DNSOP
DNS Operations

IETF 114
Philadelphia for Reals!
28 July 2022
Welcome to DNSOP

Chairs
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IESG Overlord
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Jabber Room
  o dnsop@jabber.ietf.org
  o This is going away.....

Minutes
  https://notes.ietf.org/notes-ietf-114-dnsop
  Minutes: Paul Hoffman!
This is a reminder of IETF policies in effect on various topics such as patents or code of conduct. It is only meant to point you in the right direction. Exceptions may apply. The IETF's patent policy and the definition of an IETF "contribution" and "participation" are set forth in BCP 79; please read it carefully.

As a reminder:

By participating in the IETF, you agree to follow IETF processes and policies.
If you are aware that any IETF contribution is covered by patents or patent applications that are owned or controlled by you or your sponsor, you must disclose that fact, or not participate in the discussion.
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Personal information that you provide to IETF will be handled in accordance with the IETF Privacy Statement.
As a participant or attendee, you agree to work respectfully with other participants; please contact the ombudsteam if you have questions or concerns about this.
Definitive information is in the documents listed below and other IETF BCPs. For advice, please talk to WG chairs or ADs:

BCP 9 (Internet Standards Process)
BCP 25 (Working Group processes)
BCP 25 (Anti-Harassment Procedures)
BCP 54 (Code of Conduct)
BCP 78 (Copyright)
BCP 79 (Patents, Participation)
(Privacy Policy)
1. Treat colleagues with respect
2. Speak slowly and limit the use of slang
3. Dispute ideas by using reasoned argument
4. Use best engineering judgment
5. Find the best solution for the whole Internet
6. Contribute to the ongoing work of the group and the IETF
IETF Meeting Tips

● In-person participants
  ○ Make sure to sign into the session using the Meetecho (usually the “Meetecho Lite” client) from the Datatracker agenda
  ○ Use Meetecho to join the mic queue
  ○ Keep audio and video off if not using the onsite version
  ○ Wear masks unless actively speaking at the microphone

● Remote participants
  ○ Make sure your audio and video are off unless you are chairing or presenting during a session
  ○ Use of a headset is strongly recommended
Agenda
Agenda

- Agenda, Blue Sheets, etc

- Warren Speaks!
  Warren Kumari, 10 min

- Updates of Old Work, Chairs

- Hackathon Results

- Working Group Business, et al
Agenda: Current Business

DNS Security Extensions (DNSSEC) BCP
Paul Hoffman, 15min

Recommendations for DNSSEC Resolvers Operators
Daniel Migault, 15min

Survey of Domain Verification Techniques using DNS
Shivan Kaul Sahib, 15min
Agenda: For Consideration

dry-run DNSSEC
  Yorgos Thessalonikefs, 15min

Initializing a DNS Resolver with Priming Queries
  Paul Hoffman, 15min
Agenda: Time Permitting

Structured Data for Filtered DNS
Dan Wing, 10min

Recent results on measuring the end-to-end success rate of DNSSEC and new record types
Eric Rescorla, 10min

CDS/CDNSKEY Consistency
Peter Thomassen
DNS-directorate

Éric Vyncke, INT AD
Warren Kumari, OPS AD
DNS topics appear in many WG

Tim Wicinski collected some data since April 10, 2022 (arbitrary) for I-Ds having “dns” in name or abstract [*]:

59 existing I-Ds including 25 existing WG I-Ds: 13 dnsop, 3 dnssd, 3 add, 2 drip, 2 dprive, 1 ipsecme, 1 homenet

So, not only ‘DNS-related’ WGs are relying on DNS, others are perhaps badly understanding the protocol or its operations.

