



Vendor: F5

Exam Code: 301a

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

Version: DEMO

QUESTION 1

An LTM Specialist needs to deploy a virtual server that will load balance traffic targeting <https://register.example.com> to a set of three web servers. Persistence needs to be ensured. No persistence mirroring is allowed SSL offloading is required. A fourth web server with fewer resources will be used to handle requests from engine bots to <https://register.example.com/vrobots.txt> by an iRule. The (Rule will use the HTTP_REQUEST event.

What are the required profile and persistence settings to implement this

- A. tcp, clientssl, http, source address persistence
- B. tcp, clientssl, http, cookie persistence
- C. tcp, clientssl, serverssl, ssl persistence
- D. tcp, clientssl, http, serverssl cookie persistence

Answer: B

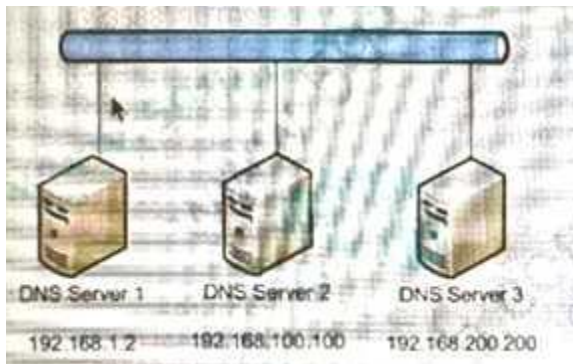
Explanation:

The option is wrong, it should be clientssl and serverssl. If the title requires ssl offload instead of encryption, you need clientssl instead of serverssl. irule needs HTTP profile to enable HTTP_REQUEST. If the session cannot be mirrored, the cookie session remains to meet the demand.

QUESTION 2

The server team has recently configured the three new DNS servers shown for the data center. No current DNS servers are currently configured on the LTM device.

Which command should be used to configure the LTM device to use the new DNS servers?



- A. tmsh create/sysdns name-servers add {192.168.1.2.192.168.100.100.192.168.200.200}
- B. tmsh change /sysdns name-servers add {192.168.1.2.192.168.100.100.192.168.200.200}
- C. tmsh modify/sysdns name-servers add {192.168.1.2.192.168.100.100.192.168.200.200}
- D. tmsh set/sysdns name-servers add {192.168.2.192.168.100.100.192.168.200.200}

Answer: C

Explanation:

Modify the configuration with modify, and create the configuration with create. Excluding B and D, and the question is to modify the DNS pointer of E5 itself the need to use is modify.

QUESTION 3

An LTM specialist needs to create a new account with the admin role called 'newadmin' and access to all partitions.

Which tmsh command should be executed?

- A. create /auth user newadmin partition-access add {all-partitions {role admin }} prompt for-password.
- B. create /users newadmin partition-access add {all-partitions {role admin JJ prompt for-password.
- C. create /user newadmin partition-access add (all-partitions {role admin }) prompt- for-password.
- D. create / sys user newadmin partition-access add (all-partitions {role admin }) prompt-for- password.

Answer: A

Explanation:

Examining the use of commands, the creation of user is subordinate to auth.

QUESTION 4

An LTM Specialist is configuring a new virtual server on an LTM device and assigning a SNAT pool that is already is use 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 ta 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

Answer: A

Explanation:

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 connection. Therefore, at least 2 or more snaptips are required

QUESTION 5

An LTM Specialist to configure a backend server to be disabled it takes longer than 30 seconds to respond to a request.

Which values should the LTM Specialist enter for interval and timeout?

- A. Interval 10, timeout 30
- B. Interval 10, timeout 31
- C. Interval 30, timeout 30
- D. Interval 30, timeout 91

Answer: B

Explanation:

The official recommendation is that timeout 3 times the interval value +1.

QUESTION 6

Remote office users are having performance issues with a virtual hosted on the F5 LTM.

