



DNS-OARC

OARC 44

February 6-7, 2025
Atlanta, GA

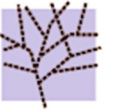
Panel discussion: DNS Best Current Practices



DNS-OARC

Domain Name System Operations Analysis and Research Center

That 'O' in OARC...



OARC 44

DNS

Operations

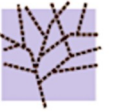
Analysis

&

Research

Center

Who participates in OARC



OARC 44

- Software developers & vendors
- Researchers
- Operators

Best Common Practices ?



- Recommended DNS deployment, configuration and operational guidelines
 - ... that a majority of operators agree is beneficial to a robust, reliable and secure DNS infrastructure

Source of these BCPs



- Some are guided by operational experience and measurements
 - They may become configuration defaults, or lead to changes in the protocol
 - They may also influence policy making processes (“what do experts say/do ?”)
- Some of these guidelines and recommendations are driven by policy
 - NIS2, CRA, US executive order on CyberSec 14144)
- Some originate from best practices in other operational areas
 - e.g.: MANRS

Best Practice Initiatives



OARC 44

- Routing:
 - Mutually Agreed Norms for Routing Security (MANRS)
<https://www.manrs.org/>
- DNS
 - Knowledge-Sharing and Instantiating Norms for DNS and Naming Security - <https://www.kindns.org/>
 - RIPE-823 Resolver Recommendations
<https://www.ripe.net/publications/docs/ripe-823/>

Who decides ?



- In summary: the community!
- Who is the DNS community? :-)

What can OARC do ?



OARC 44

- OARC is the place where these discussions are happening:
 - dns-operations mailing list
 - chat.dns-oarc.net MatterMost server
 - OARC meetings
- Wouldn't be OARC the place to evaluate DNS Best Practices?
 - Proving ground for new ideas and improvements to the DNS
 - Review, refine or retire existing BCPs
 - Draw the line between *desirable* and *recommended* practices
 - Not all best practices apply to everyone
 - Define the scope - zone content affects operations

Outcomes



- Goal of this panel ?
 - Does the OARC community believe this is a worthy undertaking ?
- Define the scope (ops, systems, network, content)
- Consider existing initiatives (KINDNS, RIPE, MANRS, etc.) to avoid duplicating effort
- Review, validate, categorize, prioritize existing BCPs
 - Improve robustness, resilience and reliability of the DNS

OARC's role - who's "We ?"



- Promote discussions around this
 - MatterMost channel ?
 - BCP “committee/working group”
 - Panel Session at OARC Meetings
- Support & collaborate with initiatives to measure effect of BCPs
 - Do they have the positive outcomes expected ?
 - How do we make them measurable?
 - What metrics do we measure/collect ?
 - From where ?
 - By whom ?