



F5 Networks 303 Practice Questions

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Question 1

Question Type: MultipleChoice

An LTM Specialist is investigating reports from users that SSH connections are being terminated unexpectedly. SSH connections are load balanced through a virtual server. The users experiencing this problem are running SQL queries that take upwards of 15 minutes to return with no screen output. The virtual server is standard with a pool associated and no other customizations.

What is causing the SSH connections to terminate?

Options:

- A- UDP IP ToS
- B- TCP idle timeout
- C- The virtual server has no persistence.
- D- The pool has Reselect Retries set to 0.

Answer:

B

Question 2

Question Type: MultipleChoice

-- Exhibit --

Capture through LTM device

```
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on External, link-type EN10MB (Ethernet), capture size 96 bytes
16:52:54.866907 IP 192.168.1.1.6789 > 192.168.1.211.443: S 2995699259:2995699259(0) win 8192 <mss 1460,nop,wscale 2,nop,nop,sackOK>
16:52:54.866974 IP 192.168.1.211.443 > 192.168.1.1.6789: S 2305990363:2305990363(0) ack 2995699260 win 4380 <mss 1460,nop,wscale 0,sackOK,eol>
16:52:54.868417 IP 192.168.1.1.6789 > 192.168.1.211.443: . ack 1 win 16425
16:52:54.868422 IP 192.168.1.1.6789 > 192.168.1.211.443: P 1:105(104) ack 1 win 16425
16:52:54.868451 IP 192.168.1.144.6789 > 192.168.10.80.443: S 236216155:236216155(0) win 4380 <mss 1460,nop,wscale 0,sackOK,eol>
16:52:54.868457 IP 192.168.1.211.443 > 192.168.1.1.6789: . ack 105 win 4484
16:52:57.869207 IP 192.168.1.144.6789 > 192.168.10.80.443: S 236216155:236216155(0) win 4380 <mss 1460,nop,wscale 0,sackOK,eol>
16:53:01.068627 IP 192.168.1.144.6789 > 192.168.10.80.443: S 236216155:236216155(0) win 4380 <mss 1460,nop,wscale 0,sackOK,eol>
16:53:04.268911 IP 192.168.1.144.6789 > 192.168.10.80.443: S 236216155:236216155(0) win 4380 <mss 1460,sackOK,eol>
16:53:07.468781 IP 192.168.1.211.443 > 192.168.1.1.6789: R 1:1(0) ack 105 win 4484
```

Capture direct to application server

tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on eth1, link-type EN10MB (Ethernet), capture size 96 bytes

```
09:46:03.428985 IP 192.168.1.1.31214 > 192.168.10.80.8443: S 1295563595:1295563595(0) win 4380 <mss 1460,nop,wscale 0,sackOK,eol>
09:46:03.430000 IP 192.168.10.80.8443 > 192.168.1.1.31214: S 2962914236:2962914236(0) ack 1295563596 win 5840 <mss 1460,nop,nop,sackOK,nop,wscale 3>
09:46:03.430041 IP 192.168.1.1.31214 > 192.168.10.80.8443: . ack 1 win 4380
09:46:03.463946 IP 192.168.1.1.31214 > 192.168.10.80.8443: P 1:137(136) ack 1 win 4380
09:46:03.463072 IP 192.168.10.80.8443 > 192.168.1.1.31214: . ack 137 win 864
09:46:03.466127 IP 192.168.10.80.8443 > 192.168.1.1.31214: P 1:139(138) ack 137 win 864
09:46:03.466150 IP 192.168.1.1.31214 > 192.168.10.80.8443: . ack 139 win 4518
09:46:03.720163 IP 192.168.1.1.31214 > 192.168.10.80.8443: P 137:196(59) ack 139 win 4518
09:46:03.720183 IP 192.168.1.1.31214 > 192.168.10.80.8443: P 196:542(346) ack 139 win 4518
09:46:03.721853 IP 192.168.10.80.8443 > 192.168.1.1.31214: . ack 542 win 998
09:46:03.723009 IP 192.168.10.80.8443 > 192.168.1.1.31214: . 139:1599(1460) ack 542 win 998
09:46:03.723023 IP 192.168.10.80.8443 > 192.168.1.1.31214: P 1599:2693(1094) ack 542 win 998
09:46:03.723026 IP 192.168.10.80.8443 > 192.168.1.1.31214: F 2693:2693(0) ack 542 win 998
09:46:03.723060 IP 192.168.1.1.31214 > 192.168.10.80.8443: . ack 2693 win 7072
09:46:03.723072 IP 192.168.1.1.31214 > 192.168.10.80.8443: . ack 2694 win 7072
09:46:03.818084 IP 192.168.1.1.31214 > 192.168.10.80.8443: F 542:542(0) ack 2694 win 7072
09:46:03.819820 IP 192.168.10.80.8443 > 192.168.1.1.31214: . ack 543 win 998
```

