



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

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

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**QUESTION 1**

A company plans to launch a huge marketing campaign and expects increase demand of their secure website. With the current virtual server setup, the LTM Specialist expects that the LTM device will reach its capacity limits. For the web application to function properly. Cookies persistence is required. The LTM Specialist needs to reduce LTM device load without breaking the application. Which two settings should the LTM Specialist modify to meet the requirement? (Choose two.)

- A. Remove HTTP compression profile
- B. Remove HTTP profile
- C. Remove web acceleration profile.
- D. Modify virtual Server type to performance (Layer 4)
- E. Remove ClientSSL profile

Correct Answer: AC

It is required that cookie persist must be used and http profile must be used, and SSL offloading must also be required. It must be in standard mode, excluding BDE.

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**QUESTION 2**

Where does a LTM Specialist view all of the objects that are part of a deployed iApp?

- A. iAPP> Application Policy > Objects
- B. Local Traffic . Virtual Servers > Applications
- C. IAP > Application Service > Components
- D. Local Traffic > Network Map > View Map

Correct Answer: C

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**QUESTION 3**

An LTM device receives a response string containing "error" Which monitor type and parameter will mark the HTTP server as down?

- A. HTTP monitor, Receive String "error", and set the Reverse option to Yes
- B. HTTP monitor and Receive String "error\\\\" ... flag is up
- C. HTTP monitor. Receive String "down", and set the Reverse option to Yes .... flag is
- D. HTTP monitor and Receive Disable String "error\\\\" .... flag is disable

Correct Answer: A

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**QUESTION 4**

A virtual server configuration for traffic destined to a server is as shown:

VS Name	Destination	Service port	Source
MyVS1	10.10.20.1/32	80	0.0.0.0/0
MyVS2	10.10.20.1/32	*	10.10.10.0/24
MyVS3	10.10.20.1/32	80	10.10.10.0/25
MyVS4	10.10.20.0/24	21	0.0.0.0/0

HTTP traffic is destined to the 10.10.20.1 server from the source. Based on precedence, which virtual server accepts this traffic?

- A. MyVS1
- B. MyVS2
- C. MyVS3
- D. MyVS4

Correct Answer: B

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**QUESTION 5**

An LTM Specialist plans to enable connection mirroring for a virtual server in an HA environment. What must the LTM Specialist consider before implementing the configuration change?

- A. Impact on system performance that might be noticeable
- B. The add-on license that is required for this feature to be available
- C. Creating the required separate interface for connection mirroring
- D. Decreased number of possible concurrent connections to that virtual server

Correct Answer: A

Connection mirroring will bring performance consumption

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**QUESTION 6**

A web developer needs a virtual server configured for an application.



The application details are as follows:

Application is accessed on port 443.

The application traffic is encrypted by the server.

HTTP is not being used. No data manipulation is necessary.

Throughput is critical.

NO connections are terminated on the LTM.

Which configuration provides the best performance?



A.

```
!tm virtual /Common/WebServer {  
  destination /Common/10.10.10.10:443  
  ip-protocol tcp  
  mask 255.255.255.255  
  pool /Common/Web_pool  
  profiles {  
    /Common/fastL4 {}  
  }  
  source 0.0.0.0/0  
  translate-address enabled  
  translate-port enabled  
}
```



B.

```
!m virtual /CommonWebServer {
  destination /Common/10.10.10.443
  ip-protocol tcp
  mask 255.255.255.255
  pool /CommonWeb_pool
  profiles {
    /CommonWildcardCert {
      context clientside
    }
    /Common'serverssl {
      context serverside
    }
    /Commontcp-lan-optimized {
      context serverside
    }
    /Commontcp-wan-optimized {
      context clientside
    }
  }
  source 0.0.0.0
  translate-address enabled
  translate-port enabled
}
```



C.

```
/Common/tcp-wan-optimized {  
  context clientside  
}  
}  
source 0.0.0.0  
translate-address enabled  
translate-port enabled  
}
```

D.

```
!tm virtual /Common/WebServer {  
  destination /Common/10.10.10.10:443  
  ip-protocol tcp  
  mask 255.255.255.255  
  pool /Common/Web_pool  
  profiles {  
    /Common/tcp { }  
  }  
  source 0.0.0.0  
  translate-address enabled  
  translate-port enabled  
}
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

**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?



