



Speakers





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Agenda





- Introduction
- State of Affairs
- Roadmap
- Plugins
- Configuration (Corefile)
- Use-cases
- Community/Contributing



Introduction





- Flexible DNS server written in Go
- Plugin-based architecture, easily extended
- Supports DNS, DNS over TLS and others
- Started and led by Miek Gieben
- Based on Caddy HTTP server

Introduction





- Focus on service discovery
- Native support of Kubernetes
- Integration with etcd and other data sources incl. AWS's Route 53, Redis, SQL, plain files
- Support for Prometheus metrics
- Forward to recursive DNS server

State of Affairs





- Version 1.5.0 (released 2019-04-07)
- Graduated CNCF project
 - Inception (2017)
 - Incubation (2018)
 - Graduation (2019)
- Growing community
 - 150+ contributors (Big Thanks!)
 - 15 maintainers
 - 30 public adopters
 - ~4000 stars

State of Affairs



- Each plugin is backed by an additional set of OWNERs
- New plugins:
 - Response Rate Limiting (<u>rrl</u>)
 - Block ANY queries (any)
- Kubernetes plugin:
 - Generally available (GA) since Kubernetes 1.11
 - Now the recommended default since Kubernetes 1.13

State: GSoC 2019





Google Summer of Code 2019

- Project ideas: <u>github.com/cncf/soc#coredns</u>
 - > great contribution ideas
- Mentor: Yong Tang (GitHub: @yongtang)





- Core
 - Performance and stability improvements
- Plugin
 - GRPC transport iteration client and server
 - DNS over HTTPS
 - resolver plugin as external plugin (#2216)
 - more plugins

Configuration





Europe 2019

An authoritative DNS server

```
coredns.io {
file coredns.io {
transfer to * 185.49.140.62
}
errors
log
\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\til\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi\text{\text{\text{\text{\\texit{\text{\text{\text{\text{\text{\texi\texi{\text{\texi{\texi\texi{
```

A recursive DNS server

```
    .{
    proxy 8.8.8.8
    cache
    errors
    log
    }
```

Community





Most active:

- GitHub: <u>github.com/coredns/coredns</u>
- Slack: #coredns on slack.cncf.io
- More resources:
 - Web: <u>coredns.io</u>
 - Blog: <u>blog.coredns.io</u>
 - Twitter: @corednsio
 - Mailing list/group (not very active) coredns-discuss@googlegroups.com

Contributions Welcome





- Star CoreDNS at <a href="mailto:github.com/coredns/coredn
- Add your company to ADOPTERS.md
- File bugs and contribute to issue discussions
- Create your first PR for docs or code
- Create a custom plugin for your use-case





THANK YOU



