

# 301B<sup>Q&As</sup>

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

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## QUESTION 1

A user is having issues with connectivity to an HTTPS virtual server. The virtual server is on the LTM device's external vlan, and the pools associated with the virtual server are on the internal vlan. An LTM Specialist does a tcpdump on the external interface and notices that the host header is incomplete.

In which location should the LTM Specialist put a traffic analyzer to gather the most pertinent data?

- A. server
- B. external VLAN
- C. internal VLAN
- D. client machine

Correct Answer: D

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## QUESTION 2

A web developer has created a custom HTTP call to a backend application. The HTTP headers being sent by the HTTP call are:

```
GET / HTTP/1.1 User-Agent: MyCustomApp (v1.0) Accept: text/html Cache-Control: no-cache Connection: keep-alive
Cookie: somecookie=1
```

The backend server is responding with the following:

```
HTTP/1.1 400 Bad Request Date: Wed, 20 Jul 2012 17:22:41 GMT Connection: close
```

Why is the HTTP web server responding with a HTTP 400 Bad Request?

- A. The client request does NOT include a Host header.
- B. The User-Agent header contains an invalid character.
- C. The web server is NOT expecting a keep-alive connection.
- D. The web server is configured to accept HTTP 1.0 requests only.

Correct Answer: A

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## QUESTION 3

A customer needs to intercept all of the redirects its application is sending to clients. When a redirect is matched, the customer needs to log a message including the client IP address.

Which iRule should be used?

- A. when HTTP\_RESPONSE { if { [HTTP::is\_3xx] } { log local0. "redirecting client ip address [IP::addr [IP::remote\_addr]]"

```
}
```

```
}
```

```
B. when HTTP_REQUEST { if { [HTTP::is_301] } { log local0. "redirecting client ip address [IP::addr [IP::remote_addr]]"
```

```
}
```

```
}
```

```
C. when HTTP_REQUEST { if { [HTTP::is_redirect] } { log local0. "redirecting client ip address [IP::addr [IP::remote_addr]]"
```

```
}
```

```
}
```

```
D. when HTTP_RESPONSE { if { [HTTP::is_redirect] } { log local0. "redirecting client ip address [IP::addr [IP::remote_addr]]"
```

```
}
```

```
}
```

Correct Answer: D

---

#### QUESTION 4

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.)

