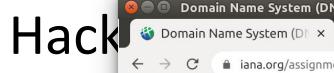
Results from project DNS

IETF 113 19-20 March 2022 Vienna, Austria





Reference

[RFC8914]

Available Formats



Range 🖫 Registration Procedures 0-49151 First Come First Served 49152-65535 Private Use

Extended DNS Error Codes

	Other Error	[RFC8914, Section 4.1]
1 11	In a constant of DNCKEY Almonithms	
1 0	Jnsupported DNSKEY Algorithm	[RFC8914, Section 4.2]
2 U	Insupported DS Digest Type	[RFC8914, Section 4.3]
3 S	Stale Answer	[RFC8914, Section 4.4][RFC8767]
4 F	Forged Answer	[RFC8914, Section 4.5]
5 D	DNSSEC Indeterminate	[RFC8914, Section 4.6]
6 D	DNSSEC Bogus	[RFC8914, Section 4.7]
7 S	Signature Expired	[RFC8914, Section 4.8]
8 S	Signature Not Yet Valid	[RFC8914, Section 4.9]

Domain Name System (DNS) Parameters - Chromium

iana.org/assignments/dns-param...

Extended DNS Errors [RF

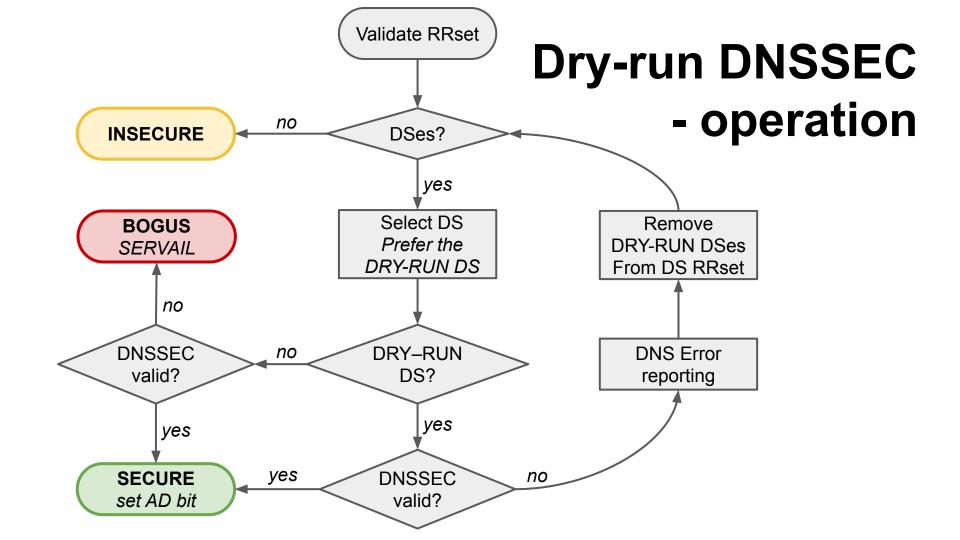
 While implementing More situations came up

Extended DNS Errors [RFC8914]

- While implementing –
 More situations for an EDE info-code emerged
- Registry if First Come First Served
- <u>Draft-carpay-extra-ede-codes-dnssec-bogus</u>

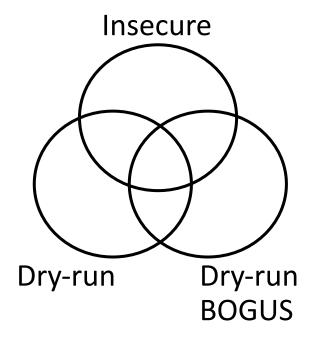
• Discussed between Tom Carpay, Petr Špaček, Libor Peltan, and *

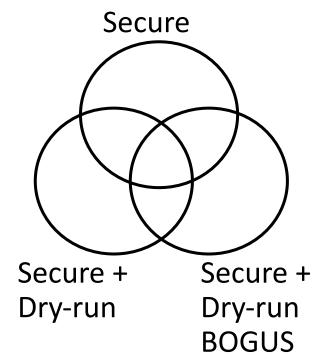
- Dry-run DNSSEC
 - Try out DNSSEC for your zone first, before going live
 - draft-yorgos-dnsop-dry-run-dnssec-00



