





KINDNS

KINDNS

An Initiative to Promote DNS Operational Best Practices

April 2024

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What Is It?

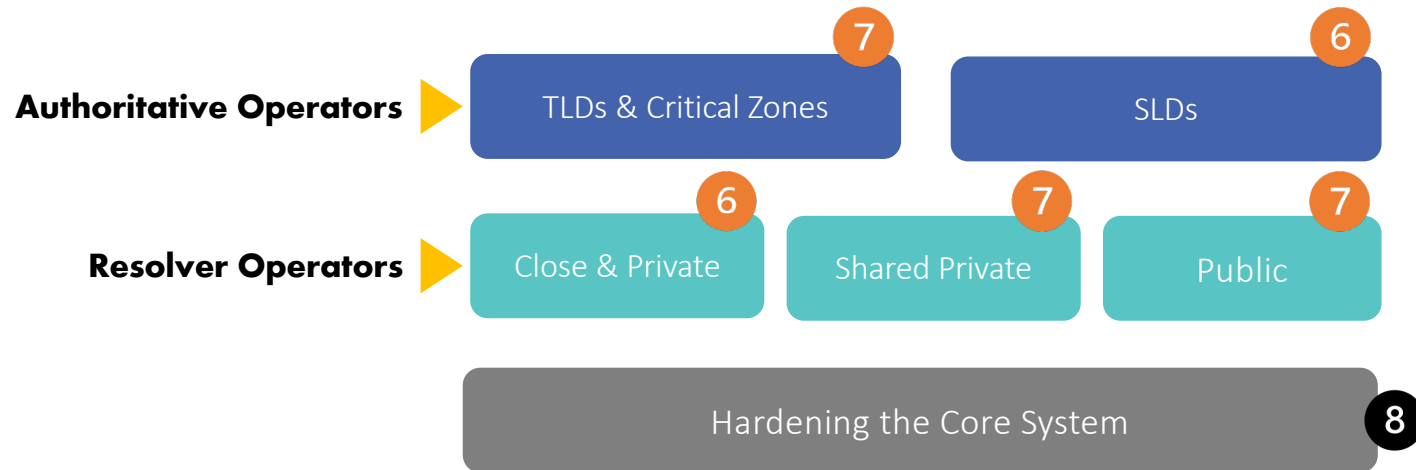
Knowledge-sharing and Instantiating **N**orms for **D**NS
(Domain Name System) and **N**aming **S**ecurity

A simple framework that can help a wide variety of DNS operators, from small to large, to follow both the evolution of the DNS protocol and the best practices that the industry identifies for better security and more effective DNS operations.

..... is pronounced "**kindness**"



Targeted Operators



- Each category has 6-8 practices that we will encourage operators to implement. See www.kindns.org, for more details
- By joining KINDNS, DNS operators are voluntarily committing to adhere to these identified practices and act as “goodwill ambassadors” within the community.

Participation/Enrollment

KINDNS About Operator Categories Support & Engage Tools & Guidelines News Events [Join Us](#)

Participants

Home » Participants

Operators who voluntarily agreed to implement the KINDNS framework can formally join the initiative by filling out the enrollment form. As a member, you are showing your commitment to implementing the practices promoted by KINDNS in your DNS operation and your support for a robust DNS operation generally.

The following organizations and operators have already joined the initiative, either as supporters or as implementers in the different categories.

KINDNS Participants

Organization Name	Date Joined	Private Resolver Operators		Shared Private Resolver Operators			Public Resolver Operators	
		Practice-1	Practice-2	Practice-3	Practice-4	Practice-5	Practice-6	Practice-7
IB Digital Brazil	17 Nov 2023	✓	✓	✓	✓	✓	✓	✓
RNP Brazil – EduDNS	22 Nov 2022	✓	✓	✓	✓	✓	✓	✓
Brazil Tech4r	22 Nov 2022	✓	✓	✓	✓	✓	✓	✓
PowerNet Solutions	07 Dec 2022	✓	✓	✓	✓	✓	✓	✓
Intercel Brazil	18 May 2023	✓	✓	✓	✓	✓	✓	✓
Tempus Group, Paraguay	18 Aug 2023	✓	✓	✓	✓	✓	✓	✓

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PT	03 Oct 2022	✓	✓	✓	✓	✓	✓	✓
Posix (for edu.za)	06 Oct 2022	✓	✓	✓	✓	✓	✓	✓
APNIC	28 Oct 2022	✓	✓	✓	✓	✓	✓	✓
DNS Guru	11 Sept 2023	✓	✓	✓	✓	✓	✓	✓

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High uptake for Self-assessment

