Vendor:F5

Exam Code:301B

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

Version: Demo

QUESTION 1

An LTM Specialist configures the following iRule on an LTM device: when HTTP_REQUEST { if {[string tolower [HTTP::uri]] contains "/URI1/" } { pool Pool1 } elseif {[string tolower [HTTP::uri]] contains "/URI2/" } { pool Pool2 } elseif {[string tolower [HTTP::uri]] contains "/URI3/" } { pool Pool3 }

else { pool Pool4} } Given the following request: http://www.example.comURI1/index.html?fu=barandpass=1234

Which pool will be selected by the iRule?

A. Pool1

B. Pool2

C. Pool3

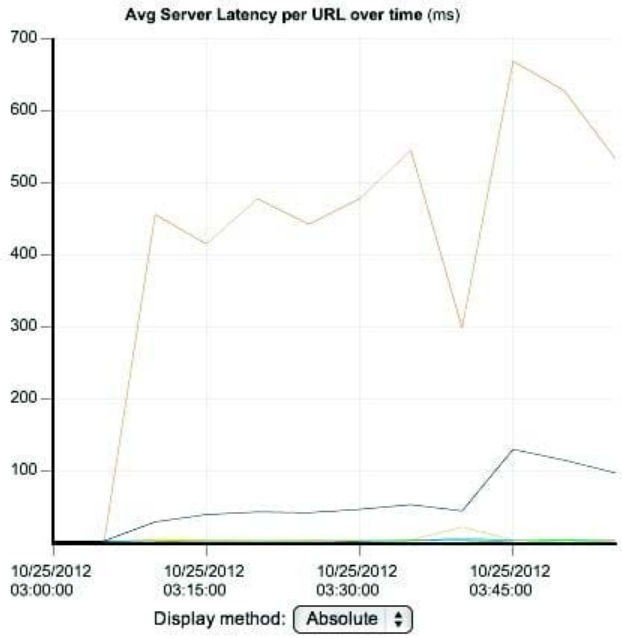
D. Pool4

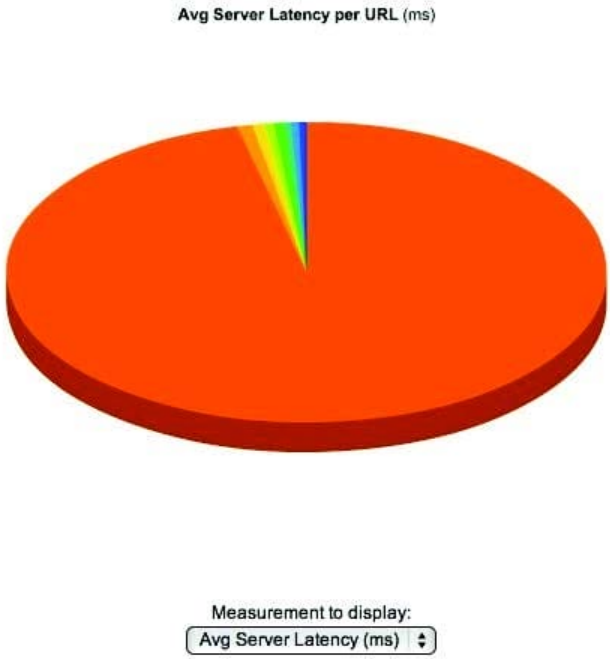
Correct Answer: D

QUESTION 2

-- Exhibit

View By: URLs | Time Period: Last Hour | Expand Advanced Filters | Export





Details

#	URL	Avg Server Latency (ms)	Max Server Latency (ms)	Transactions
1	/slow1.php	502.12	1,551.00	459
2	/page14.cgi	4.33	408.00	506
3	/env.cgi	3.45	6.00	51
4	/not-logged-in.php	2.67	4.00	12
5	/safari.jpg	2.56	213.00	1,247
6	/slow2.php	2.21	12.00	358
7	/reflector.php	2.18	6.00	11
8	/favicon.ico	2.13	49.00	1,740
9	Total	54.88	1,551.00	4,384

