

It's not DNS



There's no way it's DNS

It was DNS



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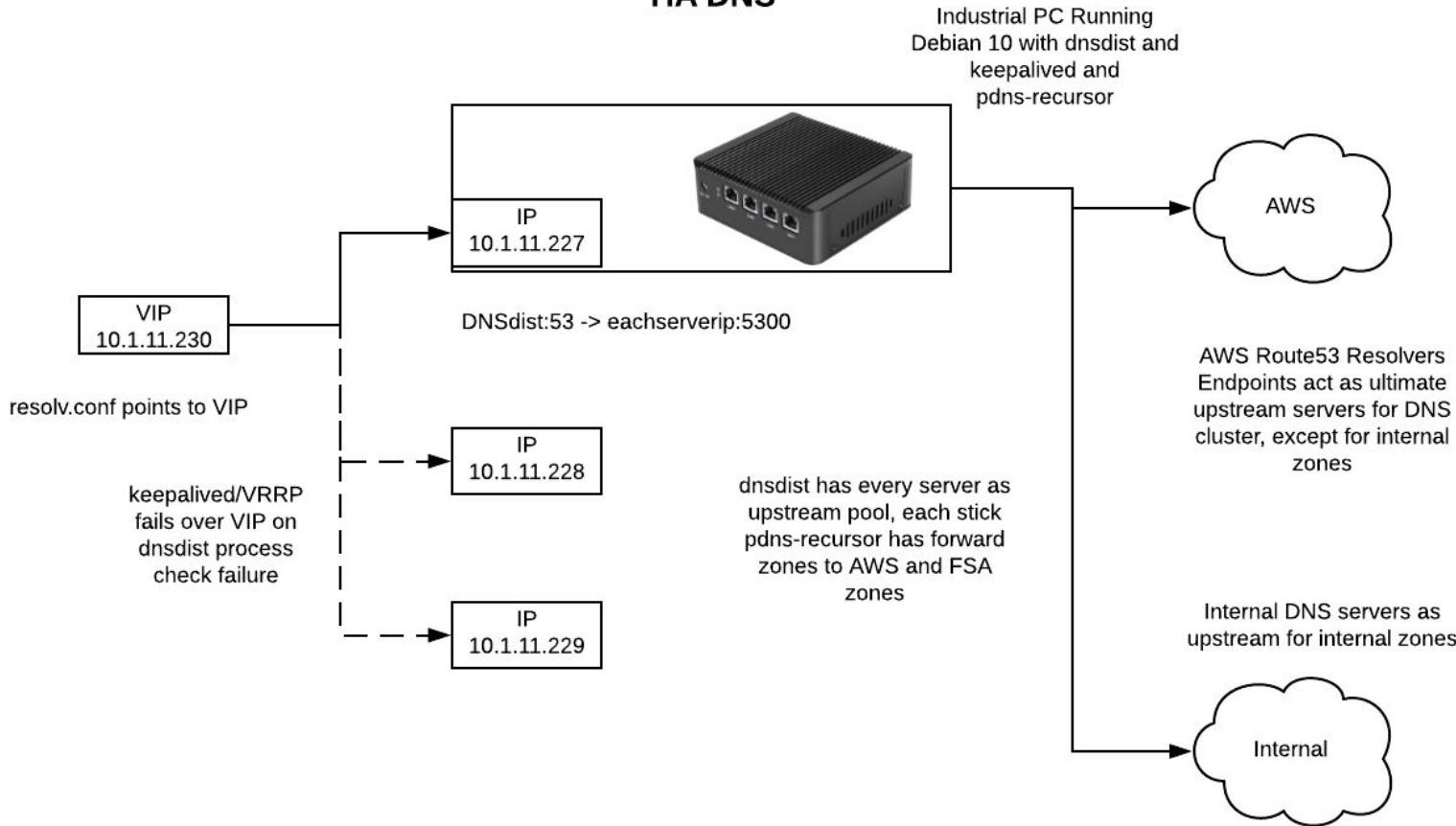
義



The Problem

- Clients inherently suck at failing over DNS resolution
- Low TTLs on target cloud services - no room for errors
- Don't mix recursion and authoritative roles

HA DNS



DNS Dist

- Load balancing DNS proxy
- Working example for below role:

```
dnsdist_install_repo: "{{ dnsdist_powerdns_repo_master }}"
dnsdist_locals: ['0.0.0.0:53']
dnsdist_servers: ['10.1.11.227:5300', '10.1.11.228:5300', '10.1.11.229:5300' ]
dnsdist_webserver_address: "0.0.0.0:8083"
dnsdist_webserver_password: 's00persecr3tpass'
dnsdist_config: "pc = newPacketCache(10000, {maxTTL=86400, minTTL=0,
temporaryFailureTTL=60, staleTTL=60, dontAge=false}); getPool(\"\\\""):setCache(pc)"
```

<https://github.com/PowerDNS/dnsdist-ansible>

PDNS Recursor

- Performs actual recursion, can failover between upstreams too

```
pdns_package_versions: 4.2
pdns_install_repo: "{{ pdns_auth_powerdns_repo_42 }}"
pdns_rec_config:
  allow-from: "10.0.0.0/8"
  local-address: "0.0.0.0:5300"
  forward-zones-file: "/etc/powerdns/forward-zones.conf"
  api-key: "s3cr3tapikey"
  webserver: "yes"
  webserver-address: "0.0.0.0"
  webserver-allow-from: "10.0.0.0/8"
  webserver-password: "s3cr3twebp4ss"
  webserver-port: "8081"
pdns_rec_service_state: "started"
pdns_rec_service_enabled: "yes"
pdns_rec_user: "{{ default_pdns_rec_user }}"
pdns_rec_group: "{{ default_pdns_rec_group }}"
```

https://github.com/PowerDNS/pdns_recursor-ansible

Forward Zones file

- Semi-colon for multiple upstreams for the target forward zone
- Magic +. Means all other zones.

```
internal-zone.com.au=10.1.24.1;10.1.24.2
```

```
other-interzone.com.au=10.1.24.21;10.1.24.22
```

```
+.=10.100.3.158;10.100.3.182,8.8.8.8,1.1.1.1
```