



301B^{Q&As}

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

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QUESTION 1

The LTM device is configured to provide load balancing to a set of web servers that implement access control lists (ACL) based on the source IP address of the client. The ACL is at the network level and the web server is configured to send a TCP reset back to the client if it is NOT permitted to connect.

The virtual server is configured with the default OneConnect profile.

The ACL is defined on the web server as:

Permit: 192.168.136.0/24 Deny: 192.168.116.0/24

The packet capture is taken of two individual client flows to a virtual server with IP address 192.168.136.100.

Client A - Src IP 192.168.136.1 - Virtual Server 192.168.136.100:

Clientside:

```
09:35:11.073623 IP 192.168.136.1.55684 > 192.168.136.100.80: S 869998901:869998901(0) win 8192
09:35:11.073931 IP 192.168.136.100.80 > 192.168.136.1.55684: S 2273668949:2273668949(0) ack 869998902 win
4380 09:35:11.074928 IP 192.168.136.1.55684 > 192.168.136.100.80: . ack 1 win 16425 09:35:11.080936 IP
192.168.136.1.55684 > 192.168.136.100.80: P 1:299(298) ack 1 win 16425 09:35:11.081029 IP 192.168.136.100.80 >
192.168.136.1.55684: . ack 299 win 4678
```

Serverside:

```
09:35:11.081022 IP 192.168.136.1.55684 > 192.168.116.128.80: S 685865802:685865802(0) win 4380
09:35:11.081928 IP 192.168.116.128.80 > 192.168.136.1.55684: S 4193259095:4193259095(0) ack 685865803 win
5840 09:35:11.081943 IP 192.168.136.1.55684 > 192.168.116.128.80: . ack 1 win 4380 09:35:11.081955 IP
192.168.136.1.55684 > 192.168.116.128.80: P 1:299(298) ack 1 win 4380 09:35:11.083765 IP 192.168.116.128.80 >
192.168.136.1.55684: . ack 299 win 108
```

Client B - Src IP 192.168.116.1 - Virtual Server 192.168.136.100:

Clientside:

```
09:36:11.244040 IP 192.168.116.1.55769 > 192.168.136.100.80: S 3320618938:3320618938(0) win 8192
09:36:11.244152 IP 192.168.136.100.80 > 192.168.116.1.55769: S 3878120666:3878120666(0) ack 3320618939 win
4380 09:36:11.244839 IP 192.168.116.1.55769 > 192.168.136.100.80: . ack 1 win 16425 09:36:11.245830 IP
192.168.116.1.55769 > 192.168.136.100.80: P 1:299(298) ack 1 win 16425 09:36:11.245922 IP 192.168.136.100.80 >
192.168.116.1.55769: . ack 299 win 4678
```

Serverside:

```
09:36:11.245940 IP 192.168.136.1.55684 > 192.168.116.128.80: P 599:897(298) ack 4525 win 8904 09:36:11.247847
IP 192.168.116.128.80 > 192.168.136.1.55684: P 4525:5001(476) ack 897 win 142
```

Why was the second client flow permitted by the web server?

- A. A global SNAT is defined.
- B. SNAT automap was enabled on the virtual server.
- C. The idle TCP session from the first client was re-used.

