```

The monitor is marking all nodes as down. A trace of the HTTP conversation shows the following:

GET /stats/stats.html HTTP/1.1 Host: www.example.com Accept-Encoding: gzip, deflate Connection: close

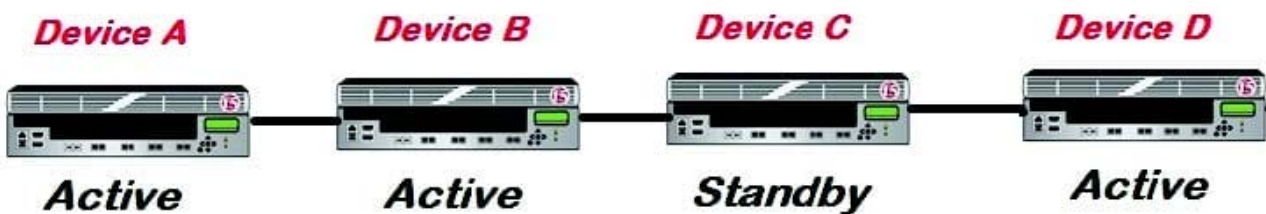
HTTP/1.1 401 Authorization Required Date: Tue, 23 Oct 2012 19:38:56 GMT Server: Apache/2.2.15 (Unix) WWW-Authenticate: Basic realm="Please enter your credentials" Content-Length: 480 Connection: close Content-Type: text/html; charset=iso-8859-1 Which action will resolve the problem?

- A. Add an NTLM profile to the virtual server.
- B. Add a valid username and password to the monitor.
- C. Use an HTTPS monitor with a valid certificate instead.
- D. Add a backslash before the colon in the receive string.

Correct Answer: B

QUESTION 7

-- Exhibit



-- Exhibit -Refer to the exhibit.

An LTM Specialist is upgrading the LTM devices.

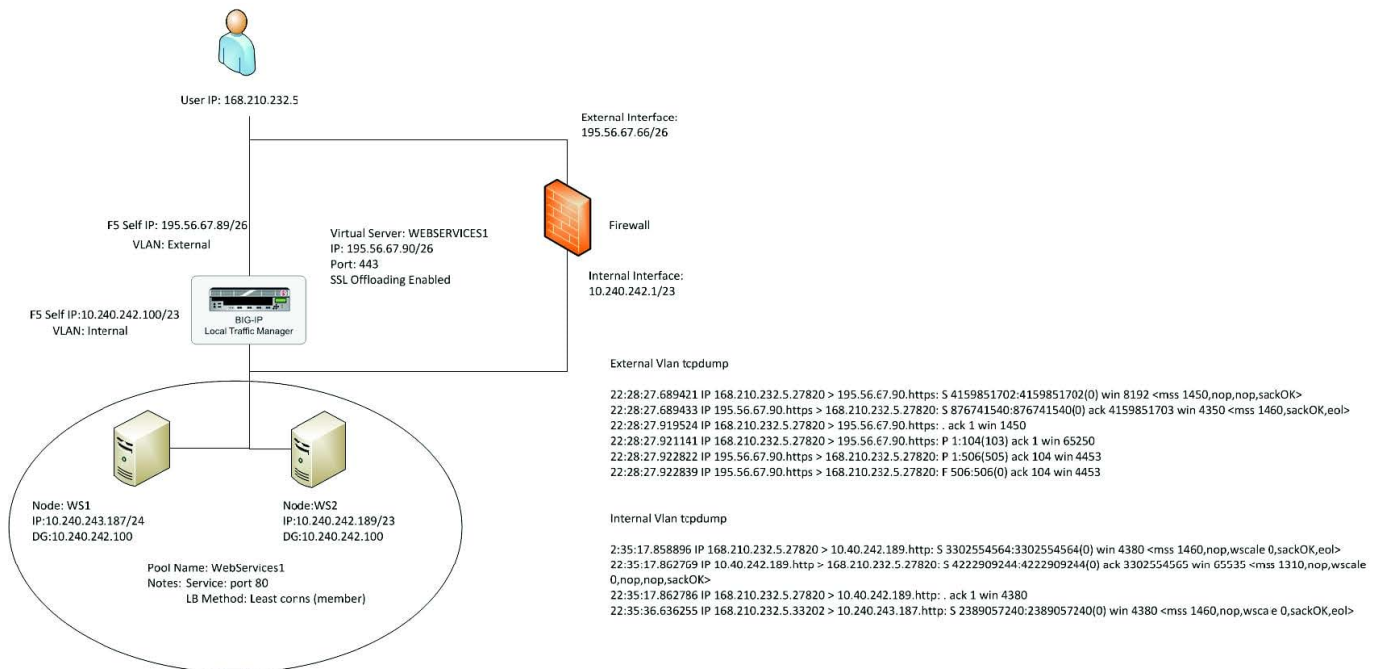
Which device should be upgraded first?

- A. Device A
- B. Device B
- C. Device C
- D. Device D

Correct Answer: C

QUESTION 8

-- Exhibit



-- Exhibit -Refer to the exhibit.

An LTM Specialist has a virtual server set up on the LTM device as per the exhibit. The LTM Specialist receives reports of intermittent issues. Some clients are connecting fine while others are failing to connect.

The LTM Specialist does a tcpdump on the relevant interfaces, with the following results extracted:

What is causing the intermittent issues?

- A. The firewall is dropping the packets from WS1.
- B. The default gateway is inaccessible from WS1.
- C. The load balancing (LB) method is inappropriate.
- D. The pool members have been set up as an active/standby pair, with WS1 as the standby.

Correct Answer: B

QUESTION 9

What is the recommended procedure for upgrading a major TMOS release on a BIG-IP platform?

A. 1. Renew the device license.

2.

Take a configuration backup.

3.

Reboot the device to the non-active volume.

4.

Upload the device code.

5.

Install device code to the current volume.

B. 1. Take a configuration backup.

2.

Upload the device code.

3.

Install device code to the non-active volume.

4.

Reboot the device to the non-active volume.

5.

Renew the device license.

C. 1. Renew the device license.

2.

Take a configuration backup.

3.

Upload the device code.

4.

Install device code to the non-active volume.

5.

Reboot the device to the non-active volume.

D. 1. Take a configuration backup.

2.

Reboot the device to the non-active volume.

3.

Renew the device license.

4.

Upload the device code.

5.

Install device code to the current volume.

Correct Answer: C

QUESTION 10

-- Exhibit

