



# 301A<sup>Q&As</sup>

BIG-IP LTM Specialist: Architect, Set up, Deploy

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## QUESTION 1

Exhibit.



- The ITM devices LTM 1 and LTM2 are configured in Device Group X (Sync-Failover)

-LTM3 and LTM4 are configured in Device Group Y (Sync-Only)

-

An LTM specialist configures Device Group Z (Sync-Only) to keep several profiles in (sync-Only) to keep several profiles in sync across all devices.

-

Device GROUP X has four Traffic Groups A,B,C and D configured.

-

Device Group Y has four Traffic Groups E, F, G, and H configured

-Auto Fallback IS NOT Enabled.

-

Each Device group is healthy and able to pass traffic for any traffic group assigned to that Device Group.

The data center that contains LTM2 and LTM4 loses power. After 10 minutes; power is restored and all devices are up and healthy.

What is the state of each Traffic Group on each ITM device after power is restored?



A.

Option A

B.

Option B

C.

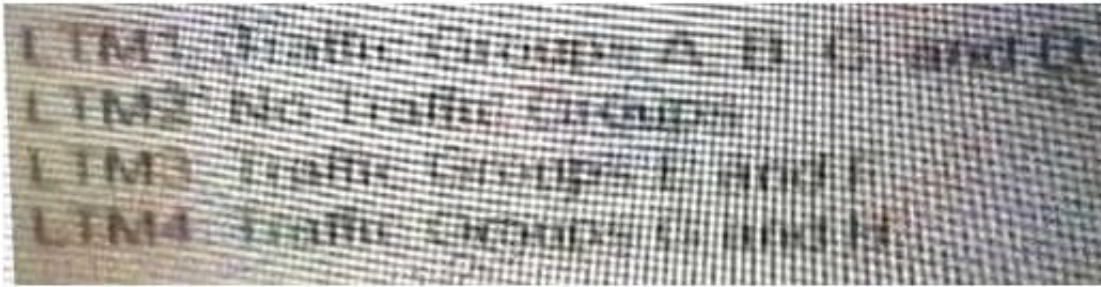
Option C

D.

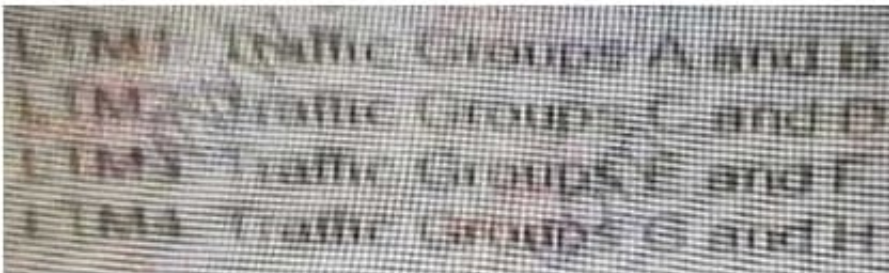
Option D



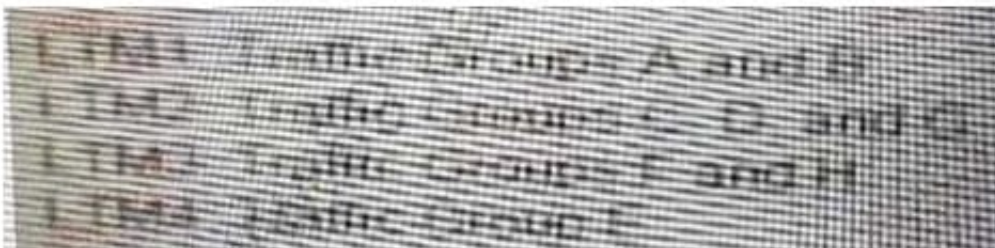
A)



B)



C)



D)



Correct Answer: A

## QUESTION 2

```
set payload {CACHE :: payload}
```

```
}
```

Which two profiles should be used on the virtual server? (Choose two.)