Total: **8**

-- 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

-- Exhibit

```
18:25:47.356188 IP 192.168.1.100.55596 > 192.168.1.155.8080: S 365083520:365083520(0) win 8192 <mss 1260,nop,wscale 2,nop,nop,sackOK> in slot1/tmm0 lis=
....E..4cE@..../...d.....,.............. ........................
18:25:47.356218 IP 192.168.1.155.8080 > 192.168.1.100.55596: S 2357781217:2357781217(0) ack 365083521 win 3780 <mss 1460,nop,wscale 0,sackOK,eol> out slot1/tmm0 lis=/test/http_custom_redirect_vs
....E..4.O@....#.......d...,..............................."....../test/http_custom_redirect_vs
18:25:47.357679 IP 192.168.1.100.55596 > 192.168.1.155.8080: . ack 1 win 16695 in slot1/tmm0 lis=/test/http_custom_redirect_vs
....E..(cF@....:...d.....,..........P.A7....."....../test/http_custom_redirect_vs
18:25:47.365725 IP 192.168.1.100.55596 > 192.168.1.155.8080: P 1:294(293) ack 1 win 16695 in slot1/tmm0 lis=/test/http_custom_redirect_vs
....E..McG@........d.....,..........P.A7\
..GET / HTTP/1.1
Host: 192.168.1.155:8080
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

."....../test/http_custom_redirect_vs
18:25:47.365805 IP 192.168.1.155.8080 > 192.168.1.100.55596: P 1:105(104) ack 294 win 3780 out slot1/tmm0 lis=/test/http_custom_redirect_vs
....E....S@.............d...,........P.......HTTP/1.0 302 Found
Location: https://192.168.1.155:8080/
Connection: Keep-Alive
Content-Length: 0

."....../test/http_custom_redirect_vs
18:25:47.382739 IP 192.168.1.100.55597 > 192.168.1.155.8080: S 2429178084:2429178084(0) win 8192 <mss 1260,nop,wscale 2,nop,nop,sackOK> in slot1/tmm0 lis=
....E..4cH@..../...d.....-....P....... ..!.....................
18:25:47.382752 IP 192.168.1.155.8080 > 192.168.1.100.55597: S 197089061:197089061(0) ack 2429178085 win 3780 <mss 1460,nop,wscale 0,sackOK,eol> out slot1/tmm0 lis=/test/http_custom_redirect_vs
....E..4.V@.............d...-..W%..P........................."....../test/http_custom_redirect_vs
18:25:47.384086 IP 192.168.1.100.55597 > 192.168.1.155.8080: . ack 1 win 16695 in slot1/tmm0 lis=/test/http_custom_redirect_vs
....E..(cI@....7...d.....-....P...W&P.A7....."....../test/http_custom_redirect_vs
18:25:47.384092 IP 192.168.1.100.55597 > 192.168.1.155.8080: P 1:89(88) ack 1 win 16695 in slot1/tmm0 lis=/test/http_custom_redirect_vs
....E...cJ@.........d.....-....P...W&P.A7qN......S...O..P.......x...z&u....i..!K..[v...7..(........9.8...5.E.D.3.2...A...../.......
