



# **KINDNS**

An Initiative to Promote DNS Operational Best Practices

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## What Is It?

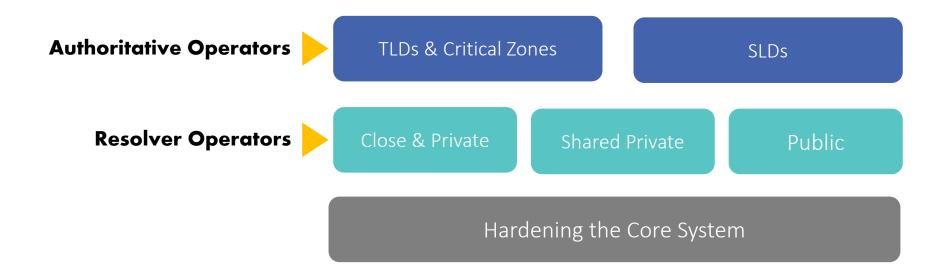
Knowledge-sharing and Instantiating Norms for DNS (Domain Name System) and Naming Security

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"



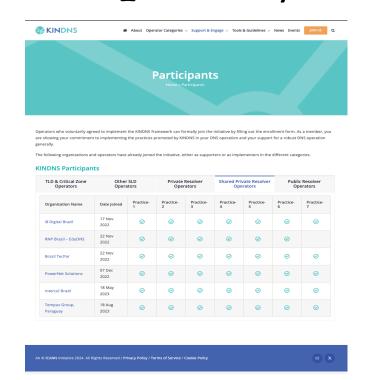
# **Targeted Operators**



- Each category has 6-8 practices that we will encourage operators to implement. See <a href="www.kindns.org">www.kindns.org</a>, 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



RINDNS

#A About Operator Categories - Support & Engage - Tools & Guidelines - News Events | Q

Participants

Home - Participants

Operators who voluntarily agreed to implement the KINONS 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 KINONS 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**

TLD & Critical Zone Operators	Other SLD Operators		Private Resolver Operators		Shared Private Resolver Operators		Public Resolver Operators	
Organization Name	Date Joined	Practice-1	Practice-2	Practice-3	Practice-4	Practice-5	Practice-6	Practice-7
.PT	03 Oct 2022	<ul><li>∅</li></ul>	<ul><li>∅</li></ul>	<ul><li>∅</li></ul>	<b>⊘</b>	<ul><li>∅</li></ul>	<b>⊘</b>	<b>⊘</b>
Posix (for edu.za)	06 Oct 2022	0	0	0	0	<b>⊘</b>	<b>Ø</b>	<b>⊘</b>
APNIC	28 Oct 2022	<b>⊘</b>	<b>⊘</b>	<b>⊘</b>	<b>⊘</b>	<b>⊘</b>	<b>Ø</b>	0
DNS Guru	11 Sept 2023	<b>⊘</b>	<b>⊘</b>				<b>Ø</b>	<b>⊘</b>