- A. http-transparent
- B. http compression
- C. http
- D. webacceleration
- E. stream

Correct Answer: CD

### QUESTION 3

An LTM Specialist observes decreased performance and intermittent connection reap LTM system.

```
lrm pool main http_pool {
  load-balancing-mode observed-node
  members {
    10.10.0.100:8080 {
      address 10.10.0.100
    }
    10.10.0.101:8080 {
      address 10.10.0.101
    }
    10.10.0.59:8080 {
      address 10.10.0.59
    }
  }
  monitor http
}

lrm profile tcp corp_tcp {
  app-service none
  defaults-from tcp
  idle-timeout 14400
  lrm virtual main vip http {
    destination 192.168.0.100:80
    ip-protocol tcp
    mask 255.255.255.255
    profiles {
      http {
        corp_tcp {
        }
      }
    }
    pool {
      main_http_pool {
      }
    }
    source 0.0.0.0/8
  }
}
```

Based on the configuration, which action will address these issues?

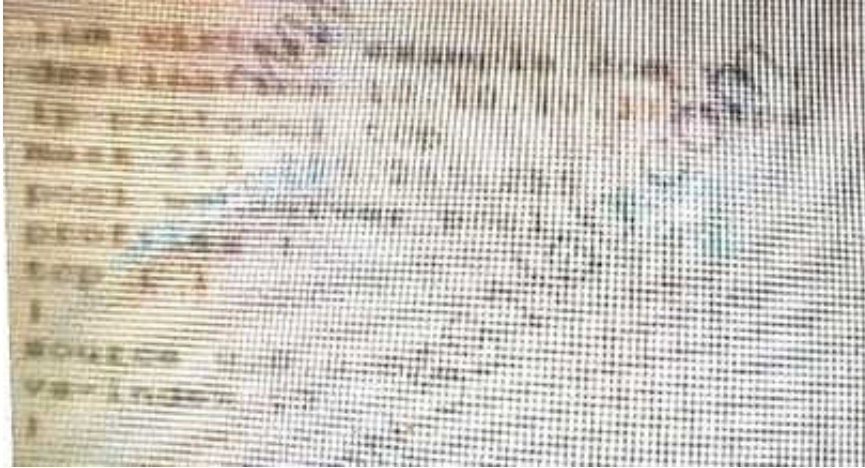
- A. Use an optimized TCP profile.
- B. Use a FastL4 profile on the virtual server
- C. Use a default caching profile on the virtual server.
- D. Use a shorter idle timeout on the TCP profile.

Correct Answer: D



#### QUESTION 4

An SSL application is being migrated to the LTM device. Both encrypted and unencrypted traffic are accepted by the server. The virtual server configuration is as follows:



Which LTM device profile should be used on the LTM device to reduce the CPU load on the current.

- A. Protocol
- B. serverssl
- C. clientssl
- D. stream

Correct Answer: C

---

#### QUESTION 5

While working with a web developer, it is determined that additional logic is required to assess the pool member availability.

Which two monitor types should be used in this scenario? (Choose two)

- A. TCP
- B. Scripted
- C. Gateway ICMP
- D. TCP Echo
- E. External

Correct Answer: BE

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### QUESTION 6

An LTM Specialist is configuring a new virtual server on an LTM device and assigning a SNAT pool that is already in use by another virtual server. Both virtual servers use the same pool members to load balance traffic. A maximum of 35,000 users need to be able to access each virtual server at any time. The network architecture does NOT allow the backend servers to use the LTM device as a default gateway. What is the minimum number of SNAT addresses required in the SNAT pool to meet the needs of the virtual servers?

