

NUM

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Open Source

- R&D at Nominet for 10 years
- FOSS libraries include :
 - dnstruby (almost 3 million downloads)
 - OpenDNSSEC (used by many TLDs to sign their zones)
 - dnsjnio (used extensively by high volume mail servers)

Why am I here?

MODL

- Minimal Object Description Language
- Designed with DNS in mind (global, hierarchical distributed database)
- Store any data in a TXT record - especially hierarchical, structured data
- Class files define structured hierarchy for any use case

WHOIS

- Allows whois data to be stored and controlled by the registrants
- No centralised server
- Hugely compacted - all whois data in a single DNS TXT record
- Structure and metadata provided by MODL WHOIS class file

NUM

- Customer facing data
- Defines machine-readable, structured contact information in DNS - much richer than plain WHOIS
- Allows independent record provisioning
- We help those who can't independently provide...

Chicken and Egg

- Nobody publishes NUM if nobody uses NUM
- Nobody uses NUM if nobody publishes NUM
- EGG service - helps adoption

Devops Challenges

- How to fit potentially global internet into cloud DNS
- How to scale to handle billions of queries a day

MODL Links

- <https://github.com/MODLanguage/java-interpreter>
- <https://modl.uk/playground>
- <https://www.deputydns.com/alex/whois-over-dns>

Come and Help!