

CoreDNS and Infoblox

COREDNS FEATURES:

- Flexible DNS server written in Go (memory safe and not prone to vulnerabilities like BIND)
- Started and led by Miek Gieben
- Focus on service discovery
- DNS indirection
- Maximum flexibility
- Easy and simple to change DNS
- Pervasive in IT infrastructure
- Distributed in nature
- Can be used for policy-based DNS blocking
- Plugin-based architecture that is easily extensible
- Hybrid Cloud integration with AWS (using Route 53) - future plans for Google Cloud DNS
- Supports DNS, DNS over TLS, DNS over gRPC

CoreDNS Overview

CoreDNS is a project in the Cloud Native Computing Foundation (CNCF). It is a fast, flexible, and modern DNS server that also provides service discovery in cloud-native deployments. It was inceptioned in the CNCF in 2017 and incubated in 2018. It is now included by default as of Kubernetes version 1.13.

In early 2019 CoreDNS achieved graduated status in the CNCF. To reach “Graduated” status, a project must show it has been adopted by multiple organizations, have a documented, structured governance process, and show a strong commitment to community success and inclusivity. Over the last few years, the CoreDNS community has grown to 112 contributors, 16 maintainers, 485 Slack channel members, and 1,260 Twitter followers. There have been 12 releases since incubation, more than 10 million Docker pulls, 29+ public adopters and 3000+ GitHub stars.

CoreDNS and Infoblox

Infoblox has contributed to the development of CoreDNS and currently has 5 engineers actively contributing to its evolution. Infoblox engineers are maintainers as well as contributors. Infoblox brought CoreDNS into the CNCF and drove it through each of the steps (inception/sandbox, incubation and graduation), along with driving it to become the default DNS server in Kubernetes (displacing “kubedns”). Infoblox currently uses CoreDNS in the ActiveTrust Cloud service - both on the server side (i.e., in the cloud) and the client side (i.e., in ActiveTrust Endpoint).

Additional resources:

<https://www.cncf.io/projects/>

<https://www.cncf.io/announcement/2019/01/24/coredns-graduation/>

<https://coredns.io/>

<https://coredns.io/2017/03/01/coredns-for-kubernetes-service-discovery-take-2/>

<https://www.youtube.com/watch?v=hopDaALR8uQ>

