



301B^{Q&As}

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

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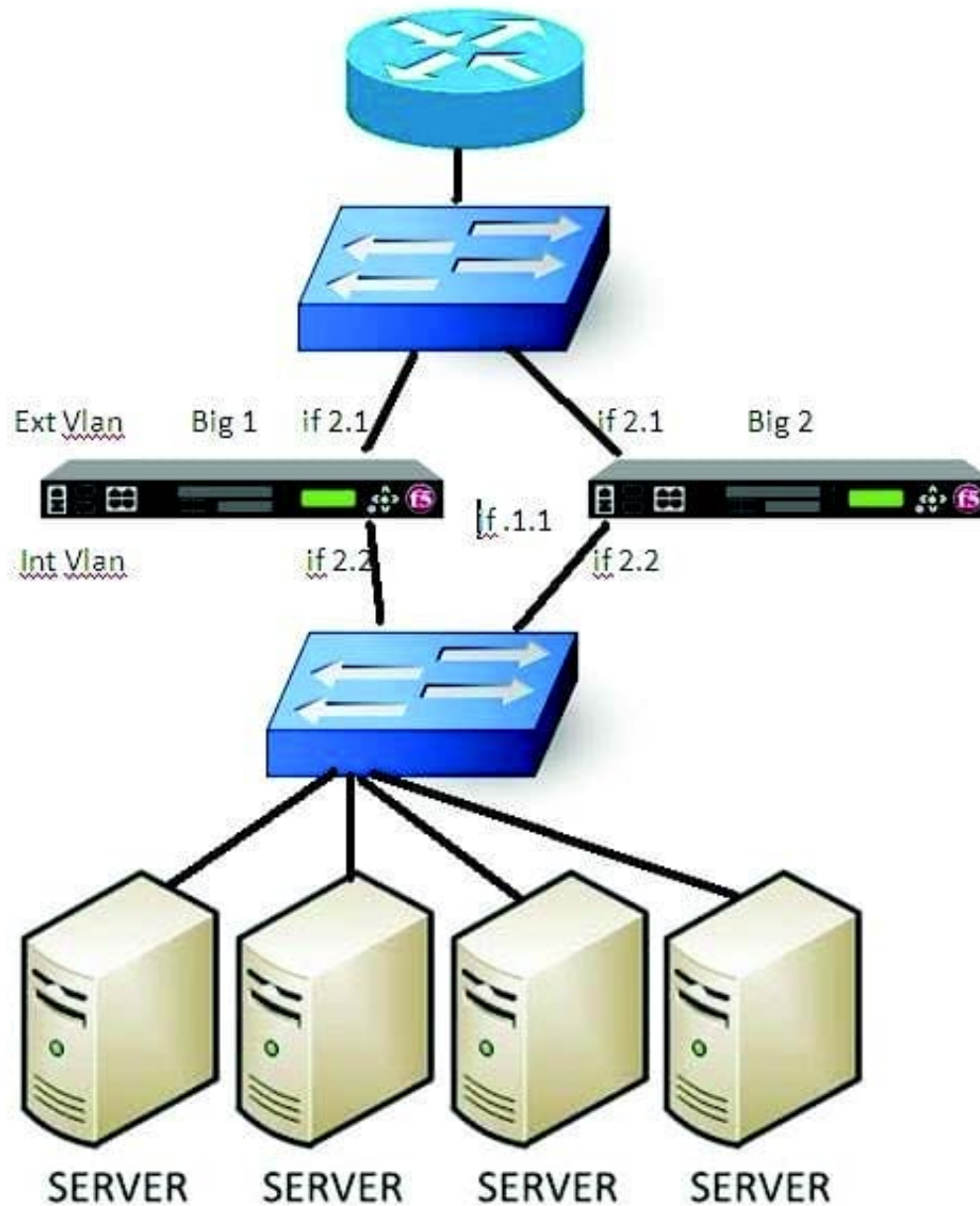
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**QUESTION 1**

-- Exhibit



-- Exhibit -Refer to the exhibit.

A failover has just occurred on BIG-IP1. BIG-IP2 is now active and manages traffic as expected. Both Bigip's are set with a gateway failsafe to check the reachability of the main border router.

