PDNSLOADBLANCER

Traffic Manager (Locally)

INTO TO PDNSLOADBALANCER

A Stateless service built on top of pdns.

All state stored in pdns.

Implemented as a linux service.

Any pdns dns entry that has multiple servers will be "load balanced", by a combiniation of round robin by pdns, and if down, by pdnsloadbalancer.

HOW IT WORKS

Pdnsloadbalancer using rest, gathers a list of hosts with mulitple entries.

Each of those hosts is then pinged, if up, its enabled, if down, its entry is disabled.

All hosts are static addressed via dhcp

RUNNING

```
2020/03/02 11:02:16 api-int.gw.lo. – 192.168.1.202 changed state to true
2020/03/02 11:02:16 api-int.gw.lo. – 192.168.1.203 changed state to true
2020/03/02 11:02:16 api.gw.lo. – 192.168.1.202 changed state to true
2020/03/02 11:02:16 api.gw.lo. – 192.168.1.203 changed state to true
2020/03/02 11:02:56 api-int.gw.lo. – 192.168.1.201 changed state to true
2020/03/02 11:02:56 api.gw.lo. – 192.168.1.201 changed state to true
2020/03/02 11:03:16 api-int.gw.lo. – 192.168.1.200 changed state to true
2020/03/02 11:03:16 api.gw.lo. – 192.168.1.200 changed state to true
2020/03/02 11:05:38 api-int.gw.lo. – 192.168.1.203 changed state to false
2020/03/02 11:05:38 api-int.gw.lo. – 192.168.1.202 changed state to false
2020/03/02 11:05:38 api.gw.lo. – 192.168.1.202 changed state to false
2020/03/02 11:05:38 api.gw.lo. – 192.168.1.203 changed state to false
2020/03/02 11:06:03 api-int.gw.lo. – 192.168.1.202 changed state to true
2020/03/02 11:06:03 api-int.gw.lo. – 192.168.1.203 changed state to true
2020/03/02 11:06:03 api.gw.lo. – 192.168.1.202 changed state to true
2020/03/02 11:06:03 api.gw.lo. – 192.168.1.203 changed state to true
2020/03/02 11:09:39 api.gw.lo. – 192.168.1.201 changed state to false
2020/03/02 11:09:39 api-int.gw.lo. – 192.168.1.201 changed state to false
2020/03/02 11:11:15 api-int.gw.lo. – 192.168.1.203 changed state to false
2020/03/02 11:11:15 api.gw.lo. – 192.168.1.203 changed state to false
2020/03/02 11:12:25 api-int.gw.lo. – 192.168.1.203 changed state to true
2020/03/02 11:12:25 api.gw.lo. – 192.168.1.203 changed state to true
2020/03/02 11:12:46 api-int.gw.lo. – 192.168.1.202 changed state to false
2020/03/02 11:12:46 api.gw.lo. – 192.168.1.202 changed state to false
2020/03/02 11:13:06 api-int.gw.lo. – 192.168.1.202 changed state to true
2020/03/02 11:13:06 api.gw.lo. – 192.168.1.202 changed state to true
2020/03/02 11:20:51 api-int.gw.lo. – 192.168.1.200 changed state to false
2020/03/02 11:20:51 api.gw.lo. – 192.168.1.200 changed state to false
2020/03/02 11:35:00 api-int.gw.lo. – 192.168.1.201 changed state to false
2020/03/02 11:35:00 api-int.gw.lo. – 192.168.1.202 changed state to false
2020/03/02 11:35:00 api-int.gw.lo. – 192.168.1.203 changed state to false
2020/03/02 11:35:00 api.gw.lo. – 192.168.1.201 changed state to false
2020/03/02 11:35:00 api.gw.lo. – 192.168.1.202 changed state to false
2020/03/02 11:35:00 api.gw.lo. – 192.168.1.203 changed state to false
2020/03/02 11:36:22 api-int.gw.lo. – 192.168.1.200 changed state to true
2020/03/02 11:36:22 api.gw.lo. – 192.168.1.200 changed state to true
```

HOW'S IT IMPLEMENTED

Implemented as a golang executable, making rest calls to pdns.

242 Lines of Go Code

ENHANCEMENTS

There a full open field in pdns, so a rest based health check would be easy to implement. Or even multiple different types. Embedded json has a lot of power.

CODE:

https://github.com/glennswest/pdnsloadbalancer