Hi everybody,

I have difficult time when configure load balancing for kamailio servers, i'm very appreciated if you help me figure out the problem.

I want to setup the system as following:

Load balancer
Private IP: 172.31.11.35
Public IP: 35.166.179.244
Host name: ec2-35-166-179-244.us-west-2.compute.amazonaws.com

SIP Server
Private IP: 172.31.13.113
Public IP: 35.166.152.104
Host name: ec2-35-166-152-104.us-west-2.compute.amazonaws.com

Both Load Balancer (LB) and Sip Server (SIP) run on Amazon EC2, (LB) using dispatcher module.
I enclose here config files for both (LB) and (SIP). Please view the files attached.

Figure (1) is what i saw when run **kamctl dispatcher dump:**

```
[root@ip-172-31-11-35:/opt/sqlcluster# /usr/local/sbin/kamctl dispatcher dump
SET_NO:: 1
SET:: 1
        URI:: sip:172.31.13.113:5060;transport=udp flags=AX priority=0 attrs=abc=xyz
```

Figure (1)

I created 2 users with following information (extract from mysql cluster database, table **subscriber**):

```
+----+--------------+-------------------------------------------------+--
| id | username     | domain                                          |
+----+--------------+-------------------------------------------------+--
| 70 | nguyenhuan   | ec2-35-166-179-244.us-west-2.compute.amazonaws.com |
| 71 | huancomputer | ec2-35-166-179-244.us-west-2.compute.amazonaws.com |
+----+--------------+-------------------------------------------------+--
```

Figure (2)

Then use sip client (Linphone) connect to (LB), registration is success, below is records from location table:

```
+--------------+--------+-------------------------------------------------+
| username     | domain | contact                                         |
+--------------+--------+-------------------------------------------------+
| huancomputer | NULL   | sip:huancomputer@14.161.41.70:64166;transport=udp |
| nguyenhuan   | NULL   | sip:nguyenhuan@14.161.41.70:33267;transport=udp   |
+--------------+--------+-------------------------------------------------+
```

Figure (3)

But i can't make call between 2 users. Below is data i get from wireshark:

Load Balancer:

Source	Destination	Protocol	Info
14.161.41.70	172.31.11.35	SIP/SDP	Request: INVITE sip:nguyenhuan@ec2-35-166-179-244.us-west-2.com
172.31.11.35	14.161.41.70	SIP	Status: 100 trying -- your call is important to us |
172.31.11.35	172.31.13.113	SIP/SDP	Request: INVITE sip:nguyenhuan@ec2-35-166-179-244.us-west-2.com
172.31.13.113	172.31.11.35	SIP	Status: 100 trying -- your call is important to us |
14.161.41.70	172.31.11.35	SIP	Request: REGISTER sip:ec2-35-166-179-244.us-west-2.compute.amaz
172.31.11.35	172.31.13.113	SIP	Request: REGISTER sip:ec2-35-166-179-244.us-west-2.compute.amaz
172.31.13.113	172.31.11.35	SIP	Status: 200 OK (1 binding) |
172.31.11.35	14.161.41.70	SIP	Status: 200 OK (1 binding) |
14.161.41.70	172.31.11.35	SIP	Request: REGISTER sip:ec2-35-166-179-244.us-west-2.compute.amaz
172.31.11.35	172.31.13.113	SIP	Request: REGISTER sip:ec2-35-166-179-244.us-west-2.compute.amaz
172.31.13.113	172.31.11.35	SIP	Status: 200 OK (1 binding) |
172.31.11.35	14.161.41.70	SIP	Status: 200 OK (1 binding) |
172.31.11.35	14.161.41.70	SIP	Status: 408 Request Timeout |
172.31.11.35	172.31.13.113	SIP	Request: CANCEL sip:nguyenhuan@ec2-35-166-179-244.us-west-2.com
172.31.13.113	172.31.11.35	SIP	Status: 200 canceling |

Figure(4)

SIP Server:

Source	Destination	Protocol	Info
172.31.11.35	172.31.13.113	SIP/SDP	Request: INVITE sip:nguyenhuan@ec2-35-166-179-244.us-west-2.comput
172.31.13.113	172.31.11.35	SIP	Status: 100 trying -- your call is important to us |
172.31.13.113	14.161.41.70	SIP/SDP	Request: INVITE sip:nguyenhuan@14.161.41.70:33267;transport=udp |
172.31.13.113	14.161.41.70	SIP/SDP	Request: INVITE sip:nguyenhuan@14.161.41.70:33267;transport=udp |
172.31.13.113	14.161.41.70	SIP/SDP	Request: INVITE sip:nguyenhuan@14.161.41.70:33267;transport=udp |
172.31.13.113	14.161.41.70	SIP/SDP	Request: INVITE sip:nguyenhuan@14.161.41.70:33267;transport=udp |
172.31.13.113	14.161.41.70	SIP/SDP	Request: INVITE sip:nguyenhuan@14.161.41.70:33267;transport=udp |
172.31.13.113	14.161.41.70	SIP/SDP	Request: INVITE sip:nguyenhuan@14.161.41.70:33267;transport=udp |
172.31.13.113	14.161.41.70	SIP/SDP	Request: INVITE sip:nguyenhuan@14.161.41.70:33267;transport=udp |
172.31.13.113	14.161.41.70	SIP/SDP	Request: INVITE sip:nguyenhuan@14.161.41.70:33267;transport=udp |
172.31.13.113	14.161.41.70	SIP/SDP	Request: INVITE sip:nguyenhuan@14.161.41.70:33267;transport=udp |
172.31.11.35	172.31.13.113	SIP	Request: REGISTER sip:ec2-35-166-179-244.us-west-2.compute.amazona
172.31.13.113	172.31.11.35	SIP	Status: 200 OK (1 binding) |
172.31.13.113	14.161.41.70	SIP/SDP	Request: INVITE sip:nguyenhuan@14.161.41.70:33267;transport=udp |
172.31.13.113	14.161.41.70	SIP/SDP	Request: INVITE sip:nguyenhuan@14.161.41.70:33267;transport=udp |

Figure (5)

I also enclose 2 files export from wireshark for detail information.