Switches have performed as expected.

Where should the LTM Specialist check for potential issues?

A. Network Interface 2.1 of BIG-IP 2



- B. Network Interface 2.1 of BIG-IP 1
- C. Network Interface 2.2 of BIG-IP 2
- D. Network Interface 2.2 of BIG-IP 1
- E. Network Interface 1.1 of BIG-IP 1
- F. Network Interface 1.1 of BIG-IP 2

Correct Answer: B

QUESTION 2

A web application sends information about message integrity and content life time to the client. Which two HTTP headers should be used in sending the client information? (Choose two.)

- A. ETag
- B. Expect
- C. Expires
- D. Content-MD5
- E. Content-Range
- F. Content-Length

Correct Answer: CD

QUESTION 3

An HA pair of LTM devices configured in Active-Standby mode stops responding to traffic and causes an outage. The Active device becomes Standby, but the partner device stays in Standby mode instead of taking over as Active. A reboot and restart of the services brings the LTM device to Active mode for a short time, but then it goes into Standby mode again.

Which two configuration components caused this condition? (Choose two.)

- A. VLAN Fail-safe
- B. System Fail-safe
- C. Gateway Fail-safe
- D. Switch Board Failure
- E. Link down on Failover



Correct Answer: AC

QUESTION 4

A new web application is hosted at www.example.net, but some clients are still pointing to the legacy web application at www.example.com.

Which iRule will allow clients referencing www.example.com to access the new application?

- A.

```
when HTTP_REQUEST { if {[HTTP::host] equals "www.example.*" }{ HTTP::redirect "http://www.example.net" } }
```
- B.

```
when HTTP_REQUEST { if {[HTTP::host] equals "www.example.com" }{ HTTP::redirect "http://www.example.net" } }
```
- C.

```
when HTTP_DATA { if {[HTTP::host] equals "www.example.*" }{ HTTP::redirect "http://www.example.net" } }
```
- D.

```
when HTTP_RESPONSE {  
  if {[HTTP::host] equals "www.example.com" }{  
    HTTP::redirect "http://www.example.net" }  
}
```