Dry-run DNSSEC

 RIPE Atlas measurements to measure backwards compatibility by Tom Carpay





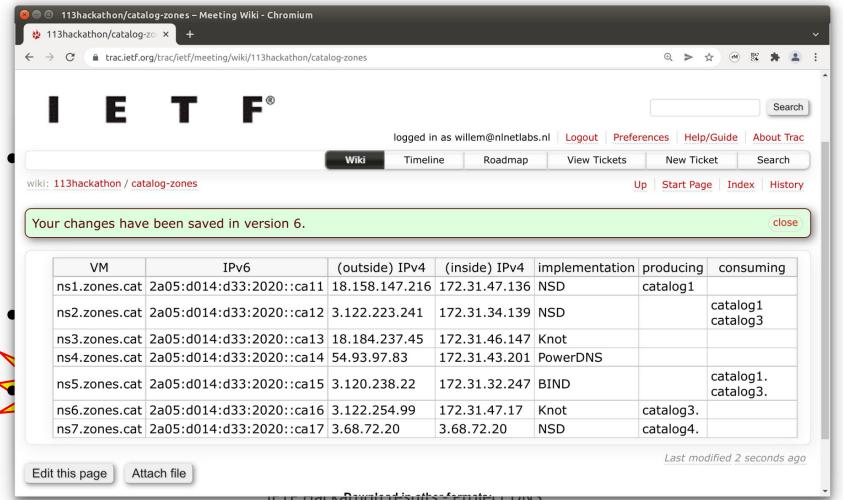
- DNS Catalog Zones
 - draft-ietf-dnsop-dns-catalog-zones-05

Interoperability testing



BIND implementation for draft version!

Petr Špaček, Libor Peltan, Willem Toorop
 IETF Hackathon results - Project DNS



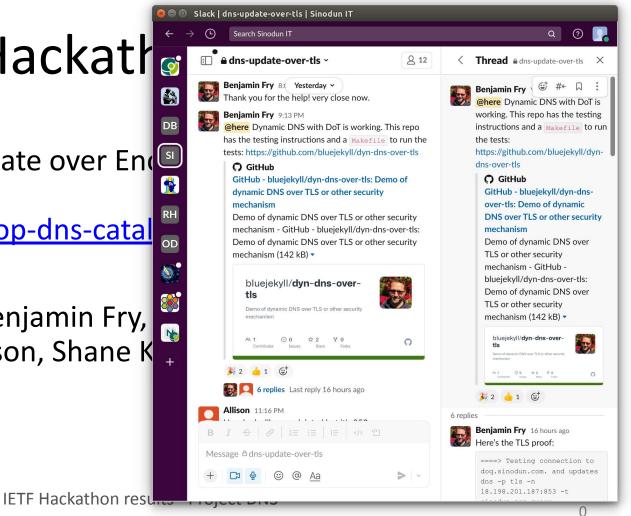
- DNS Dynamic Update over Encrypted Transport (Quic / TLS)
 - draft-ietf-dnsop-dns-catalog-zones-05

 Allison Mankin, Benjamin Fry, Han Zhang, John Dickinson, Pallavi Arres, Sara Dickinson, Shane Kerr, Shivan Kaul Sahib, Sidan Qi, Sile Yang

Hackath

- DNS Dynamic Update over Ends
 - draft-ietf-dnsop-dns-catal

 Allison Mankin, Benjamin Fry, Arres, Sara Dickinson, Shane K Sile Yang



qp-trie for NSD

- patches by Tony Finch, July 2021
- small fast DNS name lookup data structure
- discussion between Tony and NLnetLabs
- updated notes on experimental branches

What got done

- Lots and lots of excellent conversation!
- Open Source DNS Software developers align! (Extra EDEs)
- Developers align with operators!

What we learned

You can't beat an in person hackathon!

Wrap Up

Team members:

Tom Carpay Petr Špaček

Libor Peltan

Willem Toorop

Allison Mankin

Benjamin Fry

Han Zhang

John Dickinson

Pallavi Arres

John Dickinson

Pallavi Arres

Sara Dickinson

Shane Kerr

Shivan Kaul Sahib

Sidan Qi

Sile Yang

Benno Overeinder

more...