3074
Views
Number of times your questionnaire has been opened by someone

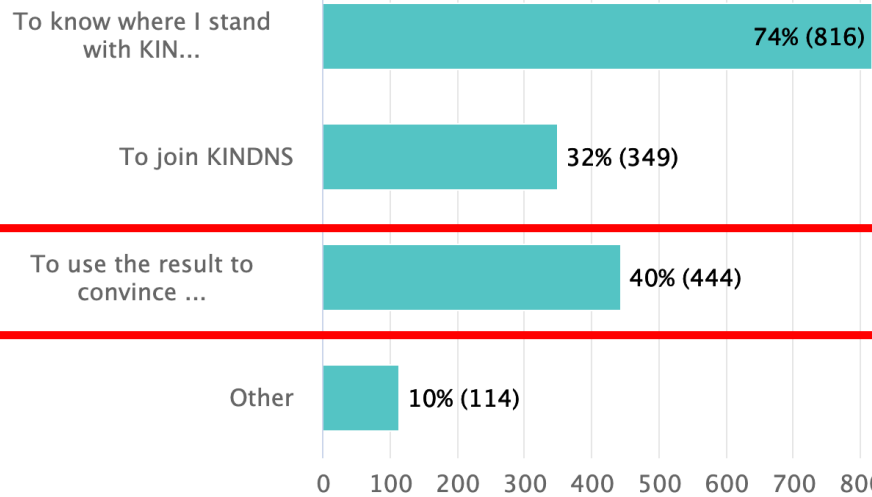
1656
Starts
Number of times someone clicked the start button of the questionnaire

485
Partial responses
Number of responses saved with save and continue, but not finished yet

124
Unfinished responses
Number of times someone exited questionnaire without a complete response

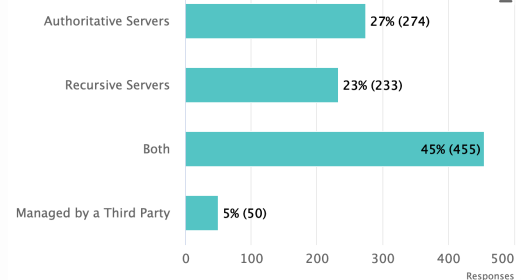
Why are you taking this self-assessment?

Bar chart



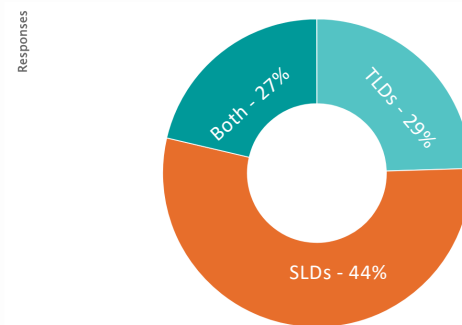
Part 1 Core DNS Operation Practices Assessment - Which component(s) of the DNS do you run?

Bar chart



What Type of Authoritative Zone Do You Manage? - Type(s) of authoritative zone that you manage

