Configuration Notes for Loadbalancer.org
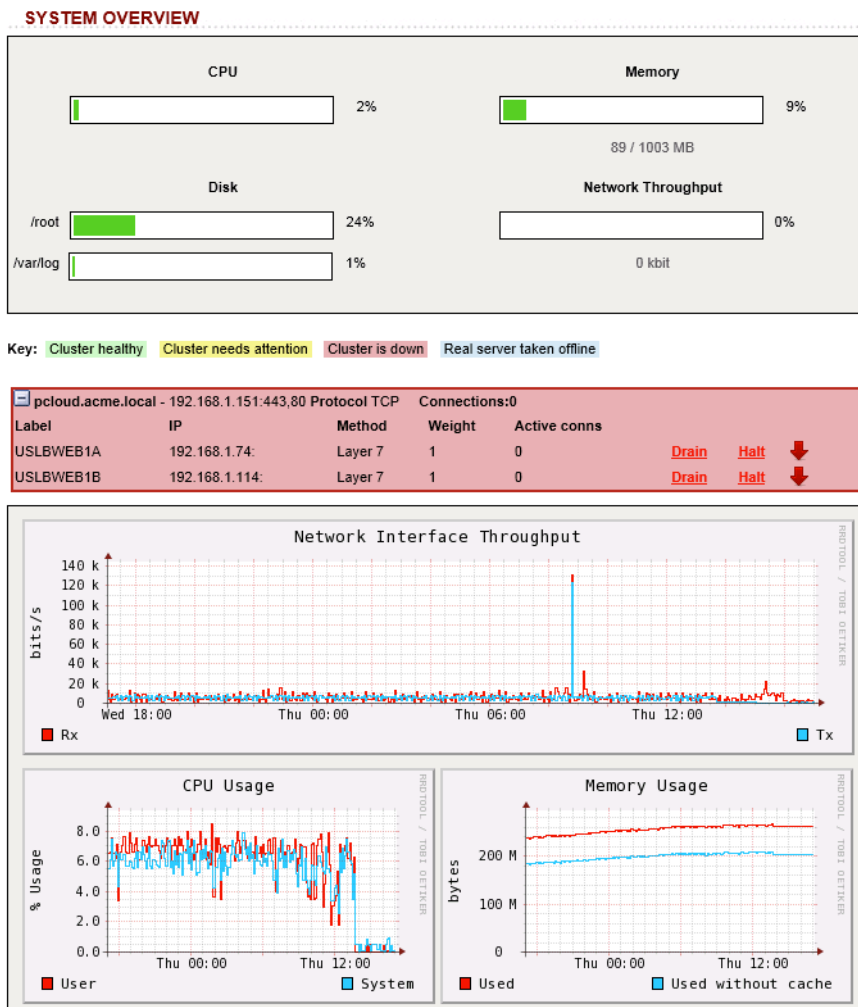April 4th, 2013

Layer 7 configurations, using two "real servers" with one "VIP"

USLBWEB1A.acme.local   192.168.1.74
USLBWEB1B.acme.local   192.168.1.114

FQDN for VIP pcloud.acme.local resolves to 192.168.1.151

Loadbalancer.org is a front end GUI leveraging HAProxy. A 30-day trial key is available for download.

Summary Screen (pic taken when real servers offline)

Configuration of the VIP.

| System Overview |
| View Configuration |
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| Maintenance |
| Reports |
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| Support |

EDIT CONFIGURATION > VIRTUAL SERVERS (HAPROXY)

Label	pcloud.acme.local
Virtual Server IP address	192.168.1.151
Virtual Server Ports	443,80
Layer 7 Protocol	Other TCP
Persistence mode	Source IP
Balance mode	Weighted Least Connections
Timeout	30
Table Size	10240
Fallback Server	127.0.0.1
Fallback Server Port	9081
Fallback Server Persistence	☐
Check Port	
Request to send	
Response expected	
Maximum Connections	40000
Application Cookie Name	
Application Cookie Length	characters
Application Cookie Hold Time	ms
Set X-Forward-For header	☐

[Update]

Configuration of a Real Server

Master | Slave   Active | Passive   Link

| System Overview |
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EDIT CONFIGURATION > REAL SERVERS (HAPROXY)

Label	USLBWEB1A
Real Server IP Address	192.168.1.74
Real Server Port	
Weight	1
Minimum Connections	0
Maximum Connections	0

[Update]

EDIT CONFIGURATION > REAL SERVERS (HAPROXY)

pcloud.acme.local	192.168.1.151	Ports 443,80	[Add a new Real Server]		
USLBWEB1A	192.168.1.74	Ports 443,80	Weight 1	[**Modify**]	[**Delete**]
USLBWEB1B	192.168.1.114	Ports 443,80	Weight 1	[**Modify**]	[**Delete**]

Configuration of advanced features on Layer 7

Master | Slave   Active | Passive   Link

System Overview
View Configuration
Edit Configuration
Layer 4 - Virtual Servers
Layer 4 - Real Servers
Layer 4 - Advanced Configuration
Layer 7 - Virtual Servers
Layer 7 - Real Servers
Layer 7 - Advanced Configuration
SSL Termination
SSL - Advanced Configuration
Heartbeat Configuration
Floating IPs
Hostname & DNS
Network Interface Configuration
Routing
System date & time
Physical - Advanced Configuration
Setup Wizard
Execute shell command
Maintenance
Reports
Logs
Support

EDIT CONFIGURATION > ADVANCED CONFIGURATION (HAPROXY)

Layer 7 (HAProxy):

Logging	on
Log Only Errors	off
Redispatch	on
Connection Timeout	4000
Client Timeout	42000
Real Server Timeout	43000
Maximum Connections	40000
Ulimit	
Abort on Close	on
Transparent Proxy	off
Interval	2000
Rise	2
Fall	3
Statistics Password	
Statistics Port	7777
Health check buffer length	
Persistance Table Replication	off
Persistence Table Replication port	7778
Disable HAProxy Config Write	off

HAProxy output on configuration

VIEW CONFIGURATION > LAYER 7

```
# HAProxy configuration file generated by loadbalancer.org appliance
global
        daemon
        stats socket /var/run/haproxy.stat mode 600 level admin
        pidfile /var/run/haproxy.pid
        log /dev/log local4
        maxconn 40000
        ulimit-n 81000
defaults
        mode http
        balance roundrobin
        timeout connect 4000
        timeout client 42000
        timeout server 43000
        log global
peers loadbalancer_replication
        peer lbmaster localhost:7778
        peer lbslave localhost:7778
listen pcloud.acme.local
        bind 192.168.1.151:443,192.168.1.151:80
        mode tcp
        balance leastconn
        server backup 127.0.0.1:9081 backup  non-stick
        stick-table type ip size 10240k expire 30m peers loadbalancer_replication
        stick on src
        option redispatch
        option abortonclose
        maxconn 40000
        log global
        option tcplog
        server USLBWEB1A 192.168.1.74  weight 1  check port 443  inter 2000  rise 2  fall 3 minconn 0  maxconn 0 on-marked-down shutdown-sessions
        server USLBWEB1B 192.168.1.114  weight 1  check port 443  inter 2000  rise 2  fall 3 minconn 0  maxconn 0 on-marked-down shutdown-sessions
listen stats :7777
        stats enable
        stats uri /
        option httpclose
        stats auth loadbalancer:loadbalancer
```