[*] Probably many more are using DNS
Non WG Documents

draft-boucadair-opsawg-add-encrypted-dns
draft-brand-indicators-for-message-identification
draft-cuiling-dnsop-sm2-alg
draft-dashevskyi-dnsrr-antipatterns
draft-dkg-intarea-dangerous-labels
draft-duke-httpbis-quic-version-alt-svc
draft-duke-quic-protected-initial
draft-eastlake-dnsop-rrtype-srv6
draft-eastlake-dnsop-svcb-rr-tunnel
draft-farrell-tls-wksesni
draft-hallambaker-mesh-udf
draft-hallambaker-web-service-discovery
draft-homburg-add-codcp
draft-hsyu-dnsop-message-fragments
draft-hsyu-message-fragments
draft-hsyu-dnsop-message-fragments
draft-hsyu-message-fragments
draft-hunek-v6ops-nat64-srv
draft-klh-dnsop-rfc8109bis
draft-lemon-srp-replication
draft-lenders-dns-over-coap
draft-muks-dnsop-message-fragments
draft-pauly-ohai-svcb-config
draft-rebs-dnsop-svcb-dane
draft-reddy-add-enterprise-split-dns
draft-reddy-add-resolver-info
draft-schanzen-gns
draft-schwartz-add-ddr-forwarders
draft-shuangli-dnsop-update-of-dns-cache
draft-thomassen-dnsop-cds-consistency
draft-tllq-tsr
draft-wilson-dance-architecture
draft-wing-dnsop-structured-dns-error-page
draft-yan-ipwave-nd
draft-yorgos-dnsop-dry-run-dnssec
draft-yu-dnsops-disdm
DNS-directorate for reviews by DNS expert

The IESG + add/dnsop/dnssd/dprive chairs have agreed to create a DNS directorate after IETF-114.

Main item on the charter: (early) reviews of IDs from a DNS point of view

Next steps (before 1st September 2022)

- Small group of reviewers, we are looking for volunteers.
- Looking for 2 directorate secretaries in charge of a weekly check of pending reviews, assigning reviews, …
Example, riffing on the OPS-DIR disclaimer:

I have reviewed this document as part of the DNS Directorate's ongoing effort to review all IETF documents being processed by the IESG. These comments were written primarily for the benefit of the area directors. Document editors and WG chairs should treat these comments just like any other last call comments.
Document Updates
Since Our Last Meeting

- draft-ietf-dnsop-nsec3-guidance RFC9276

RFC Editor Queue

- draft-ietf-dnsop-svcb-https
  - There's been some more updates in the repo
Document Status

Post Working Group Last Call

draft-ietf-dnsop-rfc5933-bis
  Updated this morning, need to review

In Working Group Last Call

draft-ietf-dnsop-avoid-fragmentation
  3 Weeks, please send comments
Document Status

Upcoming Working Group Last Calls

● **draft-ietf-dnsop-dnssec-bcp**
  ○ This Week

● **draft-ietf-dnsop-glue-is-not-optional**
  ○ Now? September?
Document Status

Upcoming Working Group Last Calls

- **draft-ietf-dnsop-dns-catalog-zones**
  - September

- **draft-ietf-dnsop-dnssec-validator-requirements**
  - September
Document Status

- **draft-ietf-dnsop-ns-revalidation**
  - Only a few outstanding items
  - Shumon getting assistance finishing these "real soon"

- **draft-ietf-dnsop-rfc8499bis**
  - Interim to finalize the bailiwick definitions
  - Either Week of 12th September or 26th September
Document Status

- draft-ietf-dnsop-dns-error-reporting
  - New Version with positive reporting
  - Some initial implementations happening

- draft-ietf-dnsop-zoneversion

- draft-ietf-dnsop-dnssec-automation
  - Adding another author from .SE
  - Also implemented entire protocol

- draft-ietf-dnsop-dnssec-bootstrapping
Document Status

Documents Just Adopted

- draft-ietf-dnsop-domain-verification-techniques
- draft-ietf-dnsop-caching-resolution-failures

Not Yet....

- draft-rebs-dnsop-svcb-dane
  - Needs some more comments on this
What Else Are We Working On?

DataTracker

GitHub
Hackathon Updates
IETF 114 Hackathon: DNSSEC Bootstrapping

- DNSSEC bootstrapping requires special records under the nameserver hostname, like
  _dsboot.example.co.uk._signal.ns1.desec.io. IN CDS ...

- Hackathon plan: Automatically generate these records, either via
  - period cron job, or
  - dynamic synthesis (by nameserver when queried)

- Code results:
  - Python cron job (catalog zone → bootstrap zone) deployed at saltant.net ([Gitlab repo](#))
  - PowerDNS synthesis via LUA records deployed at deSEC ([PR desec-ns#46](#), [video](#))
  - Knot DNS module … still in the works

Thanks to participants John O’Brien, Jerry Lundström, Nils Wisiol, Peter Thomassen
IETF 114 Hackathon: DNS Error Reporting

- Started implementation in Unbound
- Happy path works (+ testing)
- Needs more work for
  - Positive feedback flag (-02)
  - Promiscuous query generation
  - Avoid reporting agent resolution errors
  - More?

Thanks to participants Yorgos Thessalonikefs and Tom Carpay for his preparatory work
Let's Get Started!!