

301B^{Q&As}

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

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QUESTION 1

-- Exhibit

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
```

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>
09:46:03.430041 IP 192.168.1.1.31214 > 192.168.10.80.8443: . ack 1 win 4380
09:46:03.463946 IP 192.168.1.1.31214 > 192.168.10.80.8443: P 1:137(136) ack 1 win 4380
09:46:03.465072 IP 192.168.10.80.8443 > 192.168.1.1.31214: . ack 137 win 864
09:46:03.466127 IP 192.168.10.80.8443 > 192.168.1.1.31214: P 1:139(138) ack 137 win 864
09:46:03.466150 IP 192.168.1.1.31214 > 192.168.10.80.8443: . ack 139 win 4518
09:46:03.720163 IP 192.168.1.1.31214 > 192.168.10.80.8443: P 137:196(59) ack 139 win 4518
09:46:03.720183 IP 192.168.1.1.31214 > 192.168.10.80.8443: P 196:542(346) ack 139 win 4518
09:46:03.721853 IP 192.168.10.80.8443 > 192.168.1.1.31214: . ack 542 win 998
09:46:03.723009 IP 192.168.10.80.8443 > 192.168.1.1.31214: . 139:1599(1460) 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: P 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
```

Trace direct to application server

Started	Time Chart	Time	Sent	Received	Method	Result	Type	URL
00:00:00.000	This page (index.html) is from Server 1							
+0.000		9.140	278	2480	GET	200	http://srv1.example.com/	
+9.144		9.134	336	5079	GET	200	http://srv1.example.com/header.gif	
+9.146		9.266	334	19307	GET	200	http://srv1.example.com/left.gif	
+9.147		9.232	335	14644	GET	200	http://srv1.example.com/right.gif	
+9.149		9.189	336	4192	GET	200	http://srv1.example.com/footer.jpg	
		9.186	18.414	18.412	1619	45702	5 requests	

Trace through LTM device

Started	Time Chart	Time	Sent	Received	Method	Result	Type	URL
00:00:00.000	This page (index.html) is from SSL Server 1							
+0.000		0.428	346	2650	GET	200	https://www.example.com/	
+0.435		9.110	300	0	GET	ERROR_INTERNET_CONNECTION_ABORTED	http://www.example.com/header.gif	
+0.435		9.322	298	0	GET	ERROR_INTERNET_CONNECTION_ABORTED	http://www.example.com/left.gif	
+0.435		9.322	299	0	GET	ERROR_INTERNET_CONNECTION_ABORTED	http://www.example.com/right.gif	
+0.435		9.322	300	0	GET	ERROR_INTERNET_CONNECTION_ABORTED	http://www.example.com/footer.jpg	
		0.452	9.759	9.757	1543	2650	5 requests	

```
ltm virtual VS_HTTP {
  destination 10.10.17.100:http
  ip-protocol tcp
  mask 255.255.255.255
  pool Pool_HTTP
  profiles {
    customHTTP { }
    tcp { }
  }
  vlans-disabled
}
ltm pool Pool_HTTP {
  members {
    172.16.20.1:http {
      address 172.16.20.1
    }
  }
}
ltm profile http customHTTP {
  app-service none
  defaults-from http
  encrypt-cookies none
  fallback-host none
  fallback-status-codes none
  header-erase Host
  header-insert none
  insert-forwarded-for disabled
  lws-separator none
  lws-width 80
  max-header-count 64
  max-header-size 32768
  max-requests 0
  oneconnect-transformations enabled
  pipelining enabled
  redirect-rewrite none
  request-chunking preserve
  response-chunking selective
  response-headers-permitted none
  security disabled
  via-request preserve
  via-response preserve
}
```

```
ltm virtual VS_HTTP {
  destination 10.10.17.100:http
  ip-protocol tcp
  mask 255.255.255.255
  pool Pool_HTTP
  profiles {
    http { }
    tcp { }
  }
  snat automap
  vlans-disabled
}
ltm pool Pool_HTTP {
  members {
    172.16.20.1:http {
      address 172.16.20.1
    }
    172.16.20.2:http {
      address 172.16.20.2
    }
    172.16.20.3:http {
      address 172.16.20.3
    }
  }
}
```

-- Exhibit -Refer to the exhibits.

