



301B^{Q&As}

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

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QUESTION 1

An LTM Specialist troubleshooting an issue looks at the following /var/log/ltn entries:

Oct 2 04:52:42 slot1/tmm7 crit tmm7[21734]: 01010201:2: Inet port exhaustion on 10.143.109.5 to 10.143.147.150:53 (proto 17)

Oct 2 05:37:16 slot1/tmm7 crit tmm7[21734]: 01010201:2: Inet port exhaustion on 10.143.109.5 to 10.143.147.150:53 (proto 17)

Oct 2 05:57:32 slot1/tmm2 crit tmm2[21729]: 01010201:2: Inet port exhaustion on 10.143.109.5 to 10.143.147.150:53 (proto 17)

Oct 2 06:30:03 slot1/tmm7 crit tmm7[21734]: 01010201:2: Inet port exhaustion on 10.143.109.5 to 10.143.147.150:53 (proto 17)

Oct 2 06:37:44 slot1/tmm2 crit tmm2[21729]: 01010201:2: Inet port exhaustion on 10.143.109.5 to 10.143.147.150:53 (proto 17)

Oct 2 06:47:05 slot1/tmm5 crit tmm5[21732]: 01010201:2: Inet port exhaustion on 10.143.109.5 to 10.143.147.150:53 (proto 17)

Which configuration item should the LTM Specialist review to fix the issue?

- A. SNAT Pool
- B. Pool Member
- C. Port Lockdown
- D. Virtual Server Port Translation

Correct Answer: A

QUESTION 2

-- Exhibit



Client IP address: 10.0.0.1
Virtual Server: 11.0.0.1
Web Server: 12.0.0.1

Capture taken on Web server interface eth1:12.0.0.1

```
01:35:35.141396 IP 10.0.0.1.35285 > 12.0.0.1.http: S 3230388980:3230388980(0) win 8192 <msg 1416,nop,wscale 8,nop,sackOK>
01:35:35.141466 IP 12.0.0.1.http > 10.0.0.1.35285: S 2242263384:2242263384(0) ack 3230388981 win 5840 <msg 1460,nop,nop,sackOK,nop,wscale 4>
01:35:35.177621 IP 10.0.0.1.25079 > 12.0.0.1.http: P 3570570638:3570571021(383) ack 1931745822 win 255
01:35:35.184475 IP 12.0.0.1.http > 10.0.0.1.25079: . 1:1417(1416) ack 383 win 700
01:35:35.184517 IP 12.0.0.1.http > 10.0.0.1.25079: . 1417:2833(1416) ack 383 win 700
01:35:35.184533 IP 12.0.0.1.http > 10.0.0.1.25079: P 2833:3905(1072) ack 383 win 700
01:35:35.297647 IP 10.0.0.1.35285 > 12.0.0.1.http: . ack 1 win 66
01:35:35.337992 IP 10.0.0.1.25079 > 12.0.0.1.http: . ack 2833 win 259
01:35:35.539349 IP 10.0.0.1.25079 > 12.0.0.1.http: . ack 3905 win 255
01:35:38.945404 IP 12.0.0.1.http > 10.0.0.1.35285: S 2242263384:2242263384(0) ack 3230388981 win 5840 <msg 1460,nop,nop,sackOK,nop,wscale 4>
01:35:39.096377 IP 10.0.0.1.35285 > 12.0.0.1.http: . ack 1 win 66 <nop,nop,sack 1 {0:1}>
```

Capture taken on LTM interface 0.0

```
17:32:30.828126 IP 10.0.0.1.10120 > 11.0.0.1.http: S 3414174673:3414174673(0) win 8192 <msg 1416,nop,wscale 2,nop,nop,sackOK> in slot1/tmm0 lis=
17:32:30.828172 IP 11.0.0.1.http > 10.0.0.1.10120: S 1751596785:1751596785(0) ack 3414174674 win 4248 <msg 1460,nop,wscale 0,sackOK,eol> out slot1/tmm0 lis=/Common/my_virtual
17:32:30.982747 IP 10.0.0.1.10120 > 11.0.0.1.http: . ack 1 win 16638 in slot1/tmm0 lis=/Common/my_virtual
17:32:30.982820 IP 10.0.0.1.10120 > 11.0.0.1.http: P 1:560(559) ack 1 win 16638 in slot1/tmm0 lis=/Common/my_virtual
17:32:30.982871 IP 10.0.0.1.10120 > 12.0.0.1.http: S 2896210787:2896210787(0) win 4380 <msg 1460,nop,wscale 0,sackOK,eol> out slot1/tmm0 lis=/Common/my_virtual
17:32:30.982878 IP 11.0.0.1.http > 10.0.0.1.10120: . ack 560 win 4807 out slot1/tmm0 lis=/Common/my_virtual
17:32:33.982895 IP 10.0.0.1.10120 > 12.0.0.1.http: S 2896210787:2896210787(0) win 4380 <msg 1460,nop,wscale 0,sackOK,eol> out slot1/tmm0 lis=/Common/my_virtual
17:32:37.182627 IP 10.0.0.1.10120 > 12.0.0.1.http: S 2896210787:2896210787(0) win 4380 <msg 1460,nop,wscale 0,sackOK,eol> out slot1/tmm0 lis=/Common/my_virtual
17:32:40.382728 IP 10.0.0.1.10120 > 12.0.0.1.http: S 2896210787:2896210787(0) win 4380 <msg 1460,sackOK,eol> out slot1/tmm0 lis=/Common/my_virtual
17:32:43.582864 IP 11.0.0.1.http > 10.0.0.1.10120: R 1:55(54) ack 560 win 4807 out slot1/tmm0 lis=/Common/my_virtual
```

-- Exhibit -

Refer to the exhibit.

A pair of LTM devices are configured for HA. The LTM Specialist observes from a capture that there is a successful connection from a client directly to a web server and an unsuccessful connection from a client via the LTM device to the same

web server.

Which two solutions will solve the configuration problem? (Choose two.)

- A. Configure SNAT on the pool.
- B. Configure SNAT on the virtual server.
- C. Change server default gateway to point at LTM internal self IP.
- D. Change server default gateway to point at LTM internal floating IP.

Correct Answer: BD

QUESTION 3

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

QUESTION 4

An LTM Specialist is troubleshooting an issue with a new virtual server. When connecting through the virtual server, clients receive the message "Unable to connect" in the browser, although connections directly to the pool member show the

application is functioning correctly.

The LTM configuration is:

```
ltm virtual /Common/vs_https {  
  destination /Common/10.10.1.110:443  
  ip-protocol udp  
  mask 255.255.255.255  
  pool /Common/pool_https  
  profiles {  
    /Common/udp { }  
  }  
  translate-address enabled  
  translate-port enabled  
  vlans-disabled  
}  
ltm pool /Common/pool_https {  
  members {  
    /Common/172.16.20.1:443 {  
      address 172.16.20.1  
    }  
  }  
}
```

How should the LTM Specialist resolve this issue?



- A. Remove an HTTP monitor from the pool.
- B. Add an HTTP profile to the virtual server.
- C. Enable the pool member on the correct VLAN.
- D. Select the correct protocol for the virtual server.

Correct Answer: D

QUESTION 5

Which two alerting capabilities can be enabled from within an application visibility reporting (AVR) analytics profile?
(Choose two.)

- A. sFlow
- B. SNMP
- C. e-mail
- D. LCD panel alert
- E. high speed logging (HSL)

Correct Answer: BC

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