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

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QUESTION 1

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-Cnection: 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 2

Which two alerting capabilities can be enabled from within an application visibility reporting (AVR) analytics profile? (Choose two.)

A. sFlow

B. SNMP

C. e-mail

D. LCD panel alert

E. high speed logging (HSL)

Correct Answer: BC

QUESTION 3

-- Exhibit

```
13:20:26.194324 IP 10.10.1.1.42923 > 172.16.20.2.ftp: S 1642091015:1642091015(0) win 4380 <mss 1460,nop,wscale 0,nop,nop,timestamp 2403895569 0,sackOK,eol>
13:20:26.196505 IP 172.16.20.2.ftp > 10.10.1.1.42923: S 3574712268:3574712268(0) ack 1642091016 win 5792 <mss 1460,sackOK,timestamp 9643612 2403895569,nop,wscale 3>
13:20:26.196514 IP 10.10.1.1.42923 > 172.16.20.2.ftp: . ack 1 win 4380 <nop,nop,timestamp 2403895573 9643612>
13:20:26.199257 IP 172.16.20.2.ftp > 10.10.1.1.42923: P 1:21(20) ack 1 win 724 <nop,nop,timestamp 9643615 2403895573>
13:20:26.199274 IP 10.10.1.1.42923 > 172.16.20.2.ftp: . ack 21 win 4400 <nop,nop,timestamp 2403895575 9643615>
13:20:28.436817 IP 10.10.1.1.42923 > 172.16.20.2.ftp: P 1:15(14) ack 21 win 4400 <nop,nop,timestamp 2403897813 9643615>
13:20:28.438230 IP 172.16.20.2.ftp > 10.10.1.1.42923: . ack 15 win 724 <nop,nop,timestamp 9645855 2403897813>
13:20:28.438234 IP 172.16.20.2.ftp > 10.10.1.1.42923: P 21:55(34) ack 15 win 724 <nop,nop,timestamp 9645855 2403897813>
13:20:28.438251 IP 10.10.1.1.42923 > 172.16.20.2.ftp: . ack 55 win 4434 <nop,nop,timestamp 2403897814 9645855>
13:20:30.860614 IP 10.10.1.1.42923 > 172.16.20.2.ftp: P 15:29(14) ack 55 win 4434 <nop,nop,timestamp 2403900237 9645855>
13:20:30.901297 IP 172.16.20.2.ftp > 10.10.1.1.42923: . ack 29 win 724 <nop,nop,timestamp 9648319 2403900237>
13:20:40.864453 IP 10.10.1.1.42923 > 172.16.20.2.ftp: P 55:78(23) ack 29 win 724 <nop,nop,timestamp 9658281 2403900237>
13:20:40.864522 IP 10.10.1.1.42923 > 172.16.20.2.ftp: . ack 78 win 4457 <nop,nop,timestamp 2403910241 9658281>
13:20:40.865948 IP 10.10.1.1.42923 > 172.16.20.2.ftp: P 29:35(6) ack 78 win 4457 <nop,nop,timestamp 2403910242 9658281>
13:20:40.867799 IP 172.16.20.2.ftp > 10.10.1.1.42923: . ack 35 win 724 <nop,nop,timestamp 9658284 2403910242>
13:20:40.867803 IP 172.16.20.2.ftp > 10.10.1.1.42923: P 78:97(19) ack 35 win 724 <nop,nop,timestamp 9658284 2403910242>
13:20:40.867816 IP 10.10.1.1.42923 > 172.16.20.2.ftp: . ack 97 win 4476 <nop,nop,timestamp 2403910244 9658284>
13:20:47.199810 IP 10.10.1.1.42923 > 172.16.20.2.ftp: P 35:43(8) ack 97 win 4476 <nop,nop,timestamp 2403916576 9658284>
13:20:47.201215 IP 172.16.20.2.ftp > 10.10.1.1.42923: P 97:128(31) ack 43 win 724 <nop,nop,timestamp 9664618 2403916576>
13:20:47.201233 IP 10.10.1.1.42923 > 172.16.20.2.ftp: . ack 128 win 4507 <nop,nop,timestamp 2403916577 9664618>
13:20:47.202263 IP 10.10.1.1.42923 > 172.16.20.2.ftp: P 43:67(24) ack 128 win 4507 <nop,nop,timestamp 2403916578 9664618>
13:20:47.203810 IP 172.16.20.2.ftp > 10.10.1.1.42923: P 128:179(51) ack 67 win 724 <nop,nop,timestamp 9664620 2403916578>
13:20:47.203822 IP 10.10.1.1.42923 > 172.16.20.2.ftp: . ack 179 win 4558 <nop,nop,timestamp 2403916580 9664620>
13:20:47.205035 IP 10.10.1.1.42923 > 172.16.20.2.ftp: P 67:82(15) ack 179 win 4558 <nop,nop,timestamp 2403916581 9664620>
13:20:47.206441 IP 172.16.20.2.ftp-data > 10.10.1.1.38030: S 3599538288:3599538288(0) win 5840 <mss 1460,sackOK,timestamp 9664623 0,nop,wscale 3>
13:20:47.245894 IP 172.16.20.2.ftp > 10.10.1.1.42923: . ack 82 win 724 <nop,nop,timestamp 9664663 2403916581>
13:20:50.205908 IP 172.16.20.2.ftp-data > 10.10.1.1.38030: S 3599538288:3599538288(0) win 5840 <mss 1460,sackOK,timestamp 9667623 0,nop,wscale 3>
13:20:56.205528 IP 172.16.20.2.ftp-data > 10.10.1.1.38030: S 3599538288:3599538288(0) win 5840 <mss 1460,sackOK,timestamp 9673623 0,nop,wscale 3>
13:21:08.205649 IP 172.16.20.2.ftp-data > 10.10.1.1.38030: S 3599538288:3599538288(0) win 5840 <mss 1460,sackOK,timestamp 9685623 0,nop,wscale 3>
13:21:32.205498 IP 172.16.20.2.ftp-data > 10.10.1.1.38030: S 3599538288:3599538288(0) win 5840 <mss 1460,sackOK,timestamp 9709623 0,nop,wscale 3>
13:21:47.204625 IP 172.16.20.2.ftp > 10.10.1.1.42923: P 179:216(37) ack 82 win 724 <nop,nop,timestamp 9724623 2403916581>
13:21:47.204646 IP 10.10.1.1.42923 > 172.16.20.2.ftp: . ack 216 win 4595 <nop,nop,timestamp 2403976581 9724623>
```