Donut chart



What type of Recursive resolvers you run

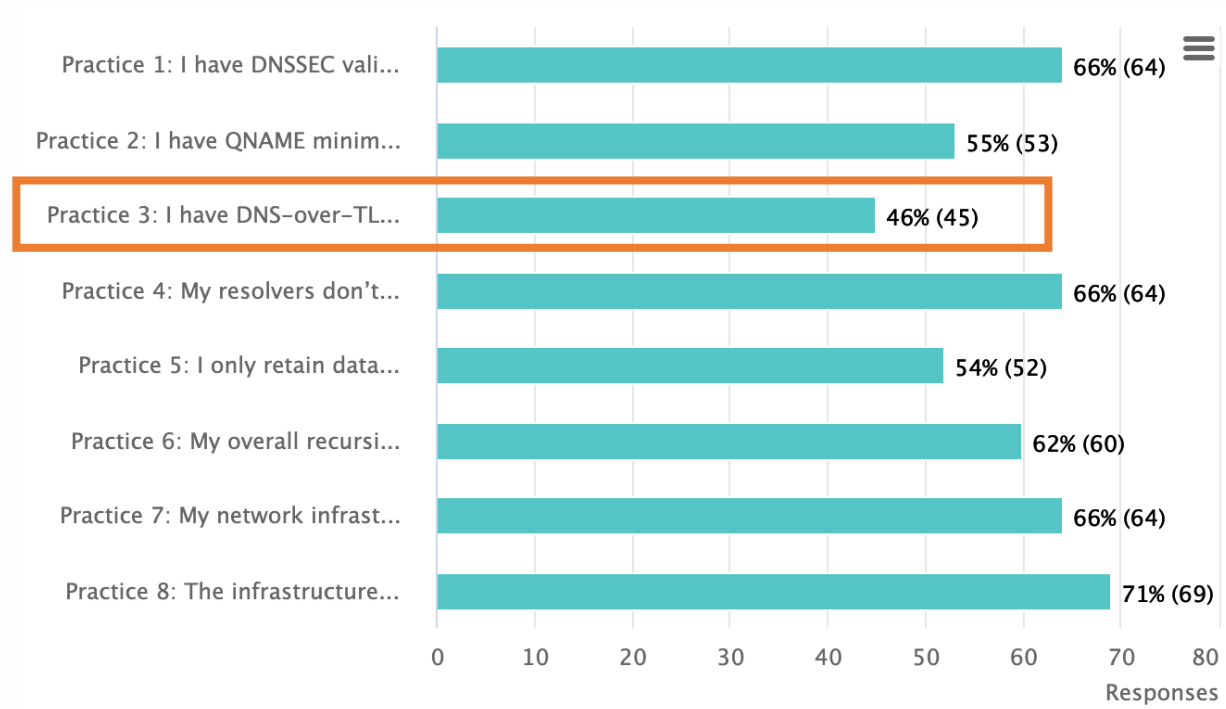
Private Recursive Resolver

Shared Private Resolver

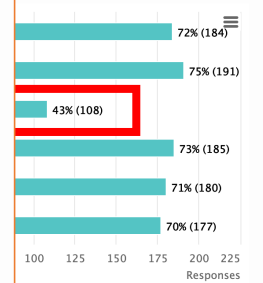
Public Recursive Resolver

As operator of a Public Recursive Resolver, I implement or adhere to the following practices :

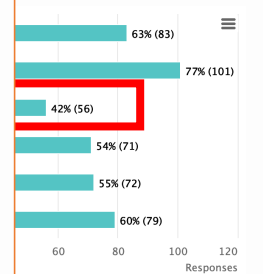
Bar chart



Implement and adhere



Implement or



KINDNS v.2 - Discussion Points

1. **Adding Response Rate Limiting (RRL)** to Authoritative Servers' practice
 - ccTLD and critical Zone Operators
 - Other SLDs too?
2. **Addressing 'Split' responsibilities** for Authoritative servers' operation:
 - Zone file content is controlled by a third party. i.e Root server operators and the root zone itself, or registrars hosting DNS for registrants
3. **Access reliability:** Reachability over IPv6, RPKI for the prefix used for the DNS servers.
4. **Steering Committee and Community review team:**
 - Volunteers to help steer the evolution KINDNS as framework and coordinate the initiative.



Outreach

⦿ Success story

- 70% of enrollment requests comes from LAC region
- **Success Story:** KINDNS adopted by CGI.br as DNS security framework for the country.
- Volunteers from the community to help translate KINDNS


⦿ What we are doing in every region

- More than 20 distinct KINDNS events last year.
- Use KINDNS as the framework for DNS Ecosystem security practices engagement.
- Present KINDNS at technical events (ISPs, DNS Operators, ...).
- **KINDNS Clinics:** 1:1 session with Operators
- Plan training around the implementation of KINDNS practices
- Help keep the KINDNS community alive (Mailing list, soon to be launched Ambassador program, etc...)


KINDNS


KINDNS Clinics

Do you manage a DNS infrastructure?
Or do you have any questions or challenges related to implementing the KINDNS (Knowledge-sharing and Instantiation Norms for DNS and Naming Security) best practices?



If you replied yes, scan this QR code or follow the URL to schedule a private meeting with the KINDNS technical team during this ICANN meeting.

<https://kindnsclinics.sched.com/>

MORE ABOUT KINDNS
(pronounced "kindness")

kindns.org

KINDNS Clinics at ICANN79

Current Focus

Community Engagement

◉ Community engagement

- Continue to encourage operators to get onboard to **contribute and support** the framework:
 - *Direct 1:1 Engagements (KINDNS Clinics) to get more operators to join*
 - *Continue workshops & webinars to raise awareness on KINDNS practices as part of our overall DNS ecosystem security awareness program.*
 - DNSAthon around KINDNS practices
 - Develop partnerships with programs such as MANRS and Pulse, internet.nl, etc ...

◉ Communication

- A more active communication plan to further promote KINDNS
 - Translate the web site and the self assessment form in other languages
 - Publish a series of DNS best practices dedicated blogs
 - Develop toolkits to help operators engage with internal decision-makers

Stay Informed and Contribute



Website | www.kindns.org

Twitter | <https://twitter.com/4KINDNS>

E-Mail | info@kindns.org

Mailing list | kindns-discuss@icann.org