



301B^{Q&As}

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

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QUESTION 1

Which iRule statement demotes a virtual server from CMP?

- A. set ::foo 123
- B. set static::foo 123
- C. persist source_addr 1800
- D. [class match \$HTTP_CONTENT contains my_data_class]

Correct Answer: A

QUESTION 2

A web application requires knowledge of the client's true IP address for logging and analysis purposes. Instances of the application that can decode X-Forwarded-For HTTP headers reside in pool_a, while pool_b instances assume the source

IP is the true address of the client.

Which iRule provides the proper functionality?

- A. when HTTP_DATA { if {[HTTP::header exists X-Forwarded-For]}{ pool pool_a } else { pool pool_b } }
- B. when HTTP_RESPONSE { if {[HTTP::header exists X-Forwarded-For]}{ pool pool_a } else { pool pool_b } }
- C. when HTTP_REQUEST { if {[HTTP::header exists X-Forwarded-For]}{ pool pool_a } else { pool pool_b } }
- D. when HTTP_OPEN { if {[HTTP::header exists X-Forwarded-For]}{ pool pool_a } else { pool pool_b } }

Correct Answer: C



QUESTION 3

-- Exhibit

```
13:20:26.194324 IP 10.10.1.1.42923 > 172.16.20.2.ftp: S 1642091015:1642091015(0) win 4380 <msg 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 <msg 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>
13:20:30.806014 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 172.16.20.2.ftp > 10.10.1.1.42923: 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 <msg 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 <msg 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 <msg 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 <msg 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 <msg 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 { }
}
vllans-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



A failover event is recorded in the log messages:

Jan 01 00:00:50 BIG-IP notice sod[5855]: 01140029:5: HA proc_running tmm fails action is go offline and down links.
Jan 01 00:00:50 BIG-IP notice sod[5855]: 010c0050:5: Sod requests links down. Jan 01 00:00:50 BIG-IP notice sod[5855]: 010c0054:5: Offline for traffic group /Common/traffic-group-1. Jan 01 00:00:50 BIG-IP notice sod[5855]: 010c003e:5: Offline Jan 01 00:00:50 BIG-IP notice logger: /usr/bin/tmipsecd --tmmcount 4 ==> /usr/bin/bigstart stop racoon Jan 01 00:00:50 BIG-IP info lacpd[5502]: 01160016:6: Failover event detected. (Switchboard failsafe disabled while offline) Jan 01 00:00:51 BIG-IP err bcm56xxd[5296]: 012c0010:3: Failover event detected. Marking external interfaces down. bsx.c(3633) Jan 01 00:00:51 BIG-IP info bcm56xxd[5296]: 012c0015:6: Link: 1.1 is DOWN Jan 01 00:00:56 BIG-IP notice mcpd[5318]: 0107143c:5: Connection to CMI peer 10.0.0.3 has been removed Jan 01 00:00:56 BIG-IP notice mcpd[5318]: 0107143a:5: CMI reconnect timer: enabled Jan 01 00:00:56 BIG-IP notice mcpd[5318]: 01071431:5: Attempting to connect to CMI peer 10.0.0.3 port 6699

What is the cause of the failover?

- A. TMM failed, and VLAN fail-safe initiated the failover.
- B. TMM failed, and system fail-safe initiated the failover.
- C. Loss of connection to CMI peer 10.0.0.3 initiated the failover.
- D. A switchboard failure caused system fail-safe to initiate the failover.

Correct Answer: B

QUESTION 5

Internet clients connecting to a virtual server to download a file are experiencing about 150 ms of latency and no packet loss. Which built-in client-side TCP profile provides the highest throughput?

- A. tcp
- B. tcp-legacy
- C. tcp-lan-optimized
- D. tcp-wan-optimized

Correct Answer: D

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