- A. 2
- B. 3
- C. 4
- D. 1

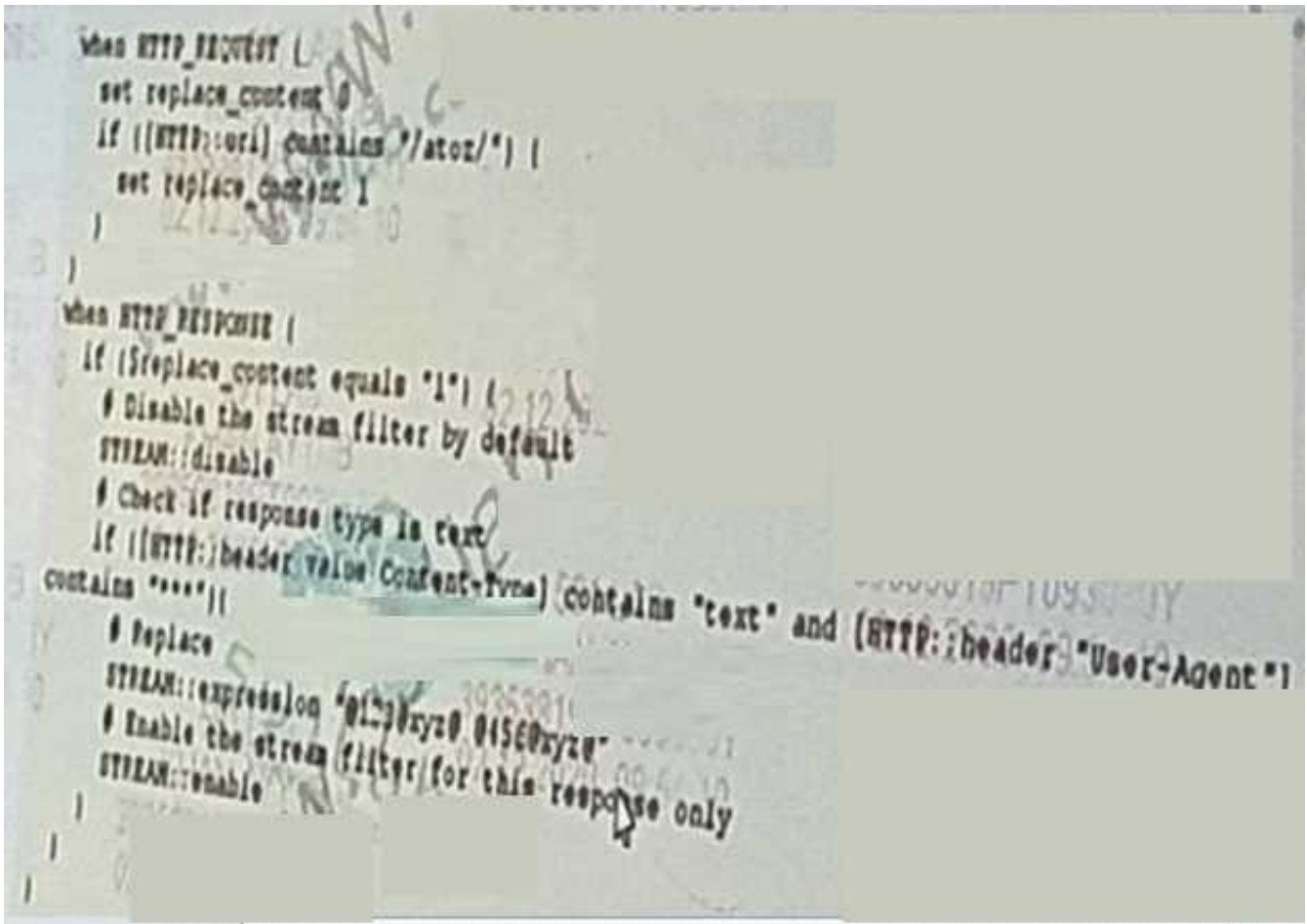
Correct Answer: A

Both VS share the same snat pool, and both use the same pool member. Then the concurrent number of snatpool will be added. For each VS, there is a maximum of 35,000 users, and those two VSs have a maximum of 70,000 users. The stem did not mention how many connections each user would have concurrently. Calculated with a minimum of 1 connection, then 70,000 connections would be concurrent. One IP can support 65,535 connections. Therefore, at least 2 or more snatips are required

---

### QUESTION 7

An application requires load balancing functionality. The application must be encrypted to the client. Certain content must be manipulated by the following IRule: Which set of profiles must be applied to the virtual server?



- A. TCP, HTTP server SSL Stream
- B. TCP, HTTP, Client SSL, Stream
- C. TCP, HTTP, OnceConnect, Stream
- D. Fast L4, HTTP server SSL Stream

Correct Answer: B

Client encryption is required , clientssl, irule contains HTTP events and stream execution, http profile stream profile.