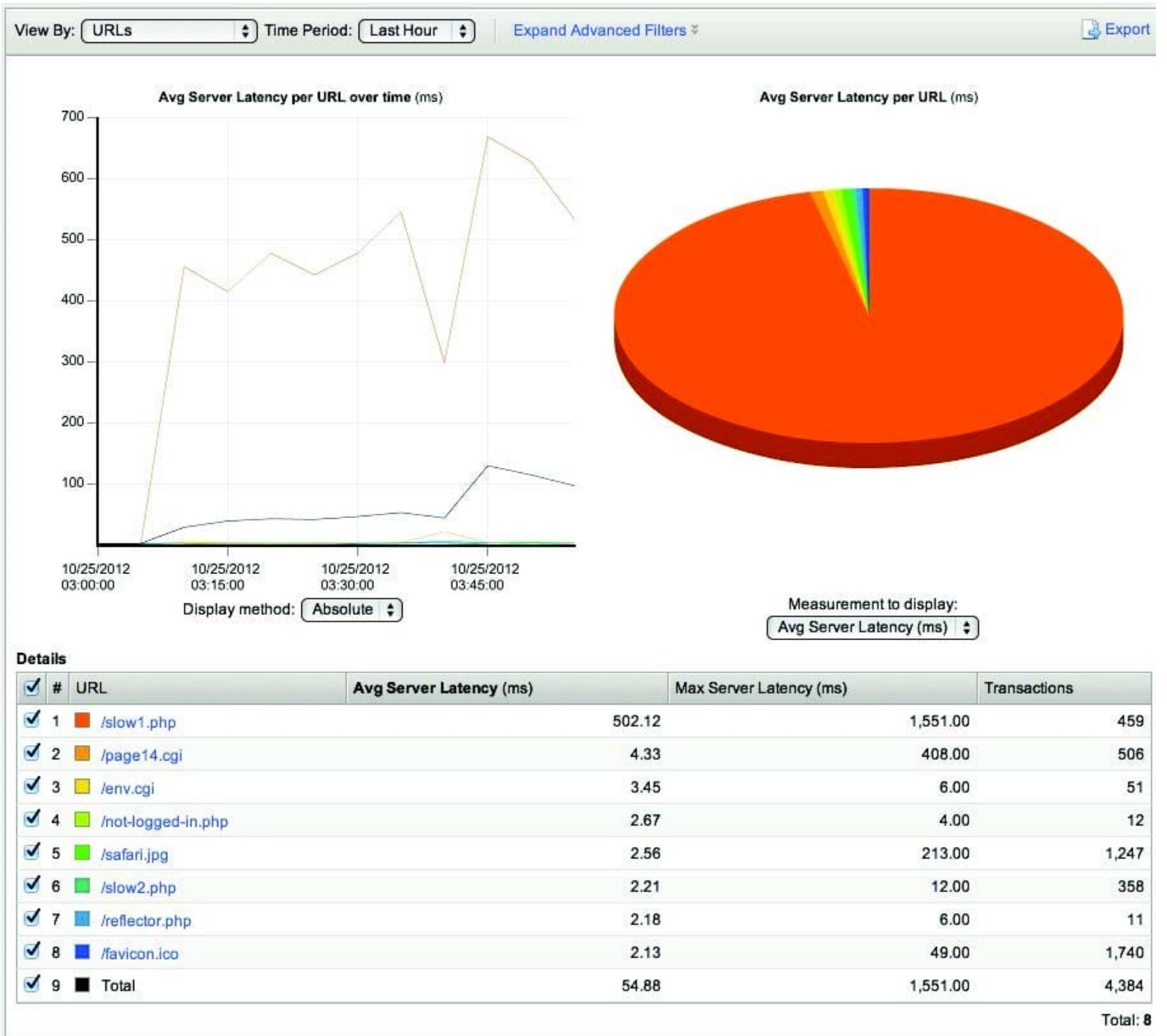


D. A source address persistence profile is assigned to the virtual server.

Correct Answer: C

QUESTION 2

-- Exhibit





-- Exhibit -Refer to the exhibits.

Which URL on which server is causing the highest latency for users?

- A. /slow1.php on 172.16.20.3
- B. /slow2.php on 172.16.20.1
- C. /reflector.php on 172.16.20.2
- D. /Compress.HTML on 172.16.20.1

Correct Answer: A

QUESTION 3

An LTM Specialist has set up a custom SNMP alert.

Which command line tool should the LTM Specialist use to test the alert?



- A. logger
- B. logtest
- C. testlog
- D. snmptest

Correct Answer: A

QUESTION 4

-- Exhibit

```
Client IP address: 10.0.0.1
Virtual Server: 11.0.0.1
Web Server: 12.0.0.1
```