..."....../test/http_custom_redirect_vs
18:25:47.384106 IP 192.168.1.155.8080 > 192.168.1.100.55597: . ack 89 win 3868 out slot1/tmm0 lis=/test/http_custom_redirect_vs
....E..(.Z@....$.......d...-..W&..Q=P........"....../test/http_custom_redirect_vs
18:25:47.571574 IP 192.168.1.100.55596 > 192.168.1.155.8080: . ack 105 win 16669 in slot1/tmm0 lis=/test/http_custom_redirect_vs
....E..(cX@....(...d.....,.........JP.A..n..."....../test/http_custom_redirect_vs
18:27:42.414390 IP 192.168.1.100.55596 > 192.168.1.155.8080: F 294:294(0) ack 105 win 16669 in slot1/tmm0 lis=/test/http_custom_redirect_vs
....E..(h}@.........d.....,.........JP.A..m..."....../test/http_custom_redirect_vs
18:27:42.414425 IP 192.168.1.155.8080 > 192.168.1.100.55596: . ack 295 win 4073 out slot1/tmm0 lis=/test/http_custom_redirect_vs
....E..(..@.............d...,...J....P........"....../test/http_custom_redirect_vs
18:27:42.414431 IP 192.168.1.155.8080 > 192.168.1.100.55596: F 105:105(0) ack 295 win 4073 out slot1/tmm0 lis=/test/http_custom_redirect_vs
....E..(..@....~.......d...,...J....P........"....../test/http_custom_redirect_vs
18:27:42.415916 IP 192.168.1.100.55596 > 192.168.1.155.8080: . ack 106 win 16669 in slot1/tmm0 lis=/test/http_custom_redirect_vs
....E..(h~@.........d.....,.........KP.A..l..."....../test/http_custom_redirect_vs
```

```
ltm profile httpclass /test/http_custom_redirect {
    app-service none
    defaults-from httpclass
    pool none
    redirect https://[HTTP::host][HTTP::uri]
}
ltm pool eCommerce_https_pool {
    members {
        10.1.1.1:https {
            address 10.1.1.1
        }
    }
    partition test
}
ltm virtual /test/http_custom_redirect_vs {
    destination 192.168.1.155:8080
    http-class {
        /test/http_custom_redirect
    }
    ip-protocol tcp
    mask 255.255.255.255
    partition test
    profiles {
        http { }
        tcp { }
    }
    vlans-disabled
}
ltm virtual https_vs {
    destination /Common/192.168.1.155:https
    ip-protocol tcp
    mask 255.255.255.255
    partition test
    pool eCommerce_https_pool
    profiles {
        /Common/example.com {
            context clientside
        }
        /Common/serverssl-insecure-compatible {
            context serverside
        }
        /Common/tcp { }
    }
    snat automap
    vlans-disabled
}
```