Correct Answer: B

QUESTION 5

-- Exhibit



Packet capture through LTM device

```
09:26:40.158653 IP 172.16.1.3.54990 > 172.16.20.21.https: S 2815629254:2815629254(0) win 4380 <msg 1460,nop,wscale 0,nop,nop,timestamp 2562669213 0,sackOK,eol>
0x0000: 4500 0040 092b 4000 ff06 0554 ac10 0103 E..8.+f....T....
0x0010: ac10 1415 d6ce 01bb a7d3 17c6 0000 0000 .....
0x0020: b002 111c 4d2d 0000 0204 05b4 0103 0300 ....M-.....
0x0030: 0101 080a 98bf 3a9d 0000 0000 0402 0000 .....
09:26:40.160133 IP 172.16.20.21.https > 172.16.1.3.54990: S 4117971743:4117971743(0) ack 2815629255 win 14480 <msg 1460,sackOK,timestamp 232592 2562669213,nop,wscale 4>
0x0000: 4500 003c 0000 4000 4006 cd83 ac10 1415 E.<...@.....
0x0010: ac10 0103 01bb d6ce f573 431f a7d3 17c7 .....sC.....
0x0020: a012 3890 7182 0000 0204 05b4 0402 080a ..8.q.....
0x0030: 0003 8c90 98bf 3a9d 0103 0304 .....
09:26:40.160143 IP 172.16.1.3.54990 > 172.16.20.21.https: . ack 1 win 4380 <nop,nop,timestamp 2562669215 232592>
0x0000: 4500 0034 092e 4000 ff06 055d ac10 0103 E..4..@....]....
0x0010: ac10 1415 d6ce 01bb a7d3 17c7 f573 4320 .....sC.....
0x0020: 8010 111c c7bd 0000 0101 080a 98bf 3a9f .....:..
0x0030: 0003 8c90 .....
09:26:40.160150 IP 172.16.1.3.54990 > 172.16.20.21.https: P 1:442(441) ack 1 win 4380 <nop,nop,timestamp 2562669215 232592>
0x0000: 4500 01ed 0930 4000 ff06 03a2 ac10 0103 E....0@.....
0x0010: ac10 1415 d6ce 01bb a7d3 17c7 f573 4320 .....sC.....
0x0020: 8018 111c b0a8 0000 0101 080a 98bf 3a9f .....:..
0x0030: 0003 8c90 4745 5420 2f20 4854 5450 2f31 ....GET./..HTTP/1
0x0040: 2e31 040a 486f 7374 3a20 7777 772e 6578 ..Host:www.ex
0x0050: 616d am
09:26:40.163290 IP 172.16.20.21.https > 172.16.1.3.54990: . ack 442 win 972 <nop,nop,timestamp 232592 2562669215>
0x0000: 4500 0034 cfb0 4000 4006 fdaa ac10 1415 E..4..@.....
0x0010: ac10 0103 01bb d6ce f573 4320 a7d3 1980 .....sC.....
0x0020: 8010 03cc d354 0000 0101 080a 0003 8c90 ....T.....
0x0030: 98bf 3a9f .....:..
09:26:40.164206 IP 172.16.20.21.https > 172.16.1.3.54990: P 1:527(526) ack 442 win 972 <nop,nop,timestamp 232592 2562669215>
0x0000: 4500 0242 cfb1 4000 4006 fbc8 ac10 1415 E..B..@.....
0x0010: ac10 0103 01bb d6ce f573 4320 a7d3 1980 .....sC.....
0x0020: 8018 03cc c59e 0000 0101 080a 0003 8c90 .....
0x0030: 98bf 3a9f 3c21 444f 4354 5950 4520 4854 ...<!DOCTYPE.HT
0x0040: 4d4c 2050 5542 4c49 4320 222d 2f2f 4945 ML.PUBLIC."-//IE
0x0050: 5446 TF
09:26:40.164226 IP 172.16.1.3.54990 > 172.16.20.21.https: . ack 527 win 4906 <nop,nop,timestamp 2562669219 232592>
0x0000: 4500 0034 0934 4000 ff06 0557 ac10 0103 E..4.4@....W....
0x0010: ac10 1415 d6ce 01bb a7d3 1980 f573 452e .....sE.....
0x0020: 8010 132a c1e4 0000 0101 080a 98bf 3aa3 ...*.....:..
0x0030: 0003 8c90 .....
09:26:40.165322 IP 172.16.20.21.https > 172.16.1.3.54990: F 527:527(0) ack 442 win 972 <nop,nop,timestamp 232592 2562669215>
0x0000: 4500 0034 cfb2 4000 4006 fdd8 ac10 1415 E..4..@.....
0x0010: ac10 0103 01bb d6ce f573 452e a7d3 1980 .....sE.....
0x0020: 8011 03cc d145 0000 0101 080a 0003 8c90 .....E.....
0x0030: 98bf 3a9f .....:..
09:26:40.165343 IP 172.16.1.3.54990 > 172.16.20.21.https: . ack 528 win 4906 <nop,nop,timestamp 2562669220 232592>
0x0000: 4500 0034 0938 4000 ff06 0553 ac10 0103 E..4.8@....S....
0x0010: ac10 1415 d6ce 01bb a7d3 1980 f573 452f .....sE/.....
0x0020: 8010 132a c1e2 0000 0101 080a 98bf 3aa4 ...*.....:..
0x0030: 0003 8c90 .....
09:26:40.171962 IP 172.16.1.3.54990 > 172.16.20.21.https: F 442:442(0) ack 528 win 4906 <nop,nop,timestamp 2562669227 232592>
0x0000: 4500 0034 093c 4000 ff06 054f ac10 0103 E..4.<@....O....
0x0010: ac10 1415 d6ce 01bb a7d3 1980 f573 452f .....sE/.....
0x0020: 8011 132a c1da 0000 0101 080a 98bf 3aab ...*.....:..
0x0030: 0003 8c90 .....
09:26:40.177604 IP 172.16.20.21.https > 172.16.1.3.54990: . ack 443 win 972 <nop,nop,timestamp 232595 2562669227>
0x0000: 4500 0034 cfb3 4000 4006 fdd7 ac10 1415 E..4..@.....
0x0010: ac10 0103 01bb d6ce f573 452f a7d3 1981 .....sE/.....
0x0020: 8010 03cc d135 0000 0101 080a 0003 8c93 .....S.....
0x0030: 98bf 3aab .....:..
```