Capture taken on Web server interface eth1:12.0.0.1

```
-----
01:35:35.141396 IP 10.0.0.1.35285 > 12.0.0.1.http: S 3230388980:3230388980(0) win 8192 <mss 1416,nop,wscale 8,nop,nop,sackOK>
01:35:35.141466 IP 12.0.0.1.http > 10.0.0.1.35285: S 2242263384:2242263384(0) ack 3230388981 win 5840 <mss 1460,nop,nop,sackOK,nop,wscale 4>
01:35:35.177621 IP 10.0.0.1.25079 > 12.0.0.1.http: P 3570570638:3570571021(383) ack 1931745822 win 255
01:35:35.184475 IP 12.0.0.1.http > 10.0.0.1.25079: . 1:1417(1416) ack 383 win 700
01:35:35.184517 IP 12.0.0.1.http > 10.0.0.1.25079: . 1417:2833(1416) ack 383 win 700
01:35:35.184533 IP 12.0.0.1.http > 10.0.0.1.25079: P 2833:3905(1072) ack 383 win 700
01:35:35.297647 IP 10.0.0.1.35285 > 12.0.0.1.http: . ack 1 win 66
01:35:35.337992 IP 10.0.0.1.25079 > 12.0.0.1.http: . ack 2833 win 259
01:35:35.539349 IP 10.0.0.1.25079 > 12.0.0.1.http: . ack 3905 win 255
01:35:38.945404 IP 12.0.0.1.http > 10.0.0.1.35285: S 2242263384:2242263384(0) ack 3230388981 win 5840 <mss 1460,nop,nop,sackOK,nop,wscale 4>
01:35:39.096377 IP 10.0.0.1.35285 > 12.0.0.1.http: . ack 1 win 66 <nop,nop,sack 1 {0:1}>
```

Capture taken on LTM interface 0.0

```
-----
17:32:30.828126 IP 10.0.0.1.10120 > 11.0.0.1.http: S 3414174673:3414174673(0) win 8192 <mss 1416,nop,wscale 2,nop,nop,sackOK> in slot1/tmm0 lis=
17:32:30.828172 IP 11.0.0.1.http > 10.0.0.1.10120: S 1751596785:1751596785(0) ack 3414174674 win 4248 <mss 1460,nop,wscale 0,sackOK,eol> out slot1/tmm0 lis=/Common/my_virtual
17:32:30.981787 IP 10.0.0.1.10120 > 11.0.0.1.http: . ack 1 win 16638 in slot1/tmm0 lis=/Common/my_virtual
17:32:30.982820 IP 10.0.0.1.10120 > 11.0.0.1.http: P 1:560(559) ack 1 win 16638 in slot1/tmm0 lis=/Common/my_virtual
17:32:30.982871 IP 10.0.0.1.10120 > 12.0.0.1.http: S 2896210787:2896210787(0) win 4380 <mss 1460,nop,wscale 0,sackOK,eol> out slot1/tmm0 lis=/Common/my_virtual
17:32:30.982875 IP 11.0.0.1.http > 10.0.0.1.10120: . ack 560 win 4807 out slot1/tmm0 lis=/Common/my_virtual
17:32:33.982895 IP 10.0.0.1.10120 > 12.0.0.1.http: S 2896210787:2896210787(0) win 4380 <mss 1460,nop,wscale 0,sackOK,eol> out slot1/tmm0 lis=/Common/my_virtual
17:32:37.182627 IP 10.0.0.1.10120 > 12.0.0.1.http: S 2896210787:2896210787(0) win 4380 <mss 1460,nop,wscale 0,sackOK,eol> out slot1/tmm0 lis=/Common/my_virtual
17:32:40.382728 IP 10.0.0.1.10120 > 12.0.0.1.http: S 2896210787:2896210787(0) win 4380 <mss 1460,sackOK,eol> out slot1/tmm0 lis=/Common/my_virtual
17:32:43.582864 IP 11.0.0.1.http > 10.0.0.1.10120: R 1:55(54) ack 560 win 4807 out slot1/tmm0 lis=/Common/my_virtual
```

-- Exhibit -

Refer to the exhibit.

A pair of LTM devices are configured for HA. The LTM Specialist observes from a capture that there is a successful connection from a client directly to a web server and an unsuccessful connection from a client via the LTM device to the same

web server.

Which two solutions will solve the configuration problem? (Choose two.)

- A. Configure SNAT on the pool.
- B. Configure SNAT on the virtual server.
- C. Change server default gateway to point at LTM internal self IP.
- D. Change server default gateway to point at LTM internal floating IP.

Correct Answer: BD

**QUESTION 5**

An LTM Specialist needs to rewrite text within an HTML response from a web server. A client is sending the HTTP request below:

```
GET / HTTP/1.1 Host: www.f5.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
```

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 HTTP header should the LTM Specialist remove from the request to ensure the content can be matched and modified?