```
when HTTP_REQUEST {
  set replace_content 0
  if ([HTTP::uri] contains "/atoz/") {
    set replace_content 1
  }
}

when HTTP_RESPONSE {
  if ([replace_content equals "1"]) {
    # Disable the stream filter by default
    STREAM::disable
    # Check if response type is text
    if ([HTTP::header value Content-Type] contains "text" and [HTTP::header "User-Agent"]
contains "****") {
      # Replace
      STREAM::expression "0123@xyz0 0456@xyz0"
      # Enable the stream filter for this response only
      STREAM::enable
    }
  }
}
```

- 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 system that load balances traffic to a web application. The security department has informed the LTM Specialist that the following cipher string must be used for TLS connections from BIG-IP to the web application.

NATIVE:IMDS:EXPORT:IDHE:EDH@SPEED

In which virtual server profile should the cipher string be configured?





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

Correct Answer: A

Require SSL and flow F5 to server, server ssl

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### QUESTION 9

Consider the monitor configuration displayed below.

```
ltm monitor http MyHTTP_Monitor {
  defaults-from http
  destination *:*
  interval 5
  recv "200 OK"
  reverse enabled
  send "GET /\r\n"
  time-until-up 0
  timeout 16
}
```

What is the status of a pool member that responds with `HTTP/1.1 200 OK`?

- A. available
- B. down
- C. disabled
- D. unknown

Correct Answer: B

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**QUESTION 10**

An LTM Specialist needs to load balance an application using an LTM device to meet the requirements:

1.

The application servers do NOT Support SSL, but client access to the application should be secured.

2.

Multiple requests from the same client should be sent to the same pool member.

3.

All pool members will have roughly the same processing power, and traffic should be distributed evenly.

The LTM device is NOT the pool members' default gateway. Which configuration should the LTM Specialist.

- A. a performance 14 virtual server with a SNAT and cookie persistence
- B. a performance L4 virtual server with a Client SSL profile and Source Address persistence
- C. A performance L4 virtual server with a SNAT, HTTP profile. Server SSL profile, and cookie persistence
- D. A standard virtual server with a SNAT, HTTP profile Server SSL profile, and cookie persistence
- E. A standard virtual server with a SNAT, HTTP profile, Client profile, and cookie persistence.

Correct Answer: E

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**QUESTION 11**

Which process can be eliminated by terminating SSL communication on the LTM device rather than the backend pool members?

- A. generating CSRS
- B. obtaining SSL certificates from a certificate authority
- C. administering SSL on the web servers
- D. applying security patches on the backend pool members

Correct Answer: C

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**QUESTION 12**

A BIG IP device delivers the online shopping website <https://shop.example.com>. Two pool members handle the traffic. An iRule directs requests with the hip parameter "environment=development" to a third pool member for a staging environment.



Which combination of profiles is needed at minimum?

- A. tcp, http, request logging
- B. tcp, http, clientssl
- C. tcp, clientssl, serverssl
- D. http, clientssl, persistence

Correct Answer: B

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### QUESTION 13

A new iRule needs to be tested. The LTM Specialist needs to measure page load times and monitor potential changes in memory usage. A load test is scheduled. Which two features should the LTM Specialist use to monitor these requirements? (Choose two.)

- A. Tmsh show memory
- B. Analytics
- C. Tmsh show sys proc-info
- D. Tmsh show sys provision

Correct Answer: BC

Need to detect memory changes in real time, use to Page load times with Analytics profile

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### QUESTION 14

An LTM Specialist is configuring a new virtual server on an LTM device and assigning a SNAT pool that is already used by another virtual server. Both virtual servers use the same pool members to load balance traffic. A maximum of 35,000 users needs 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 snatpools are required



**QUESTION 15**

What should an LTM Specialist configure on an LTM device to send AVR notification emails?

- A. Email notification to be sent via iControl from the LTM device
- B. Syslog on the LTM device to send to an SMTP server
- C. Custom SNMP traps on the LTM device for AVR notifications
- D. Email notification to be sent via SMTP from the LTM device

Correct Answer: D

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