Trace direct to application server

Started	Time Chart	Time	Sent	Received	Method	Result	Type	URL
00:00:00.000	This page (index.html) is from Server 1							
+ 0.000		9.140	278	2480	GET	200		http://srv1.example.com/
+ 9.144		9.134	336	5079	GET	200		http://srv1.example.com/header.gif
+ 9.146		9.266	334	19307	GET	200		http://srv1.example.com/left.gif
+ 9.147		9.232	335	14644	GET	200		http://srv1.example.com/right.gif
+ 9.149		9.189	336	4192	GET	200		http://srv1.example.com/footer.jpg
	9.186 → 18.414	18.412	1619	45702	5 requests			

Trace through LTM device

Started	Time Chart	Time	Sent	Received	Method	Result	Type	URL
00:00:00.000	This page (index.html) is from SSL Server 1							
+ 0.000		0.428	346	2650	GET	200		https://www.example.com/
+ 0.435		9.110	300	0	GET	ERROR_INTERNET_CONNECTION_ABORTED		http://www.example.com/header.gif
+ 0.435		9.322	298	0	GET	ERROR_INTERNET_CONNECTION_ABORTED		http://www.example.com/left.gif
+ 0.435		9.322	299	0	GET	ERROR_INTERNET_CONNECTION_ABORTED		http://www.example.com/right.gif
+ 0.435		9.322	300	0	GET	ERROR_INTERNET_CONNECTION_ABORTED		http://www.example.com/footer.jpg
	0.452 → 9.759	9.757	1543	2650	5 requests			

```
ltm virtual VS_HTTP {
    destination 10.10.17.100:http
    ip-protocol tcp
    mask 255.255.255.255
    pool Pool_HTTP
    profiles {
        http { }
        tcp { }
    }
    snat automap
    vlans-disabled
}

ltm pool Pool_HTTP {
    members {
        172.16.20.1:http {
            address 172.16.20.1
        }
        172.16.20.2:http {
            address 172.16.20.2
        }
        172.16.20.3:http {
            address 172.16.20.3
        }
    }
}
```

-- Exhibit --

Refer to the exhibits.

An LTM Specialist is troubleshooting an application configured on an LTM device on a one-armed configuration. The application is NOT working through the LTM device but does work when accessed directly via the application servers. The virtual server 192.168.1.211:443 is configured to SNAT using the address 192.168.1.144 and references a pool with the member 192.168.10.80:443. No Client or Server SSL profiles are associated. The LTM Specialist has collected two traffic captures to help determine the issue.

What is the problem with the configuration on the LTM device?

Options:

- A- Pool member is configured to use wrong port.
- B- Pool member is configured for SSL off-loading.
- C- Virtual server is configured to use wrong port.
- D- Virtual server is configured without SSL Profiles.