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

Correct Answer: CD

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#### QUESTION 5

-- Exhibit

```
19:29:38.095440 IP 10.0.0.2.15885 > 10.0.0.1.http: S 233558736:233558736(0) win 8192 <ms 1416,nop,wscale 2,nop,nop,sackOK> in slot1/tmm1 lis=
0x0000: 0b71 0800 4500 0034 35b8 4000 7606 5844 .q.E..45.8.v.XD
0x0010: ac11 014e ac1d 1d4b 3e0d 0050 0deb d2d0 ..N...K>..P....
0x0020: 0000 0000 8002 2000 b961 0000 0204 0588 .....a.....
0x0030: 0103 0302 0101 0402 0105 0101 0001 00 .....
19:29:38.095485 IP 10.0.0.1.http > 10.0.0.2.15885: S 2486948624:2486948624(0) ack 233558737 win 4248 <ms 1460,nop,wscale 0,sackOK,eol> out slot1/tmm1 lis=/Common/test-vs
0x0000: 0b71 0800 4500 0034 a9d4 4000 ff06 5b27 .q.E..4..8...['
0x0010: ac1d 1d4b ac11 014e 0050 3e0d 943b d310 ..K...N.P>...
0x0020: 0deb d2d1 8012 1098 6243 0000 0204 05b4 .....bc.....
0x0030: 0103 0300 0402 0000 011c 0100 0001 172f ...../
0x0040: 436f 6d6d 6f6e 2f61 7263 682d 6263 6172 Common/test-vs

19:29:38.251761 IP 10.0.0.2.15885 > 10.0.0.1.http: . ack 1 win 16638 in slot1/tmm1 lis=/Common/test-vs
0x0000: 0b71 0800 4500 0028 35d9 4000 7706 572f .q.E..(5.8.w/W/
0x0010: ac11 014e ac1d 1d4b 3e0d 0050 0deb d2d1 ..N...K>..P....
0x0020: 943b d311 5010 40fe 71a7 0000 011c 0101 ..P.8.q.....
0x0030: 0001 172f 436f 6d6d 6f6e 2f61 7263 682d .../Common/arch-
0x0040: 6263 6172 642d 7465 7374 bcard-test

19:29:38.252723 IP 10.0.0.2.15885 > 10.0.0.1.http: P 1:426(425) ack 1 win 16638 in slot1/tmm1 lis=/Common/test-vs
0x0000: 0b71 0800 4500 01d1 35da 4000 7706 5585 .q.E...5.8.w.U.
0x0010: ac11 014e ac1d 1d4b 3e0d 0050 0deb d2d1 ..N...K>..P....
0x0020: 943b d311 5018 40fe 558e 0000 4745 5420 ;.P.8.U..GET.
0x0030: 2f42 4947 2d49 505f 4d6f 6475 6c65 5f49 /some-file-name.
0x0040: 7064 6620 4854 5450 2f31 2e31 0a0a 4163 pdf.HTTP/1.1.Ac
0x0050: 6365 7074 3a20 2a2f 2a0d 0a52 616e 6765 cept:*/*.Range
0x0060: 3a20 6278 7465 733d 3234 3537 3630 2d32 .bytes=245760-2
0x0070: 3632 3134 330d 0a41 6363 6570 742d 456e 62143..Accept-En
0x0080: 636f 6469 6e67 3a20 677a 6970 2c20 6465 coding;.gzip;.de
0x0090: 666c 6174 650d 0a55 7365 722d 4167 656e flate;.User-Agen
0x0100: 743a 204d 6f7a 696c 6c61 2f34 2e30 2028 t;.Mozilla/4.0.(
0x0110: 636f 6d70 6174 6962 6c65 3b20 4d53 4945 compatible;.MSIE
0x0120: 2038 2e30 3b20 5769 6e64 6f77 7320 4e54 .8.0;.Windows.NT
0x0130: 2036 2e31 3b20 574f 5736 343b 2054 7269 .6.1;.WOW64;.Tr1
0x0140: 6465 6e74 2f34 2e30 3b20 534c 4343 323b dent/4.0;.SLOC2;
0x0150: 202e 4e45 5420 434c 5220 322e 302e 3530 .NET.CLR.2.0.50
0x0160: 3732 373b 202e 4e45 5420 434c 5220 332e 727;.NET.CLR.3.
0x0170: 352e 3330 3732 393b 202e 4e45 5420 434c 5.30729;.NET.CL
0x0180: 5220 332e 302e 3330 3732 393b 204d 6564 R.3.0.30729;.Med
0x0190: 6961 2043 656e 7465 7220 5043 2036 2e30 ia.Center.PC.6.0
0x0200: 3b20 2e4e 4554 342e 3043 3b20 496e 666f ;.NET4.0C;.Info
0x0210: 5061 7468 2e33 3b20 2e4e 4554 342e 3045 Path.3;.NET4.0E
0x0220: 3b20 4d53 2d52 5443 204c 4d20 383b 2041 ;.MS-RTC.LM.8;.A
0x0230: 736b 5462 4f52 4a2f 352e 3135 2e31 2e32 skTbORJ/5.15.1.2
0x0240: 3232 3239 290d 0a45 6f73 743a 2031 3732 2229).Host:.10.
0x0250: 2e32 3239 2e37 350d 0a43 6f6e 6e65 0.0.1.....Conne
0x0260: 6374 696f 6e3a 204b 6565 702d 416c 6976 ction:.Keep-Alive
0x0270: 650d 0a0d 0a01 1c01 0100 0117 2f43 6f6d e...../Com
0x0280: 6d6f 6e2f 6172 6368 2d62 6361 7264 2d74 mon/test-vs

19:29:38.252761 IP 10.0.0.1.http > 10.0.0.2.15885: . ack 426 win 4673 out slot1/tmm1 lis=/Common/test-vs
0x0000: 0b71 0800 4500 0028 a9d8 4000 ff06 5b2f .q.E..(..8...[/
0x0010: ac1d 1d4b ac11 014e 0050 3e0d 943b d311 ..K...N.P>...
0x0020: 0deb d47a 5010 1241 9ebb 0000 011c 0100 ...zP..A.....
0x0030: 0001 172f 436f 6d6d 6f6e 2f61 7263 682d .../Common/test-vs

19:29:38.252774 IP 10.0.0.1.http > 10.0.0.2.15885: R 1:50(49) ack 426 win 4673 out slot1/tmm1 lis=/Common/test-vs
0x0000: 0b71 0800 4500 0059 a9da 4000 ff06 5a6c .q.E..Y..8...Z.
0x0010: ac1d 1d4b ac11 014e 0050 3e0d 943b d311 ..K...N.P>...
0x0020: 0deb d47a 5014 1241 8e5b 0000 4249 472d ...zP..A.[.BIG-
0x0030: 4950 3a20 5b30 7831 3430 3264 6334 3a31 IP:[0x1402dc4:1
0x0040: 3432 375d 204e 6220 706f 6f6c 206d 656d 427].No.pool.mem
0x0050: 6265 7220 6176 6169 6c61 626c 6501 1c01 ber.available...
0x0060: 0000 0117 2f43 6f6d 6d6f 6e2f 6172 6368 ..../Common/test-vs
```

-- Exhibit -Refer to the exhibit.

A user is unable to access an HTTP application via a virtual server.

What is the cause of the failure?

- A. The host header requires a host name.
- B. The virtual server is in the disabled state.
- C. The Connection: Keep-Alive header is set.
- D. There is no pool member available to service the request.

Correct Answer: D