Packet capture direct to application server

```
09:36:28.845154 IP 1.1.2.150.55073 > 172.16.20.21.https: S 3718695743:3718695743(0) win 65535 <mss 1460,nop,wscale 3,nop,nop,timestamp 685424210 0,sackOK,eol>
0x0000: 4500 0040 f88c 4000 4006 7e6f 0101 0296 E..@..@..@..o....
0x0010: ac10 1415 d721 01bb dda6 cb3f 0000 0000 .....!.....?....
0x0020: b002 ffff 0a53 0000 0204 05b4 0103 0303 .....S.....
0x0030: 0101 080a 28da be52 0000 0000 0402 0000 .....(..R.....
09:36:28.845218 IP 1.1.2.150.55073 > 172.16.20.21.https: S 3718695743:3718695743(0) win 65535 <mss 1460,nop,wscale 3,nop,nop,timestamp 685424210 0,sackOK,eol>
0x0000: 4500 0040 f88c 4000 3f06 7f6f 0101 0296 E..@..@..?..o....
0x0010: ac10 1415 d721 01bb dda6 cb3f 0000 0000 .....!.....?....
0x0020: b002 ffff 0a53 0000 0204 05b4 0103 0303 .....S.....
0x0030: 0101 080a 28da be52 0000 0000 0402 0000 .....(..R.....
09:36:28.846583 IP 172.16.20.21.https > 1.1.2.150.55073: S 1893621123:1893621123(0) ack 3718695744 win 14480 <mss 1460,sackOK,timestamp 379759 685424210,nop,wscale 4>
0x0000: 4500 003c 0000 4000 4006 7700 ac10 1415 E...<..@..@..w....
0x0010: 0101 0296 01bb d721 70de 5d83 dda6 cb40 .....!p.]....@
0x0020: a012 3890 48df 0000 0204 05b4 0402 080a ..S.H.....
0x0030: 0005 cb6f 28da be52 0103 0304 .....o(..R....
09:36:28.848001 IP 172.16.20.21.https > 1.1.2.150.55073: S 1893621123:1893621123(0) ack 3718695744 win 14480 <mss 1460,sackOK,timestamp 379759 685424210,nop,wscale 4>
0x0000: 4500 003c 0000 4000 3f06 7800 ac10 1415 E...<..@..?..x....
0x0010: 0101 0296 01bb d721 70de 5d83 dda6 cb40 .....!p.]....@
0x0020: a012 3890 48df 0000 0204 05b4 0402 080a ..S.H.....
0x0030: 0005 cb6f 28da be52 0103 0304 .....o(..R....
09:36:28.848010 IP 1.1.2.150.55073 > 172.16.20.21.https: . ack 1 win 65535 <nop,nop,timestamp 685424212 379759>
0x0000: 4500 0034 8891 4000 4006 ee76 0101 0296 E..4..@..@..v....
0x0010: ac10 1415 d721 01bb dda6 cb40 70de 5d84 .....!.....@p.].
0x0020: 8010 ffff b036 0000 0101 080a 28da be54 .....6.....[.T
0x0030: 0005 cb6f .....
09:36:28.848020 IP 1.1.2.150.55073 > 172.16.20.21.https: . ack 1 win 65535 <nop,nop,timestamp 685424212 379759>
0x0000: 4500 0034 8891 4000 3f06 ef76 0101 0296 E..4..@..?..v....
0x0010: ac10 1415 d721 01bb dda6 cb40 70de 5d84 .....!.....@p.].
0x0020: 8010 ffff b036 0000 0101 080a 28da be54 .....6.....[.T
0x0030: 0005 cb6f .....
09:36:28.849049 IP 1.1.2.150.55073 > 172.16.20.21.https: P 1:378(377) ack 1 win 65535 <nop,nop,timestamp 685424212 379759>
0x0000: 4500 01ad faf8 4000 4006 7a9e 0101 0296 E.....@..@..z.....
0x0010: ac10 1415 d721 01bb dda6 cb40 70de 5d84 .....!.....@p.].