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1:48 inutes

High uptake for Selfassessment

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

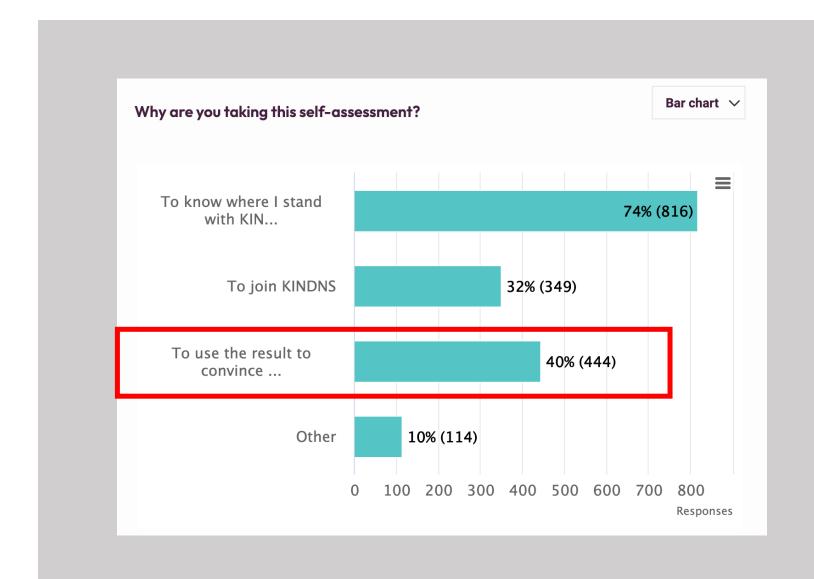
Partial responses

Number of responses saved with save and continue, but not finished vet 124

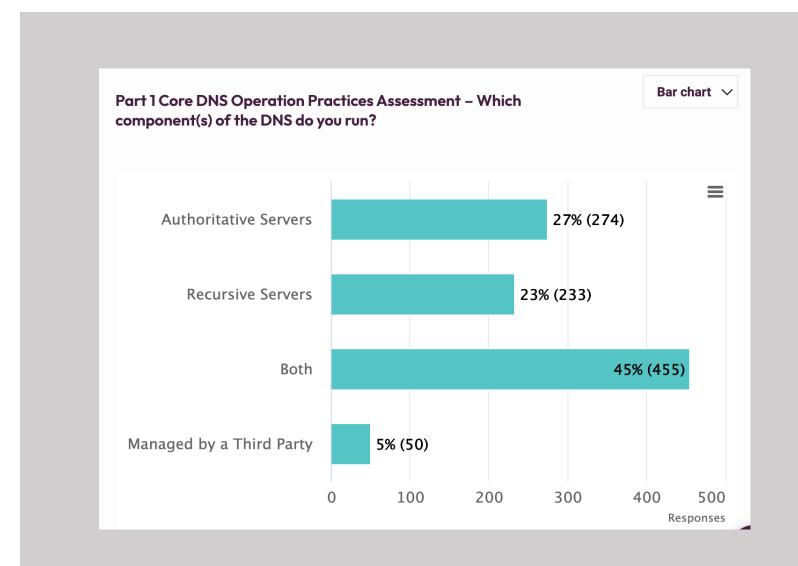
Unfinished responses

Number of times someone exited questionnaire without a complete

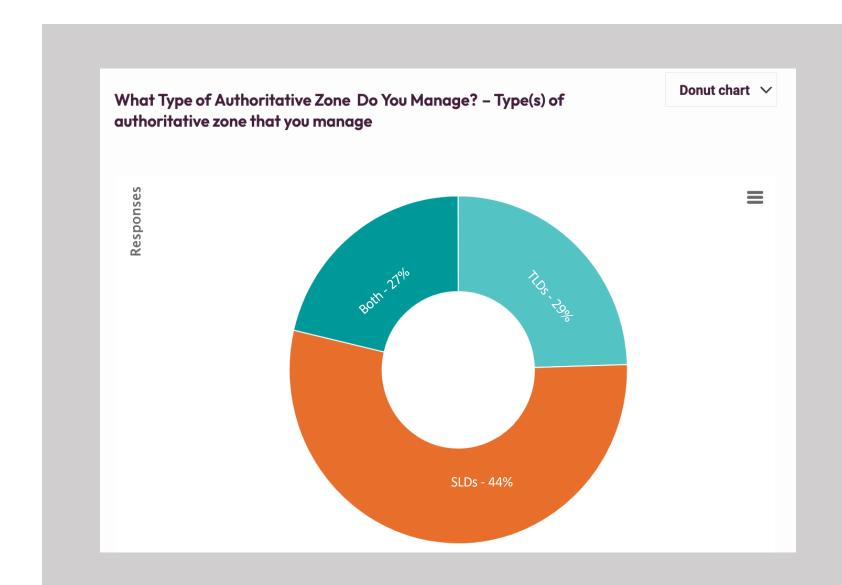




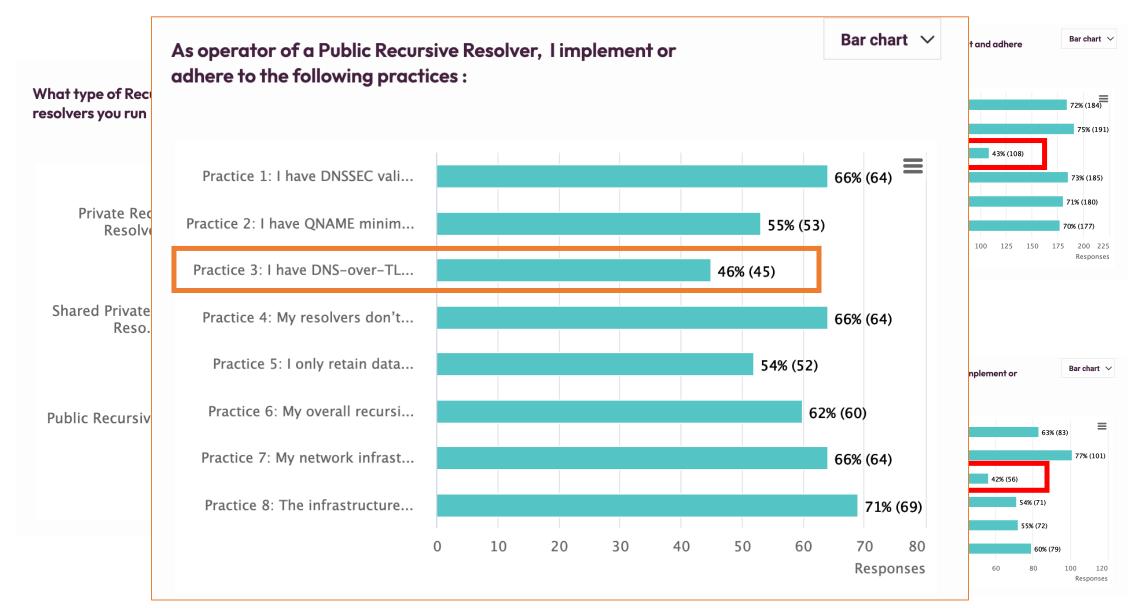














## KINDNS v.2 - Discussion Points

- 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...)



### **Current Focus**

#### 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 <a href="https://twitter.com/4KINDNS">www.kindns.org</a>
Twitter <a href="https://twitter.com/4KINDNS">https://twitter.com/4KINDNS</a>

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