- A. Connection
- B. Accept
- C. Cache-Control
- D. Accept-Encoding

Correct Answer: D

QUESTION 6

-- Exhibit



```
19:29:38.095440 IP 10.0.0.2.15885 > 10.0.0.1.http: S 233558736:233558736(0) win 8192 <msg 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 <msg 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 cding;.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;.NOW64;.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 5afo .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:[0x1402dc41
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

QUESTION 7

An LTM Specialist is troubleshooting an HTTP monitor. The pool member is accessible directly through a browser, but the HTTP monitor is marking the pool member as down.



GET / HTTP/1.1

HTTP/1.1 400 Bad Request DatE. Tue, 23 Oct 2012 21:39:07 GMT Server: Apache/2.2.22 (FreeBSD) PHP/5.4.4 mod_ssl/2.2.22 OpenSSL/0.9.8q DAV/2 Content-LengtH. 226 Connection: close Content-TypE. text/html; charset=iso-8859-1

How should the LTM Specialist resolve this issue?

- A. Add '\\200 OK\\' to the monitor\\s receive string.
- B. Add '\\Connection: close\\r\\n\\' to the monitor\\s send string.
- C. Change the interval on the monitor from 5 seconds to 30 seconds.
- D. Change the HTTP version in the send string from HTTP/1.1 to HTTP/1.0.

Correct Answer: D

QUESTION 8

-- 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 ..s.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 01e3 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 2E20 4854 5450 2f31 ...GET./HTTP/1
0x0040: 2e31 0d0a 486f 7374 3a20 7777 772e 6578 ..!.Host:www.ex
0x0050: 616d sm
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 ..t.
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 22d2 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 ..t.
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 0583 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 ..t.
```




```

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..@.@.....
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....^....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 9

The LTM Specialist is writing a custom HTTP monitor for a web application and has viewed the content by accessing the site directly via their browser. The monitor continually fails. The monitor configuration is:

```
ltm monitor http /Common/exampleComMonitor { defaults-from /Common/http destination *.* interval 5 recv "Recent Searches" send "GET /app/feed/current?uid=20145 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 }
```

A trace shows the following request and response:

Request: GET /app/feed/current?uid=20145 HTTP/1.1 Host www.example.com Accept-Encoding gzip, deflate
Connection: close

Response: HTTP/1.1 302 Moved Temporarily Date Wed, 17 Oct 2012 18:45:52 GMT Server Apache Location
<https://example.com/login.jsp> Content-Encoding gzip Content-Type text/html;charset=UTF-8 Set-Cookie:
JSESSIONID=261EFFBDA8EC3036FBCC22D991AC6835; Path=/app/feed/current?uid=20145 What is the problem?

- A. The request does NOT include a User-Agent header.
- B. The HTTP monitor does NOT support monitoring jsp pages.
- C. The request does NOT include any cookies and the application is expecting a session cookie.
- D. The request includes an Accept-Encoding so the server is responding with a gzipped result and LTM monitors CANNOT handle gzipped responses.

Correct Answer: C

QUESTION 10

There is a fault with an LTM device load balanced trading application that resides on directly connected VLAN vlan-301. The application virtual server is 10.0.0.1:80 with trading application backend servers on subnet 192.168.0.0/25. The LTM Specialist wants to save a packet capture with complete payload for external analysis.



Which command should the LTM Specialist execute on the LTM device command line interface?

- A. `tcpdump -vvv -w /var/tmp/trace.cap \\net 192.168.0.0/25\\`
- B. `tcpdump -vvv -s 0 -w /var/tmp/trace.cap \\net 192.168.0.0/25\\`
- C. `tcpdump -vvv -nni vlan-301 -w /var/tmp/trace.cap \\net 192.168.0.0/25\\`
- D. `tcpdump -vvv -s 0 -nni vlan-301 -w /var/tmp/trace.cap \\net 192.168.0.0/25\\`

Correct Answer: D

QUESTION 11

-- Exhibit

devices	<devgroup	[device	cid.id	cid.orig	cid.time	last_sync
11 48	Groupe-HA	bigipA.f5.com	2	bigipB.f5.com	12:39:19	: :
10	Groupe-HA	bigipA.f5.com	2	bigipB.f5.com	12:39:19	12:40:55
11	Groupe-HA	bigipB.f5.com	4	bigipB.f5.com	12:42:19	12:32:09
10 48	Groupe-HA	bigipB.f5.com	4	bigipB.f5.com	12:42:19	: :
10 11	Groupe-HA	bigipC.f5.com	2	bigipB.f5.com	12:39:19	: :
48	Groupe-HA	bigipC.f5.com	2	bigipB.f5.com	12:39:19	12:40:54

-- Exhibit -Refer to the exhibit.

An LTM Specialist is troubleshooting a sync-failover group of three BIG-IP LTM devices. The command used is "tmsh run cm watch-devicegroup-device."

What does the output mean?

- A. Configuration is synchronized between all the devices.
- B. Configuration is not synchronized. Some modifications have been done on bigipA.
- C. Configuration is not synchronized. Some modifications have been done on bigipB.
- D. Configuration is not synchronized. Some modifications have been done on bigipC.

Correct Answer: C

QUESTION 12

There are three servers in the pool: 172.16.20.1, 172.16.20.2, and 172.16.20.3, with the virtual IP address 10.0.20.88.

A user CANNOT connect to an HTTP application. To understand the problem and find a solution, the LTM Specialist runs two concurrent traces on the LTM device, with the following results:

Trace on client side:

tcpdump: verbose output suppressed, use -v or -vv for full protocol decode



listening on 0.0, link-type EN10MB (Ethernet), capture size 96 bytes