```
ltm monitor http memberA_mon {
  defaults-from http
  destination *:*
  interval 5
  send "GET /\r\n"
  time-until-up 0
  timeout 16
}
ltm monitor http memberB_mon {
  defaults-from http
  destination *:*
  interval 5
  send "GET /\r\n"
  time-until-up 0
  timeout 16
}
ltm monitor http memberC_mon {
  defaults-from http
  destination *:*
  interval 5
  send "GET /\r\n"
  time-until-up 0
  timeout 16
}

ltm pool member_pool {
  members {
    memberA:http {
      address 192.168.30.10
      monitor memberA_mon
      session monitor-enabled
      state down
    }
    memberB:http {
      address 192.168.30.20
      monitor memberB_mon
      session monitor-enabled
      state down
    }
    memberC:http {
      address 192.168.30.30
      monitor memberC_mon
      session monitor-enabled
      state down
    }
  }
}
```

-- Exhibit -Refer to the exhibits.

How should the LTM Specialist minimize the configuration?

- A. Remove the pool member level monitors.
- B. The configuration is as minimized as possible.
- C. Create a single monitor and apply it to each pool member.
- D. Create a single monitor, apply it to the pool, and remove the pool member level monitors.

Correct Answer: D

QUESTION 11

-- Exhibit

