



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

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

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## QUESTION 1

A BIG-IP Operator has made a grave error and deleted a few virtual servers on the active LTM device fronting the web browsing proxies. The BIG-IP Operator has NOT yet performed a configuration sync. Which command should the LTM Specialist execute on the active LTM device to force a failover to the standby node and restore web browsing?

- A. tmsh /sys failover standby
- B. tmsh run /sys failover standby
- C. tmsh /sys failover status standby
- D. tmsh run /sys failover status standby

Correct Answer: B

## QUESTION 2

-- Exhibit

External Vlan tcpdump:

```
16:38:10.184240 IP 168.210.232.5.59156 > 66.212.246.58.1990: S 1208467898:1208467898(0) win 8192 <mss 1380,nop,wscale 8,nop,nop,sackOK>
16:38:10.184249 IP 66.212.246.58.1990 > 168.210.232.5.59156: S 2009182511:2009182511(0) ack 1208467899 win 4140 <mss 1460,nop,wscale 0,sackOK,eol>
16:38:10.454030 IP 168.210.232.5.59156 > 66.212.246.58.1990: . ack 1 win 5
16:38:52.809723 IP 168.210.232.5.31084 > 66.212.246.58.1991: S 2991752264:2991752264(0) win 8192 <mss 1380,nop,wscale 8,nop,nop,sackOK>
16:38:52.809734 IP 66.212.246.58.1991 > 168.210.232.5.31084: S 2217364875:2217364875(0) ack 2991752265 win 4140 <mss 1460,nop,wscale 0,sackOK,eol>
16:38:52.737749 IP 168.210.232.5.59172 > 66.212.246.58.2002: S 3158709238:3158709238(0) win 8192 <mss 1380,nop,wscale 8,nop,nop,sackOK>
16:38:52.737766 IP 66.212.246.58.2002 > 168.210.232.5.59172: S 7716150:7716150(0) ack 3158709239 win 4140 <mss 1460,nop,wscale 0,sackOK,eol>
16:38:53.007421 IP 168.210.232.5.59172 > 66.212.246.58.2002: . ack 1 win 5
16:38:53.078216 IP 168.210.232.5.31084 > 66.212.246.58.1991: . ack 1 win 5
16:43:21.434766 IP 168.210.232.5.59156 > 66.212.246.58.1990: R 830:830(0) ack 94934 win 0
```

Internal Vlan tcpdump:

```
16:38:11.887217 IP 168.210.232.5.10033 > 10.240.243.65.1989: S 2408612037:2408612037(0) win 4380 <mss 1460,nop,wscale 0,sackOK,eol>
16:38:11.887559 IP 10.240.243.65.1989 > 168.210.232.5.10033: S 165435577:165435577(0) ack 2408612038 win 8192 <mss 1310,nop,nop,sackOK>
16:38:11.887566 IP 168.210.232.5.10033 > 10.240.243.65.1989: . ack 1 win 4380
16:38:53.007459 IP 168.210.232.5.59172 > 10.240.243.66.2002: S 26149351:26149351(0) win 4380 <mss 1460,nop,wscale 0,sackOK,eol>
16:38:53.007908 IP 10.240.243.66.2002 > 168.210.232.5.59172: S 3860985485:3860985485(0) ack 26149352 win 8192 <mss 1310,nop,nop,sackOK>
16:38:53.007916 IP 168.210.232.5.59172 > 10.240.243.66.2002: . ack 1 win 4380
16:38:53.078499 IP 168.210.232.5.31084 > 10.240.242.197.1991: S 2788170026:2788170026(0) win 4380 <mss 1460,nop,wscale 0,sackOK,eol>
16:38:53.078861 IP 10.240.242.197.1991 > 168.210.232.5.31084: S 2169754248:2169754248(0) ack 2788170027 win 8192 <mss 1310,nop,wscale 8,nop,nop,sackOK>
16:38:53.078871 IP 168.210.232.5.31084 > 10.240.242.197.1991: . ack 1 win 4380
16:43:29.434782 IP 168.210.232.5.10033 > 10.240.243.65.1989: R 181:181(0) ack 88278 win 65535
```

-- Exhibit -Refer to the exhibit.

A company uses a complex piece of client software that connects to one or more virtual servers (VS) hosted on an LTM device. The client software is experiencing issues. An LTM Specialist is tasked with finding the cause of the problem.

The LTM Specialist has the tcpdump extract and knows the client software has at least one connection to a VS on port 1990. However, when a tcpdump runs on the internal VLAN, there is no record of port 1990 in the tcpdump.

Why is there no record of port 1990 in the tcpdump?

- A. The LTM device drops the connection.
- B. Port 1990 is a well-known port, so its use is restricted.
- C. The LTM device performs a Port Address Translation (PAT).



D. The LTM device performs a Network Address Translation (NAT).

Correct Answer: C

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### QUESTION 3

A high-availability (HA) pair configuration uses only the hardwire serial cable connection to determine device state. A power outage occurs to the PDU powering the active unit. The standby unit takes over the active role as expected.

How is the peer unit able to determine the active unit is unavailable?

- A. voltage loss on serial cable
- B. no data stream received on serial port
- C. no response on management interface
- D. no heartbeat packets received on self IPs

Correct Answer: A

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### QUESTION 4

An LTM Specialist has a single HTTPS virtual server doing SSL termination. No server SSL profile is defined. The pool members are on the internal VLAN answering on HTTP port 80. Users with certain browsers are experiencing issues.

Which two locations are most appropriate to gather packets needed to determine the SSL issue? (Choose two.)

- A. server interface
- B. user's computer
- C. LTM device's external VLAN
- D. LTM device's internal VLAN
- E. LTM device's management interface

Correct Answer: BC

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### QUESTION 5

-- Exhibit



```
ltm pool /Common/my_admin_pool {
  members {
    /Common/10.0.0.1:80 {
      address 10.0.0.1
    }
    /Common/10.0.0.2:80 {
      address 10.0.0.2
    }
  }
}

ltm pool /Common/my_default_pool {
  members {
    /Common/10.0.0.4:80 {
      address 10.0.0.4
    }
    /Common/10.0.0.5:80 {
      address 10.0.0.5
    }
  }
}

ltm virtual /Common/my_virtual_server {
  destination /Common/10.0.0.1:80
  ip-protocol tcp
  mask 255.255.255.255
  pool /Common/my_default_pool
  profiles {
    /Common/http { }
    /Common/tcp { }
  }
  rules {
    /Common/my_iRule
  }
  snat automap
}

sys ha-group my_ha_group {
  active-bonus 10
  pools {
    /Common/my_default_pool {
      threshold 2
      weight 20
    }
  }
  trunks {
    my_trunk {
      threshold 1
      weight 20
    }
  }
}
```

-- Exhibit -Refer to the exhibit.



A pair of LTM devices is configured for HA.

What happens if the pool member server with IP address 10.0.0.4 becomes totally unresponsive to the active LTM device, but is still responsive to the standby LTM device?

- A. The HA-group will disable the trunk my\_trunk.
- B. The HTTP application will be unavailable via the LTM device.
- C. The HA-group will initiate a fail-over because the threshold is set to 2.
- D. The HA-group will initiate a fail-over because the HA-Group score will be zero.

Correct Answer: C

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