### QUESTION 8

An LTM Specialist must reconfigure a BIG-IP LTM system that load balances traffic to web application servers. The application developer inform the LTM Specialist that TLS must be used to communicate with the application servers.

Which additional profile is required as part of virtual server configuration?

- A. SPDV profile





- B. Server SSL
- C. Client SSL
- D. Rewrite profile

Correct Answer: B

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#### QUESTION 9

A LTM device needs to load balance active and passive FTP traffic while using only a single virtual server. Which virtual server type should an LTM Specialist configure on the LTM device?

- A. Forwarding (Layer 2)
- B. Standard
- C. Stateless
- D. DHCP relay
- E. Forwarding (IP)

Correct Answer: E

---

#### QUESTION 10

An unwanted IP address tries to connect to the configuration utility via Self IP. An LTM Specialist needs to block the attempts based on the IP address. How should the LTM Specialist block the attempts without affecting other users?

- A. SSH IP allow list
- B. Port lockdown
- C. Device trust
- D. Packet filter

Correct Answer: D

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#### QUESTION 11

An LTM Specialist upgrades the switching infrastructure and the backend servers on the LAN segments.

The LTM Specialist notices a 20% memory usage increase on the BIG-IP device while handling the same number of concurrent connections.

A comparison of statistics pre-upgrade and post-upgrade shows a significant reduction on the following:

-RTT between the BIG-IP device and the backend servers



-Packet drops in the switch

Time to First Byte (TTFB)

The LTM Specialist is concerned with the scalability of the number of concurrent connections with the new memory usage.

Which setting should be changed to reduce the memory usage on the BIG-IP device?

- A. Reduce the proxy buffer high setting on the server-side TCP profile
- B. Increase the receive window of the client-side TCP profile
- C. Increase the proxy buffer high setting on the server-side TCP profile
- D. Reduce the idle of the client-side TCP profile

Correct Answer: A

After adjusting the architecture, the network quality becomes better. With the connection unchanged the memory usage increase by 20%. It means that the sending speed of the server is higher than the receiving speed of the client. F5 caches more content on the memory and causes the memory usage to....

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#### QUESTION 12

An LTM Specialist needs to use a set of addresses to access an Internet website in an outbound configuration.

Which feature should the LTM Specialist configure?

- A. NAT pool
- B. NAT address
- C. SNAT pool
- D. SNAT address

Correct Answer: C

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#### QUESTION 13

An HTTP monitor is created and assigned to a pool with the following non-default configuration: Interval: 7 seconds Timeout: 22 seconds Reverse: Yes Send String: GET/status.html HTTP/1.1/r/nHost:test.example.com/r/nConnector:Close Receive String: Up The HTTP server sends the following response:



```
HTTP/1.1 200 OK
Server: Apache
Content-Length: 1217
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Content-Type: text/html

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<HTML>
<HEAD>
<meta http-equiv="Content-type" content="text/html; charset=UTF-8">
</HEAD>
<div>UP-UIV</div>
</BODY>
</HTML>
```

What is the resulting pool status?

- A. Unavailable (Enabled)
- B. Available (Enabled)
- C. Offline (Enabled)
- D. Unknown (Disabled)

Correct Answer: A

#### QUESTION 14

AN LTM Specialist needs to determine the delay between an LTM device and the internal web server for a specific client.

Which two AVR reporting options should the LTM Specialist enable to measure the delay? (Choose two.)

- A. User agents
- B. Methods
- C. Response codes
- D. Server latency
- E. Client IP

Correct Answer: DE

The problem is to specify the server delay of the client

#### QUESTION 15



To improve application security, an LTM Specialist must configure a BIG application access. The BIG IP system to authenticate the client certificate before permitting application access. The BIG-IP system must also support the ability to red to redirect users to a certificate enrolment system without generating a browser error. Within the Client SSL profile, which value should the LTM Specialist select for the Client Certificate option?

- A. Require
- B. Request
- C. Demand
- D. ignore

Correct Answer: A

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