0x0020: 8018 ffff 7e10 0000 0101 080a 28da be54 .....!.....[.T
0x0030: 0005 cb6f 1603 0101 7401 0001 7003 0150 .....o.....t.....p..P
0x0040: 896a 8bb0 c37c 5a0d 89fa 8a3c 69a7 6fc8 .j....|Z....<i.o.
0x0050: 4e80 N.
09:36:28.849058 IP 1.1.2.150.55073 > 172.16.20.21.https: P 1:378(377) ack 1 win 65535 <nop,nop,timestamp 685424212 379759>
0x0000: 4500 01ad faf8 4000 3f06 7b9e 0101 0296 E.....@..?..{.....
0x0010: ac10 1415 d721 01bb dda6 cb40 70de 5d84 .....!.....@p.].
0x0020: 8018 ffff 7e10 0000 0101 080a 28da be54 .....!.....[.T
0x0030: 0005 cb6f 1603 0101 7401 0001 7003 0150 .....o.....t.....p..P
0x0040: 896a 8bb0 c37c 5a0d 89fa 8a3c 69a7 6fc8 .j....|Z....<i.o.
0x0050: 4e80 N.
09:36:28.860618 IP 172.16.20.21.https > 1.1.2.150.55073: . ack 378 win 972 <nop,nop,timestamp 379760 685424212>
0x0000: 4500 0034 96f4 4000 4006 e013 ac10 1415 E..4..@..@.....
0x0010: 0101 0296 01bb d721 70de 5d84 dda6 ccb9 .....!p.].....
0x0020: 8010 03cc aaf0 0000 0101 080a 0005 cb70 .....!.....p
0x0030: 28da be54 .....[.T
09:36:28.866855 IP 172.16.20.21.https > 1.1.2.150.55073: P 1:146(145) ack 378 win 972 <nop,nop,timestamp 379760 685424212>
0x0000: 4500 00c5 96f5 4000 4006 df81 ac10 1415 E.....@..@.....
0x0010: 0101 0296 01bb d721 70de 5d84 dda6 ccb9 .....!p.].....
0x0020: 8018 03cc 34d2 0000 0101 080a 0005 cb70 ....4.....p
0x0030: 28da be54 1603 0100 5102 0000 4d03 0150 (...T...Q...M..P
0x0040: 896a 8b92 fc5e 9fcf e589 3000 db6b d215 .j....^....0..k..
0x0050: d915 ..
09:36:28.873827 IP 172.16.20.21.https > 1.1.2.150.55073: . ack 378 win 972 <nop,nop,timestamp 379760 685424212>
0x0000: 4500 0034 96f4 4000 3f06 e113 ac10 1415 E..4..@..?.....
0x0010: 0101 0296 01bb d721 70de 5d84 dda6 ccb9 .....!p.].....
0x0020: 8010 03cc aaf0 0000 0101 080a 0005 cb70 .....!.....p
0x0030: 28da be54 .....[.T
09:36:28.876654 IP 172.16.20.21.https > 1.1.2.150.55073: P 1:146(145) ack 378 win 972 <nop,nop,timestamp 379760 685424212>
0x0000: 4500 00c5 96f5 4000 3f06 e081 ac10 1415 E.....@..?.....
0x0010: 0101 0296 01bb d721 70de 5d84 dda6 ccb9 .....!p.].....
0x0020: 8018 03cc 34d2 0000 0101 080a 0005 cb70 ....4.....p
0x0030: 28da be54 1603 0100 5102 0000 4d03 0150 (...T...Q...M..P
0x0040: 896a 8b92 fc5e 9fcf e589 3000 db6b d215 .j....^....0..k..
0x0050: d915 ..
09:36:28.876662 IP 1.1.2.150.55073 > 172.16.20.21.https: . ack 146 win 65535 <nop,nop,timestamp 685424229 379760>
0x0000: 4500 0034 30e7 4000 4006 4621 0101 0296 E..40.@..@..F!....
0x0010: ac10 1415 d721 01bb dda6 ccb9 70de 5e15 .....!.....p.^..
0x0020: 8010 ffff ae1a 0000 0101 080a 28da be65 .....!.....[.e
0x0030: 0005 cb70 .....p
09:36:28.876665 IP 1.1.2.150.55073 > 172.16.20.21.https: P 378:437(59) ack 146 win 65535 <nop,nop,timestamp 685424229 379760>