The LTM Specialist reviews the configuration for the virtual server and determine that some

settings are set with default profiles.

Which profile should the LTM Specialist enable to improve virtual server performance?

- A. A WAN optimized client side profile
- B. A FastL4 profile on the virtual server
- C. An HTTP profile for the virtual server
- D. A Stream profile for the remote user networks

Answer: A

Explanation:

The key word is that there are performance problems with Remote office users, no F5. The user experience can be improved through TCP optimization. The expression should be `wom-tcp-wan-optimized` in Protocol Profile (Client)

QUESTION 7

An LTM Specialist needs to configure a virtual server with the requirements displayed below. Application is currently an internal HTTP application. Encrypted external user access links are hard for `siteA.example.com` and need to be rewritten to `siteB.Example.com`. Which profiles must the LTM Specialist use to provide the proper functionality?

- A. Clientssl, Stream
- B. Serverless, Stream
- C. Clientssl, fastL4, Stream
- D. Serverless, fastL4, Stream

Answer: A

Explanation:

For HTTP application and external encryption, `clientssl` is required, and if the message content needs to be modified, the `stream` profile is required. `fastL4` profile cannot coexist with `clientssl` and `stream`.

QUESTION 8

An LTM Specialist needs to force only FTP traffic, sourced from subnet `10.10.10.0/24` to virtual server `10.10.20.1` to the new FTP1 server.

The following virtual servers are configured on the LTM device:

Traffic sourced from `10.10.10/24` must use the specific pool member for load balancing.

Which configuration change is needed to meet the requirements?

- A. Create a new virtual server for traffic sourced from `10.10.10.0/24` on port 80 that is destined to `10.10.20.1/32`, and create a new pool that has only the pool member `FTP1` defined.
- B. Add `FTP1` to the pool assigned to the `MyVS4` virtual server, and remove all other pool members from the pool.
- C. Create a new virtual server for traffic sourced from `10.10.10.0/24` on traffic sourced from `10.10.10./24` on port 21 that is destined to `10.10.20.1/32`, and create a new pool that has only the pool member `FTP1` defined.
- D. Add `FTP1` to the pool assigned to the `MyVS2` virtual server, and remove all other pool members from the pool.

Answer: D

Explanation:

According to the VS matching order, first match the destination host IP, then match the destination port and finally match the source network segment. In the current network configuration, 10.10.10./24 access to 10.10.10.20.1 will hit MyVS2. If there is no error in the title, subnet 10.10.10.0 to virtual Server 10.10.20.1 to the FTP1 server," Is to distribute all traffic from 10.10.10.1 to FTP1, then D That's right.

QUESTION 9

An LTM device configuration is as shown:

An LTM device configuration is as shown

```
ltm virtual /Common/VS-10.45.120.4_80 (
  destination /Common/10.45.120.4:80
  ip-protocol tcp
  mask 255.255.255.255
  persist (
    /Common/Persist_900 (
      default yes
    )
  )
  pool /Common/site-10.45.120.4_80
  profiles (
    /Common/tcp ( )
  )
  source 0.0.0.0/0
  translate-address enabled
  translate-port enabled
)

ltm persistence source-addr /Common/Persist_900 (
  app-service none
  defaults-from /Common/source_addr
  timeout 900
)
```

What should be the two expected outcomes based on this configuration? (Choose two.)

- A. A client session that has been idle for 16 minutes will be sent to the same pool member
- B. A client session that has been idle for 20 minutes will be balanced to a new pool member
- C. A client session that has been idle for 14 minutes will be balanced to a new pool member
- D. A client session that has been idle for 48 minutes will be sent to the same pool members
- E. A client session that has been idle for 12 minutes will be sent to the same pool member

Answer: BE

QUESTION 10

An LTM Specialist needs to upgrade all guests on a Viprion eight CMP guests.

What is the maximum number of guests that the LTM Specialist should upgrade at once?

