

ALOHA LOAD BALANCER LOAD BALANCING DNS SERVICE

"APPNOTE" #0047 — LOAD BALANCING DNS SERVICE

This application note is intended to help you to configure the Aloha to load-balance Domain Name Servers (DNS).

REQUIREMENTS

You must have at least 2 DNS servers.

PURPOSE

Ensure high availability of a DNS service.

Reduce DNS resolution latency when the first DNS server is failing.

COMPLEXITY

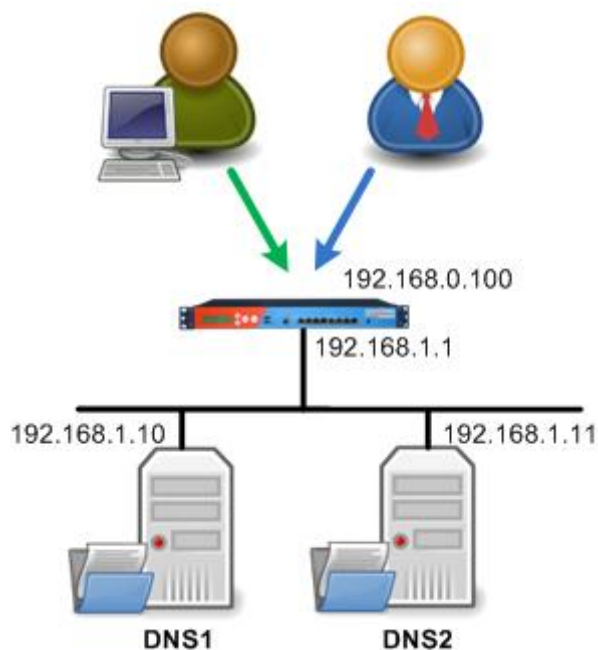


VERSIONS CONCERNED

V 4.1 and above

TARGET NETWORK DIAGRAM

Standard architecture, as bellow:



CONTEXT

The clients will use the DNS service on the IP 192.168.0.100.

The Aloha load balance traffic to the two DNS servers 192.168.1.10 and 192.168.1.11.

The Aloha is configured in NAT mode using LVS/layer 4 load balancing service.

LAYER 4 LB CONFIGURATION


On the GUI, click on **LB Layer 4 tab**, then add the configuration below:

```
director dns 192.168.0.100:53
  balance roundrobin
  mode nat
  check timeout 2 interval 5
  option tcpcheck
  server server1 192.168.1.10:53 weight 10 check
  server server2 192.168.1.11:53 weight 10 check
```

Click on **[OK]**, then **[Apply]**.


Note: you need to allow TCP protocol on your DNS server for the health check.

LVS SERVICE CONFIGURATION

If your **lvs** service is not configured to automatic startup when the Aloha boots up, then go in the **Service** tab of the GUI and click on the **lvs** setup icon .

If there is a line "no autostart", then delete it.

Click on **[OK]** then **[Close]**

Then restart the **lvs** service by clicking on the restart icon .