22:22:07.423759 IP 172.16.20.100.53875 > 10.0.20.88.80: S 998346084:998346084(0) win 5840

22:22:07.424056 IP 10.0.20.88.80 > 172.16.20.100.53875: S 4671780:4671780(0) ack 998346085 win 4380

22:22:07.424776 IP 172.16.20.100.53875 > 10.0.20.88.80: . ack 1 win 365

22:22:07.424790 IP 172.16.20.100.53875 > 10.0.20.88.80: P 1:149(148) ack 1 win 365

22:22:07.424891 IP 10.0.20.88.80 > 172.16.20.100.53875: . ack 149 win 4528

22:22:12.024850 IP 10.0.20.88.80 > 172.16.20.100.53875: R 1:1(0) ack 149 win 4528

6 packets captured

6 packets received by filter

0 packets dropped by kernel

Trace on server side:

tcpdump: verbose output suppressed, use -v or -vv for full protocol decode

listening on internal, link-type EN10MB (Ethernet), capture size 96 bytes

22:22:07.424881 IP 172.16.20.100.53875 > 172.16.20.2.80: S 51116678:51116678(0) win 4380

22:22:08.424893 IP 172.16.20.100.53875 > 172.16.20.2.80: S 51116678:51116678(0) win 4380

22:22:09.625082 IP 172.16.20.100.53875 > 172.16.20.2.80: S 51116678:51116678(0) win 4380

22:22:10.825194 IP 172.16.20.100.53875 > 172.16.20.2.80: S 51116678:51116678(0) win 4380

4 packets captured

4 packets received by filter

0 packets dropped by kernel

What should the LTM Specialist do to solve the problem?

- A. Edit the packet filter rules.
- B. Modify the monitor of the pool.
- C. Enable the virtual server.
- D. Configure the virtual server to use SNAT.

Correct Answer: D

QUESTION 13

Which iRule will reject any connection originating from a 10.0.0.0/8 network?



A. when CLIENT_ACCEPTED { set remote_ip [IP::addr [IP::remote_addr] mask 8] switch \$remote_ip {
"10.0.0.0" { reject }
"11.0.0.0" { pool pool_http1}
default { pool http_pool }
}
}

B. when CLIENT_ACCEPTED { set remote_ip [IP::addr [IP::local_addr] mask 8] switch \$remote_ip { "10.0.0.0" { reject }
"11.0.0.0" { pool pool_http1} default { pool http_pool }
}
}

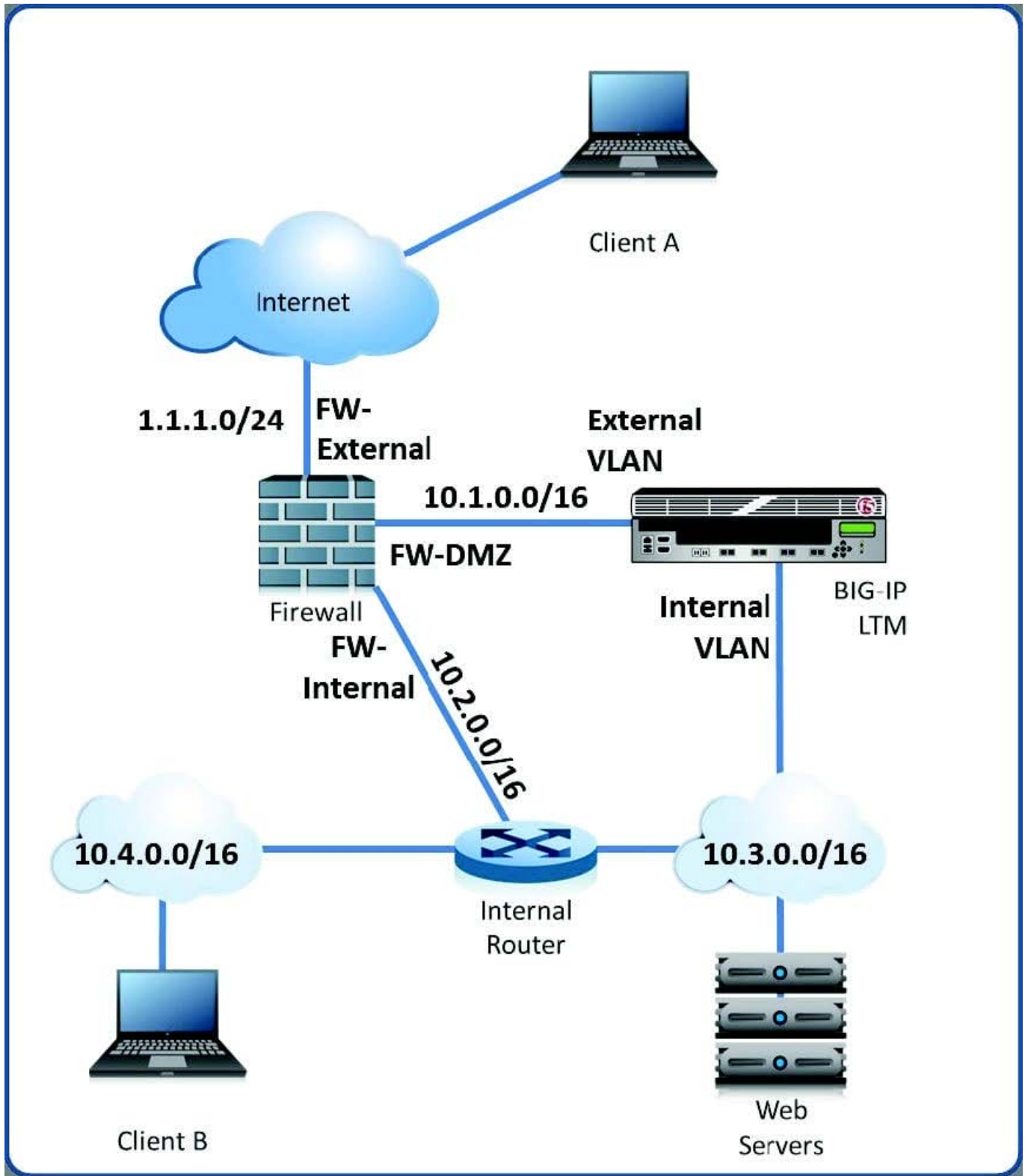
C. when CLIENT_ACCEPTED { set remote_ip [IP::addr [IP::client_addr] mask 255.0.0.0] switch \$remote_ip { "10.0.0.0"
{ reject } "11.0.0.0" { pool pool_http1} default { pool http_pool }
}
}

D. when CLIENT_ACCEPTED { set remote_ip [IP::addr [IP::local_addr] mask 255.0.0.0] switch \$remote_ip { "10.0.0.0" {
reject } "11.0.0.0" { pool pool_http1} default { pool http_pool }
}
}

Correct Answer: C

QUESTION 14

-- 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.)

- 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

Correct Answer: AC

QUESTION 15

An LTM Specialist must perform a hot fix installation from the command line.

What is the correct procedure to ensure that the installation is successful?

- A. import the hot fix to the /var/shared/images directory check the integrity of the file with an md5 checksum tmsh apply sys software hotfix volume .iso
- B. import the hot fix to the /var/shared/images directory check the integrity of the file with an md5 checksum tmsh install sys software hotfix .iso volume
- C. import the hot fix to the /shared/images directory check the integrity of the file with an md5 checksum tmsh apply sys software hotfix volume .iso
- D. import the hot fix to the /shared/images directory check the integrity of the file with an md5 checksum tmsh install sys software hotfix .iso volume

Correct Answer: D

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