-- Exhibit -

Refer to the exhibits.

An LTM Specialist is reconfiguring a virtual server to redirect all clients to HTTPS. Testing reveals that the redirect is

functioning incorrectly. As part of the troubleshooting process, the LTM Specialist performs a packet capture.

What is the issue?

A. The redirect is causing an infinite loop.

B. The virtual server is missing a clientssl profile.

C. The redirect is sending the client to the incorrect location.

D. The virtual server is incorrectly processing the HTTP request.

Correct Answer: C

QUESTION 4

An HTTP 1.1 application utilizes chunking.

Which header should be used to notify the client\\'s browser that there are additional HTTP headers at the end of the message?

A. ETag

B. From

C. Trailer

D. Expect

Correct Answer: C

QUESTION 5

An LTM Specialist is customizing local traffic logging.

Which traffic management OS alert level provides the most detail?

A. Alert

B. Notice

C. Critical

D. Emergency

E. Informational

Correct Answer: E

QUESTION 6

-- Exhibit -

```
New TCP connection #3: 172.16.1.20(49379) <-> 172.16.20.1(443)
3 1  0.0006 (0.0006)  C>S  Handshake
      ClientHello
        Version 3.1
        cipher suites
        TLS_RSA_WITH_RC4_128_SHA
        TLS_RSA_WITH_AES_128_CBC_SHA
        TLS_RSA_WITH_AES_256_CBC_SHA
        TLS_RSA_WITH_3DES_EDE_CBC_SHA
        Unknown value 0x3c
        Unknown value 0x3d
        Unknown value 0xff
        compression methods
                  NULL
3 2  0.0009 (0.0002)  S>C  Handshake
      ServerHello
        Version 3.1
        session_id[32]=
          ed 15 16 5f c2 9d bf 5e e6 70 0e a4 86 59 bf 27
          e7 b5 fa 49 38 fd 24 d7 c3 1e c1 9f d2 67 e4 f7
        cipherSuite         TLS_RSA_WITH_RC4_128_SHA
        compressionMethod                   NULL
3 3  0.0009 (0.0000)  S>C  Handshake
      Certificate
3 4  0.0009 (0.0000)  S>C  Handshake
      ServerHelloDone
New TCP connection #4: 172.16.1.20(49380) <-> 172.16.20.1(443)
4 1  0.0004 (0.0004)  C>S  Handshake
      ClientHello
        Version 3.1
        cipher suites
        TLS_RSA_WITH_RC4_128_SHA
        TLS_RSA_WITH_AES_128_CBC_SHA
        TLS_RSA_WITH_AES_256_CBC_SHA
        TLS_RSA_WITH_3DES_EDE_CBC_SHA
        Unknown value 0x3c
        Unknown value 0x3d
        Unknown value 0xff
        compression methods
                  NULL
4 2  0.0007 (0.0002)  S>C  Handshake
      ServerHello
        Version 3.1
        session_id[32]=
          f5 eb fe e9 8e fc e9 7f c5 13 1b 40 69 15 08 72
          95 ef 43 e5 4e 10 f4 3b b2 3e 5c ec 5e ee 66 a8
        cipherSuite         TLS_RSA_WITH_RC4_128_SHA
        compressionMethod                   NULL
4 3  0.0007 (0.0000)  S>C  Handshake
      Certificate
4 4  0.0007 (0.0000)  S>C  Handshake
      ServerHelloDone
3    0.0015 (0.0006)  C>S  TCP RST
4    0.0010 (0.0003)  C>S  TCP RST
```

-- Exhibit -Refer to the exhibit. A company uses a complex piece of client software that connects to one or more virtual servers (VS) hosted on an LTM device. The client software is experiencing issues. An LTM Specialist must determine the cause of the problem. The LTM

Specialist has the tcpdump extract. The client loses connection with the LTM device. Where is the reset originating?

A. the local switch

B. the application server

C. the device initiating the connection D. the destination device of the initial connection

Correct Answer: C

QUESTION 7

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

QUESTION 8

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 9

An LTM Specialist realizes that a datacenter engineer has changed the console baud rate. Which command determines the current baud rate via the command line interface?

A. tmsh show /ltm console

B. tmsh show /sys console

C. tmsh list /sys baud-rate

D. tmsh list /net baud-rate

Correct Answer: B

QUESTION 10

Given this as the first packet displayed of an ssldump:

2 2 1296947622.6313 (0.0001) S>CV3.1(74) Handshake

ServerHello

Version 3.1

random[32]=

19 21 d7 55 c1 14 65 63 54 23 62 b7 c4 30 a2 f0

b8 c4 20 06 86 ed 9c 1f 9e 46 0f 42 79 45 8a 29

session_id[32]=

c4 44 ea 86 e2 ba f5 40 4b 44 b4 c2 3a d8 b4 ad

4c dc 13 0d 6c 48 f2 70 19 c3 05 f4 06 e5 ab a9

cipherSuite TLS_RSA_WITH_RC4_128_SHA

compressionMethod NULL

In reviewing the rest of the ssldump, the application data is NOT being decrypted.

Why is ssldump failing to decrypt the application data?

A. The application data is encrypted with SSLv3.

B. The application data is encrypted with TLSv1.

C. The data is contained within a resumed TLS session.

D. The BigDB Key Log.Tcpdump.Level needs to be adjusted.

Correct Answer: C

QUESTION 11

-- 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 12

Which two subsystems could the LTM Specialist utilize to access an LTM device with lost management interface connectivity? (Choose two.)

A. AOM

B. ILO

C. SCCP

D. ALOM

Correct Answer: AC