0x0000: 4500 006f a8df 4000 4006 cded 0101 0296 E..o..@..@.....
0x0010: ac10 1415 d721 01bb dda6 ccb9 70de 5e15 .....!.....p.^..
0x0020: 8018 ffff 16ec 0000 0101 080a 28da be65 .....!.....[.e
0x0030: 0005 cb70 1403 0100 0101 1603 0100 3012 ...p.....0.
0x0040: 937a 270f b9ec 79eb 58e0 0dce 483e 5ad6 .z'...y.X...H>Z.
0x0050: d076 .v
09:36:28.876672 IP 1.1.2.150.55073 > 172.16.20.21.https: . ack 146 win 65535 <nop,nop,timestamp 685424229 379760>
0x0000: 4500 0034 30e7 4000 3f06 4721 0101 0296 E..40.@..?..G!....
0x0010: ac10 1415 d721 01bb dda6 ccb9 70de 5e15 .....!.....p.^..
0x0020: 8010 ffff ae1a 0000 0101 080a 28da be65 .....!.....[.e
0x0030: 0005 cb70 .....p
09:36:28.876675 IP 1.1.2.150.55073 > 172.16.20.21.https: P 378:437(59) ack 146 win 65535 <nop,nop,timestamp 685424229 379760>
0x0000: 4500 006f a8df 4000 3f06 ceed 0101 0296 E..o..@..?.....
0x0010: ac10 1415 d721 01bb dda6 ccb9 70de 5e15 .....!.....p.^..
0x0020: 8018 ffff 16ec 0000 0101 080a 28da be65 .....!.....[.e
0x0030: 0005 cb70 1403 0100 0101 1603 0100 3012 ...p.....0.
0x0040: 937a 270f b9ec 79eb 58e0 0dce 483e 5ad6 .z'...y.X...H>Z.
0x0050: d076 .v
09:36:28.876677 IP 1.1.2.150.55073 > 172.16.20.21.https: F 437:437(0) ack 146 win 65535 <nop,nop,timestamp 685424229 379760>
0x0000: 4500 0034 edd7 4000 3f06 8a30 0101 0296 E..4..@..@..o....
0x0010: ac10 1415 d721 01bb dda6 ccf4 70de 5e15 .....!.....p.^..
0x0020: 8011 ffff adde 0000 0101 080a 28da be65 .....!.....[.e
0x0030: 0005 cb70 .....p
09:36:28.877644 IP 1.1.2.150.55073 > 172.16.20.21.https: F 437:437(0) ack 146 win 65535 <nop,nop,timestamp 685424229 379760>
0x0000: 4500 0034 edd7 4000 4006 8930 0101 0296 E..4..@..@..o....
0x0010: ac10 1415 d721 01bb dda6 ccf4 70de 5e15 .....!.....p.^..
0x0020: 8011 ffff adde 0000 0101 080a 28da be65 .....!.....[.e
0x0030: 0005 cb70 .....p
```

-- Exhibit -

Refer to the exhibits.



An LTM Specialist has configured a virtual server to distribute connections to a pool of application servers and to offload SSL processing. The application fails to work as expected when connecting to the virtual server. It does work when

clients connect directly to the application. Two packet captures were taken at the application server.

What is the root cause of the problem?

- A. The application servers are NOT listening on port 80.
- B. The LTM device is sending non-SSL traffic to an SSL port.
- C. The virtual server does NOT have a clientSSL profile assigned.
- D. The SSL handshake between the LTM device and the server is failing.

Correct Answer: B

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