- A. Eight
- B. One
- C. TWO
- D. Four

Answer: B

Explanation

Each guest is independent, just like hardware upgrades. Can only upgrade one by one, there is no way to upgrade at the same time.

QUESTION 11

An LTM Specialist is configuring a client profile to offload processing a new application. Company policy requires that clients can resume session for up to 30 minutes, but must renegotiate a new session after that.

Which setting should the LTM Specialist change to satisfy this requirement?

- A. Renegotiate Max Record Delay
- B. Renegotiation period
- C. Cache size
- D. Cache timeout

Answer: D

Explanation:

Question stem requires that you can resume SSL session within 30 minutes, then you need to define the ssl cache time in 30 minutes.

QUESTION 12

Remote users who access the LTM device are authenticated via Radius. The default remote user 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

Answer: A

Explanation:

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....

QUESTION 13

An LTM Specialist needs to use the tmsh command to create a pool named http_pool with member 10.10.101:80 on an LTM device.

Which expression should the LTM Specialist use?

- A. # tmsh create pool http_pool members {10.10.10.101:80}
- B. # tmsh create pool http_pool members add {10.10.10.101:80}
- C. # tmsh create it pool http_pool members {10.10.10.101:80}
- D. # tmsh create itm pool http_pool member {10.10.10.101:80}

Answer: C

Explanation:

The option should be wrong, it should ne itm instead of it, the correct command is:tmsh create itm pool http_pool members add (10.10.10.101:80)

QUESTION 14

TWO BIG-IP appliances need to be configured to load balance multiple firewall in a firewall sandwich.

Which health monitor setting should be used to verify that the firewalls are able to forward traffic?

- A. Adaptive
- B. Reverse
- C. Transparent
- D. Up internal

Answer: C

Explanation:

Sandwich architect firewalls are generally deployed transparently. You can enable Transparent to point to the next-hop address of the firewall and associate it with the firewall pool member for detection.

QUESTION 15

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 wen 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

Answer: AC

Explanation:

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.

QUESTION 16

An LTM Specialist needs to apply SNAT using currently used SNAT pool to a new virtual server. What needs to be completed before applying that configuration change?

- A. Review connection for the selected SNAT pool and enlarge it if appropriate
- B. Make sure that the BIG-IP device is NOT operating under heavy load during peak times
- C. Verify that the IP address of the SNAT pool are in the same subnet as the pool members
- D. Verify that the IP address of the SNAT pool are in the same VLAN as the pool members.

Answer: A

Explanation:

SNAT does not need to be in the same vlan or same network segment as the pool member, as long as the route is reachable, excluding C and D the connection information of the SNAT pool to avoid port exhaustion under high concurrency.

QUESTION 17

An LTM Specialist is deploying an iRule designed to determine the country of origin of an incoming client connection. The iRule needs to be used with an SSL-enabled web application. Which profile is required for the iRule to function properly?

- A. HTTP
- B. DNS
- C. TCP
- D. UDP

Answer: C

Explanation:

Question stem requires the client IP to match the source region, so TCP - UDP at the transport layer can meet the requirements. The title stem mentions that it is a Web application based on SSL, and it does not mention F5 undertakes SSL offload, So TCP is enough.

QUESTION 18

An LTM Specialist reports that an application is no longer reachable after it has been upgraded. Nothing has been changed in the configuration on the LTM device. The logs indicate that health monitors to all servers have failed as shown:
What should the LTM Specialist verify next?

- A. That the TCP hand shake with the servers is still completed using tcpdump
- B. That the custom receive string for the HTTP monitor has changed with the upgrade
- C. That the can still ping the servers from the BIG-IP device.
- D. That the firewall between the BIG-IP device and servers is still allowing HTTP

Answer: B

Explanation:

The log shows that tcp detection is normal, but http detection is abnormal. So we should pay attention to the detection problem of http level.

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