-- Exhibit -

Refer to the exhibit.

An LTM Specialist configures a virtual server to load balance to a pool of FTP servers. File transfers are failing. The virtual server is configured as follows:

ltm virtual ftp_vs { destination 10.10.1.103:ftp ip-protocol tcp mask 255.255.255.255 pool ftp_pool profiles {

tcp { }

}

vlans-disabled

}

Which change will resolve the problem?

A. Add an FTP monitor to the pool.

B. Add an FTP profile to the virtual server.

C. Enable loose initiation in the TCP profile.

D. Increase the TCP timeout value in the TCP profile.

Correct Answer: B

QUESTION 4

-- 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@........-....P...W&P.A7qN......S...O..P.......x...z&u....i...!K..[v...7..(.......9.8...S.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..(cK@....(..d....,.........JP.A..n..."...../test/http_custom_redirect_vs
18:27:42.414390 IP 192.168.1.155.8080 > 192.168.1.100.55596: 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 192.168.1.100.55596 > 192.168.1.155.8080: . 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 192.168.1.100.55596 > 192.168.1.155.8080: 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..1..."...../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 5

An LTM Specialist uploaded new releases .iso and .md5 files titled "BIGIP-FILENAME" via the GUI.

Which commands are run via the command line from the root directory to verify the integrity of the new .iso file?

A. cd /var/shared/images md5sum --check BIGIP-FILENAME.iso

B. cd /shared/images md5sum --check BIGIP-FILENAME.iso

C. cd /var/shared/images md5sum --check BIGIP-FILENAME.iso.md5

D. cd /shared/images md5sum --check BIGIP-FILENAME.iso.md5

Correct Answer: D

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