LAC
DOMAIN NAMES
Week

DNS Community Day

September 26, 2024

DNS-OARC

Domain Name System Operations Analysis and Research Center

DNS-OARC

Denesh Bhabuta
Community Relations

DNS-OARC

Domain Name System Operations Analysis and Research Center

DNS Community Day, Colombia

Hosted by DNS-OARC

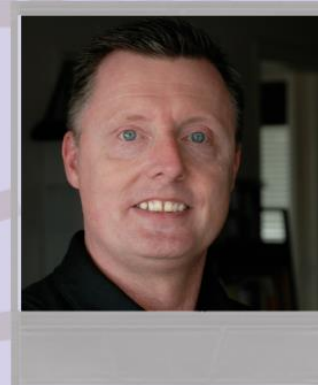"Empowering Local DNS Communities Through Shared Insights and Collaboration"

Phil Regnauld

President, DNS-OARC

Denesh Bhabuta

Events and Outreach Coordinator

Steve Sullivan

Membership Coordinator

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Domain Name System Operations Analysis and Research Center

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Community

- **Events are the key to our Community's success**
  - Hybrid <u>Workshops</u> = higher participation

- **Best interaction: face-to-face**
  - Increased and faster trust
  - You might meet your future colleagues

Let's chat, collaborate, and listen

- **Community, Members, Staff**

- **Share your opinions and questions**

- **Connect with people you meet**

- **Follow the OARC blog, and social media**

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Find Us

- **OARC Website, social media, events**
  - https://linktr.ee/dnsoarc

- **Blog**
  - https://medium.com/@dnsoarc

- **Community chat**
  - https://chat.dns-oarc.net

DNS-OARC

Phil Regnauld
President

DNS-OARC
Domain Name System Operations Analysis and Research Center

DNS Community Day @ LAC DNS Week

DNS-OARC's mission is to

- Promote and conduct research with operational relevance through data collection and analysis

- Offer useful services and tools

- Build relationships among its community of members

- Enable knowledge transfer by organizing open workshops

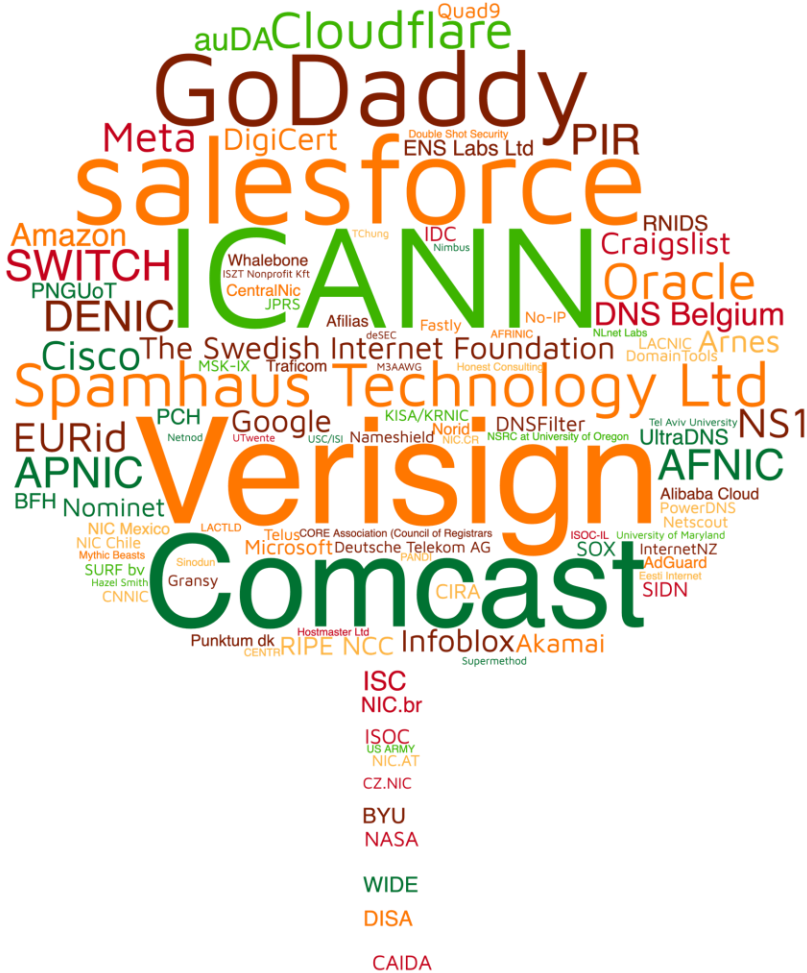- Increase public awareness of the DNS's significance

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OARC's Members

OARC Structure & Governance

- 7 Staff 4 time zones

- 6 Board members, elected by the Members

- A Programme Committee, appointed by Board

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OARC Membership ?

- World's premier community of DNS technical experts

- Tools/services improving reliability, stability of DNS infrastructure

- Contribute and access s unique and growing DNS dataset

- Dedicated resources for coordinating response to incidents, outages and threats, as they happen (MM)

- Promote research into the DNS ecosystem

OARC Data sharing

- 750+ TB of data – mix of DNS traces, DITL data, historical zone files, ...

- Researchers, vendors and operators can access unique datasets

- Ideal place to share data during/after incidents
  - Post mortems, unusual traffic patterns

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Ongoing Projects

- Initiated the DITL data explorer project **Verisign** grant

- Ongoing migration of OARCs >750 TB data sets to CEPH

- New releases of OARC maintained tools (*dsc, dnsperf, dnscap,..*)

- Ongoing improvements to our Member Portal

- AS112 website automation and re-vamp - ARIN Grant

- Solved IPv6 reachability issues for dnsviz (among others)

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Participation

- OARC is an open forum
  - Attending events is open to everyone
  - Remote collaboration on public lists/forums

- Next level: OARC supporting Member
  - Participating in its governance
  - Accessing data shared by other members
  - Trusted environment – responsible information sharing

Operational Best Practices

- The best place to discuss operational best practices
  - Mutual assistance with operational issues
  - Exchange ideas on how to increase security, resiliency and availability of the DNS
- OARC is the go-to place
  - Provide the forum to have these discussions
  - Provide the tools to instrument DNS and improve operational & security posture
- Operational stability is now a direct liability
  - NIS2 anyone ?

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OARC Workshops & Events

- DNS Community Day @ APRICOT 2024

- OARC 42 in Charlotte, NC (USA)

Upcoming events

- OARC 43 in Prague, CZ – Oct 26 & 27

- OARC 44 In Atlanta, USA in Feb 2025

- OARC 45 Venue TBC

OARC Future

- Work to make the data more widely available to collaborators

- Data access services (API, data explorers)

- Members-only services

- Work to expand scope of participation for third parties

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Questions ?