An LTM Specialist is troubleshooting an application configured on an LTM device on a one-armed configuration. The application is NOT working through the LTM device but does work when accessed directly via the application servers. The

virtual server 192.168.1.211:443 is configured to SNAT using the address 192.168.1.144 and references a pool with the member 192.168.10.80:443. No Client or Server SSL profiles are associated. The LTM Specialist has collected two

captures to help determine the issue.

What is the problem with the configuration on the LTM device?

- A. Pool member is configured to use wrong port.
- B. Pool member is configured for SSL off-loading.
- C. Virtual server is configured to use wrong port.
- D. Virtual server is configured without SSL Profiles.

Correct Answer: A

QUESTION 2

An LTM Specialist is troubleshooting an issue with a new virtual server. When connecting through the virtual server, clients receive the message "Unable to connect" in the browser, although connections directly to the pool member show the

application is functioning correctly.

The LTM configuration is:

```
ltm virtual /Common/vs_https {
  destination /Common/10.10.1.110:443
  ip-protocol udp
  mask 255.255.255.255
  pool /Common/pool_https
  profiles {
    /Common/udp { }
  }
  translate-address enabled
  translate-port enabled
  vlans-disabled
}
ltm pool /Common/pool_https {
  members {
    /Common/172.16.20.1:443 {
      address 172.16.20.1
    }
  }
}
```

How should the LTM Specialist resolve this issue?

- A. Remove an HTTP monitor from the pool.
- B. Add an HTTP profile to the virtual server.
- C. Enable the pool member on the correct VLAN.
- D. Select the correct protocol for the virtual server.

Correct Answer: D

QUESTION 3

-- Exhibit

```
GET / HTTP/1.1
Host: www.example.com
User-Agent: Mozilla/5.0 (Windows NT 6.1; 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
DNT: 1
Connection: keep-alive
```

```
HTTP/1.1 302 Moved Temporarily
Content-Length: 0
Location: https://www.example.com
Date: Tue, 23 Oct 2012 18:05:57 GMT
Server: Apache/2.2.22 (FreeBSD) PHP/5.4.4 mod_ssl/2.2.22 OpenSSL/0.9.8q DAV/2
Accept-Ranges: bytes
Connection: Keep-Alive
Content-Type: text/html
Set-Cookie: sessionid=a4531785-7012-46aa-b5fe-a54be482b61a; path=/
```

-- Exhibit -Refer to the exhibit.

An LTM Specialist is performing an HTTP trace on the client side of the LTM device and notices there are many undesired headers being sent by the server in the response. The LTM Specialist wants to remove all response headers except

"Set-Cookie" and "Location."

How should the LTM Specialist modify the HTTP profile to remove undesired headers from the HTTP response?

- A. Enter the desired header names in the '\\Request Header Insert\\' field.
- B. Enter the undesired header names in the '\\Request Header Erase\\' field.
- C. Enter the undesired header names in the '\\Response Header Erase\\' field.
- D. Enter the desired header names in the '\\Response Headers Allowed\\' field.

Correct Answer: D

QUESTION 4

A high-availability (HA) pair configuration uses only the hardwire serial cable connection to determine device state. A power outage occurs to the PDU powering the active unit. The standby unit takes over the active role as expected.

How is the peer unit able to determine the active unit is unavailable?

- A. voltage loss on serial cable

- B. no data stream received on serial port
- C. no response on management interface
- D. no heartbeat packets received on self IPs

Correct Answer: A

QUESTION 5

-- Exhibit

Monitor definition:

```
ltm monitor http test2 {
    defaults-from http
    destination *:*
    interval 5
    recv "200 OK"
    send "GET /webmail HTTP/1.1\r\nHost: webmail.example.com\r\nConnection: close\r\n\r\n"
    time-until-up 0
    timeout 16
}
```

HTTP Headers from tcpdump:

```
GET /webmail HTTP/1.1
Host: webmail.example.com
Connection: close

HTTP/1.1 301 Moved Permanently
Date: Tue, 16 Oct 2012 20:23:22 GMT
Server: Apache/2.2.3 (CentOS)
Location: http://webmail.example.com/webmail/
Content-Length: 327
Connection: close
```

-- Exhibit -Refer to the exhibit.

An HTTP monitor always marks the nodes in the pool as down. The monitor's definition and the HTTP headers from the monitor request and response are provided.

What is the issue?

- A. The response is compressed.
- B. The send string is incorrect.
- C. The monitor timeout is too short.
- D. The monitor is NOT configured to follow the redirect.

Correct Answer: B

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