```
ltm profile httpclass acct_class {
    app-service none
    defaults-from httpclass
    paths { glob:/accounting }
    pool srv1_http_pool
    redirect none
}
ltm profile httpclass marketing_class {
    app-service none
    defaults-from httpclass
    paths { glob:/marketing }
    pool srv1_http_pool
    redirect none
}
ltm profile httpclass default_class {
    app-service none
    defaults-from httpclass
    pool srv2_http_pool
    redirect none
}
ltm virtual http_vs {
    destination 192.168.1.155:http
    http-class {
        acct_class
        marketing_class
        default_class
    }
    ip-protocol tcp
    mask 255.255.255.255
    pool srv2_http_pool
    profiles {
        http { }
        tcp { }
    }
    snat automap
    vlans-disabled
}
```

-- Exhibit -Refer to the exhibit.

An LTM Specialist is reviewing the virtual server configuration on an LTM device.

Which two actions should the LTM Specialist perform to minimize the virtual server configuration? (Choose two.)

- A. Remove `snat automap` from the virtual server.
- B. Remove the `http` profile from the virtual server.
- C. Remove the `default_class` from the virtual server.
- D. Combine `acct_class` and `marketing_class` into one class and update associations on the virtual server.
- E. Combine `marketing_class` and `default_class` into one class and update associations on the virtual server.

Correct Answer: CD

QUESTION 12

-- Exhibit

```
1 1 0.2423 (0.2423) C>S Handshake
  ClientHello
    Version 3.2
    cipher suites
      TLS_DHE_RSA_WITH_AES_256_CBC_SHA
      TLS_DHE_DSS_WITH_AES_256_CBC_SHA
      TLS_DHE_DSS_WITH_3DES_EDE_CBC_SHA
      TLS_RSA_WITH_3DES_EDE_CBC_SHA
    compression methods
      NULL
Unknown SSL content type 72
1 2 0.2432 (0.0008) S>CShort record
1 0.2432 (0.0000) S>C TCP FIN
New TCP connection #2: 168.210.232.5(24782) <->
193.33.229.103(443)
2 1 0.2393 (0.2393) C>S Handshake
  ClientHello
    Version 3.2
    cipher suites
      TLS_DHE_RSA_WITH_AES_256_CBC_SHA
      TLS_DHE_DSS_WITH_AES_256_CBC_SHA
      TLS_DHE_DSS_WITH_3DES_EDE_CBC_SHA
      TLS_RSA_WITH_3DES_EDE_CBC_SHA
    compression methods
      NULL
Unknown SSL content type 72
2 2 0.2404 (0.0010) S>CShort record
2 0.2404 (0.0000) S>C TCP FIN
2 3 0.4738 (0.2333) C>S Alert
  level          fatal
  value          unexpected_message
2 0.4742 (0.0003) C>S TCP FIN
1 3 0.4857 (0.2425) C>S Alert
  level          fatal
  value          unexpected_message
1 0.4857 (0.0000) C>S TCP FIN
```

-- Exhibit -Refer to the exhibit. A client attempts to connect from a Google Chrome browser to a virtual server on a BIG-IP LTM. The virtual server is SSL Offloaded. When the client connects, the client receives an SSL error. After trying Mozilla Firefox and Internet Explorer

browsers, the client still receives the same errors.

The LTM Specialist does an ssldump on the virtual server and receives the results as per the exhibit.

What is the problem?

- A. The SSL key length is incorrect.
- B. The BIG-IP LTM is NOT serving a certificate.
- C. The BIG-IP LTM is NOT listening on port 443.
- D. The client needs to be upgraded to the appropriate cipher-suite.

Correct Answer: B

QUESTION 13

An LTM device pair is configured for failover and connection mirroring. The LTM devices are configured with virtual servers for HTTP, HTTPS with SSL offload, and SSH. An event occurs that causes a failover. HTTP and SSH sessions active at the time of failover remain active, but HTTPS sessions are dropped.

What is the root cause of this problem?

- A. The SSL certificates on the LTM devices do NOT match.
- B. Connection mirroring is incompatible with clientssl profiles.
- C. SNAT automap was NOT enabled for the HTTPS virtual servers.
- D. Connection mirroring was NOT enabled for the HTTPS virtual servers.

Correct Answer: B

QUESTION 14

Internet clients connecting to a virtual server to download a file are experiencing about 150 ms of latency and no packet loss. Which built-in client-side TCP profile provides the highest throughput?

- A. tcp
- B. tcp-legacy
- C. tcp-lan-optimized
- D. tcp-wan-optimized

Correct Answer: D

QUESTION 15

-- Exhibit

```
itm 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
}
}

itm 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
}
}

itm 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
}
}

itm 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
}
}

itm 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.)

- 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

Correct Answer: AD

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