Answer:

A

Question 3

Question Type: MultipleChoice

-- Exhibit --

Net::Interface																		
Name	Status	Mac-Addr	MTU	Bits In	Bits Out	Pkts In	Pkts Out	Mcast In	Mcast Out	Drops In	Drops Out	Errs In	Errs Out	Collisions	Media	Flow Ctrl	Trunk	Aggreg
1.1	up	0:1:d7:a8:4d:c4	1500	275.3G	43.1G	62.7M	30.8M	7.3M	246	223.9M	0	0	0	0	1000T-FD	tx-rx	none	detached
1.2	down	0:1:d7:a8:4d:c5	1500	0	0	0	0	0	0	0	0	0	0	0	none	tx-rx	none	detached
1.3	down	0:1:d7:a8:4d:c6	1500	0	0	0	0	0	0	0	0	0	0	0	none	tx-rx	none	detached
1.4	down	0:1:d7:a8:4d:c7	1500	0	0	0	0	0	0	0	0	0	0	0	none	tx-rx	none	detached
1.5	down	0:1:d7:a8:4d:c8	1500	0	0	0	0	0	0	0	0	0	0	0	none	tx-rx	none	detached
1.6	down	0:1:d7:a8:4d:c9	1500	0	0	0	0	0	0	0	0	0	0	0	none	tx-rx	none	detached
1.7	down	0:1:d7:a8:4d:ca	1500	0	0	0	0	0	0	0	0	0	0	0	none	tx-rx	none	detached
1.8	down	0:1:d7:a8:4d:cb	1500	0	0	0	0	0	0	0	0	0	0	0	none	tx-rx	none	detached
2.1	miss	0:1:d7:a8:4d:cc	1500	0	0	0	0	0	0	0	0	0	0	0	none	tx-rx	none	detached
2.2	miss	0:1:d7:a8:4d:cd	1500	0	0	0	0	0	0	0	0	0	0	0	none	tx-rx	none	detached
mgmt	up	0:1:d7:a8:4d:c1	1500	76.6G	138.1G	113.8M	22.5M	6.4M	123	0	0	2.2M	0	2.2M	100TX-HD	none	none	detached

-- Exhibit --

Refer to the exhibit.

Based on the output of the tmsh interface show command, What is the issue?

Options:

- A- There is a duplex mismatch on the management interface.
- B- Interfaces 2.1 and 2.2 are defective and need replacement.
- C- Flow Control is NOT configured on the management interface.
- D- There are too many drops on inbound traffic on interface 1.1.

Answer:

A

Question 4

Question Type: MultipleChoice

A BIG-IP Administrator needs to restore a UCS file to an F5 device using the Configuration Utility. Which section of the Configuration Utility should the BIG-IP Administrator access to perform this task?

Options:

- A- Local Traffic > Virtual Servers
- B- Local Traffic > Policies
- C- System > Archives
- D- System > Configuration

Answer:

C

Question 5

Question Type: MultipleChoice

-- Exhibit --

-- Exhibit --

Refer to the exhibit.

Which step should an LTM Specialist take to utilize AVR?

Options:

- A- provision AVR
- B- reboot the device
- C- install the AVR add-on
- D- license the device for AVR

Answer:

A

Question 6

Question Type: MultipleChoice

A BIG-IP Administrator assigns the default http health monitor to a pool that has three members listening on port 80. When the administrator connects to each pool member via the CURL utility, two of the members respond with a status of 404 Not Found while the third responds with 200 OK. What will the pool show for member availability?

Options:

- A- All members offline.
- B- Two members offline and one member online.
- C- Two members online and one member offline.
- D- All members online.

Answer:

D

Question 7

Question Type: MultipleChoice

A BIG-IP Administrator is making adjustments to an iRule and needs to identify which of the 235 virtual

server configured on the BIG-IP device will be affected.

How should the administrator obtain this information in an effective way?

Options:

- A- Local Traffic > Virtual Server
- B- Local traffic Pools
- C- LOCAL Traffic > Network Map
- D- Local traffic > Rules

Answer:

C

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