

301B^{Q&As}

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

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QUESTION 1

-- Exhibit

No.	Time	Source	Src Port	Destination	Dst Port	Protocol	Length	Info
114	17.145218	172.16.20.3	21	10.10.1.2	50645	TCP	92	ftp > 50645 [ACK] Seq=116 Ack=48 Win=5792 Len=0 TSval=86604174 TSecr=2562824726
115	17.145221	172.16.20.3	21	10.10.1.2	50645	FTP	111	Response: 215 UNIX Type: L8
117	17.145252	10.10.1.2	50645	172.16.20.3	21	TCP	92	50645 > ftp [ACK] Seq=48 Ack=135 Win=4514 Len=0 TSval=2562824728 TSecr=86604174
132	20.937633	10.10.1.2	50645	172.16.20.3	21	FTP	116	Request: PORT 10,10,1,2,162,211
135	20.942198	172.16.20.3	21	10.10.1.2	50645	FTP	143	Response: 200 PORT command successful. Consider using PASV.
137	20.942235	10.10.1.2	50645	172.16.20.3	21	TCP	92	50645 > ftp [ACK] Seq=72 Ack=186 Win=4565 Len=0 TSval=2562828525 TSecr=86607970
141	20.945471	10.10.1.2	50645	172.16.20.3	21	FTP	98	Request: LIST
144	20.948418	172.16.20.3	20	10.10.1.2	41683	TCP	100	ftp-data > 41683 [SYN] Seq=0 Win=5840 Len=0 MSS=1460 SACK_PERM=1 TSval=86607976 TSecr=0 WS=8
145	20.987396	172.16.20.3	21	10.10.1.2	50645	TCP	92	ftp > 50645 [ACK] Seq=186 Ack=78 Win=5792 Len=0 TSval=86608016 TSecr=2562828528
147	23.947014	172.16.20.3	20	10.10.1.2	41683	TCP	100	ftp-data > 41683 [SYN] Seq=0 Win=5840 Len=0 MSS=1460 SACK_PERM=1 TSval=86610976 TSecr=0 WS=8
150	29.946271	172.16.20.3	20	10.10.1.2	41683	TCP	100	ftp-data > 41683 [SYN] Seq=0 Win=5840 Len=0 MSS=1460 SACK_PERM=1 TSval=86616976 TSecr=0 WS=8
153	41.946358	172.16.20.3	20	10.10.1.2	41683	TCP	100	ftp-data > 41683 [SYN] Seq=0 Win=5840 Len=0 MSS=1460 SACK_PERM=1 TSval=86628976 TSecr=0 WS=8
157	65.946527	172.16.20.3	20	10.10.1.2	41683	TCP	100	ftp-data > 41683 [SYN] Seq=0 Win=5840 Len=0 MSS=1460 SACK_PERM=1 TSval=86652976 TSecr=0 WS=8

-- Exhibit -Refer to the exhibit.

An LTM Specialist is investigating reports that users are unable to perform some commands through an FTP virtual server. The LTM Specialist performs a capture on the server side of the LTM device.

What is the issue with the application?

- A. data connection failing
- B. LIST command disallowed
- C. PORT command disallowed
- D. command connection failing

Correct Answer: A

QUESTION 2

An LTM Specialist needs to rewrite text within an HTML response from a web server. A client is sending the following HTTP request: GET / HTTP/1.1 Host: www.example.com User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:16.0) Gecko/20100101 Firefox/16.0 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8 Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate Cache-Control: no-cache Connection: keep-alive Cookie: somecookie=1

HTTP/1.1 200 OK Server: Apache/2.2.15 (Unix) Last-Modified: Wed, 12 Aug 2009 00:00:30 GMT Accept-Ranges: bytes Content-Length: 1063 X-Connection: close Content-Type: text/html; charset=UTF-8 Vary: Accept-Encoding Content-Encoding: gzip Connection: Keep-Alive

Although a stream profile has been added to the virtual server, the content within the HTTP response is NOT being matched and therefore NOT modified.

Which header field is contributing to the issue?

- A. HTTP Method
- B. Cookie content
- C. User-Agent Value

D. Accept-Encoding header

Correct Answer: D

QUESTION 3

-- 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..@.+.@....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: F 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 ..1..Host:www.ex
0x0050: 616d .....
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 fdda 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 ...<!DOCTYPEE.HI
0x0040: 4d4c 2050 5542 4c49 4320 222d 2f2f 4945 ML.PUBLIC."-//IE
0x0050: 5446 .....
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 <msg 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 <msg 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 <msg 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 <msg 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
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..@.@.8.....
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.....@.@.8.....
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....^....o..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....^....o..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.....o.
0x0040: 937a 270f b9ec 79eb 58e0 0dce 483e 5ad6 .z'...y.X...HbZ.
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.....o.
0x0040: 937a 270f b9ec 79eb 58e0 0dce 483e 5ad6 .z'...y.X...HbZ.
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

QUESTION 4

An LTM device is running BIG-IP v10.2.0 software. The LTM Specialist is tasked with upgrading the LTM device to BIG-IP v11.2.0 HF1. The LTM Specialist starts the upgrade process by selecting the uploaded Hotfix and installing to an unused volume. After 10 minutes, the LTM Specialist checks the status of the upgrade process and notices that the process is stalled at 0%.

What should the LTM Specialist verify?

- A. the selected volume has sufficient space available
- B. the base software version exists on the LTM device
- C. the LTM device has been restarted into maintenance mode
- D. the LTM device has an available Internet connection via the management interface

Correct Answer: B

QUESTION 5

An LTM device is monitoring pool members on port 80. The LTM device is using an HTTP monitor with a send string of GET / and a blank receive string. What would cause the pool members to be marked down?

- A. A pool member responds with an HTTP 200 series response code.
- B. A pool member responds with an HTTP 300 series response code.
- C. A pool member responds with an HTTP 400 series response code.
- D. A pool member responds with an HTTP 500 series response code.
- E. A pool member does NOT acknowledge the connection SYN on port 80.

Correct Answer: E

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