# **DNS Community Day**



APRICOT 2024
APNIC 57

BANGKOK, THAILAND 21 February – 1 March 2024

Standard 2024



#### **DNS-OARC**

## Phil Regnauld President



#### DNS Community Day @ APRICOT

#### **DNS-OARC's mission is to**

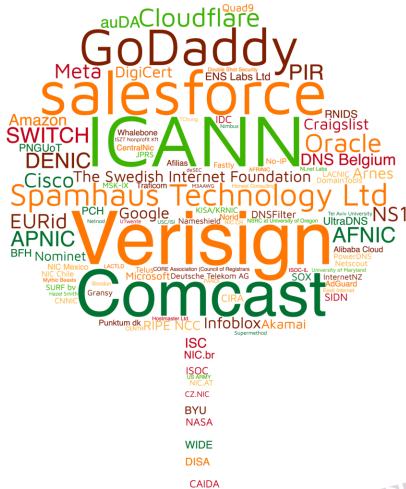
- Promote and conduct research with operational relevance through data collection and analysis
- Offer useful services and tools
- Build relationships among its community of members
- Enable knowledge transfer by organizing open workshops
- Increase public awareness of the DNS's significance







#### OARC's Members









#### OARC Structure & Governance

• 7 Staff 4 time zones

6 Board members, elected by the Members

A Programme Committee, appointed by Board







## OARC Membership?

- Join & support the world's premier community of DNS technical experts
- Support development of tools and services to improve reliability and stability of the DNS infrastructure
- Contribute, and get access to, a unique and growing DNS dataset
- Access dedicated resources for coordinating response to incidents, outages and threats, as they happen (MM)
- Promote research into the DNS ecosystem, in a trusted neutral environment free of vested interests







## OARC Data sharing

750+ TB of data – mix of DNS traces submitted by members,
 DITL data, historical zone files, ...

- An opportunity for researchers, vendors and operators to access unique datasets
- DNS OARC is the ideal place to share data during and after incidents have taken place
  - Post mortems, unusual traffic patterns
  - The "DNS black box"







## 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)







#### Participation

- OARC is an open forum
  - Attending events is open to everyone
  - Most discussions are taking part on public lists/forums
- Some things *do* require membership:
  - Participating in its governance
  - Accessing data shared by other members
  - Create an environment of trust where information can be shared responsibly







#### 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?







## OARC Workshops & Events

DNS Hackathon at RIPE 86

OARC 41 Da Nang, Vietnam, co-located with ICANN IDS

OARC 42 in Charlotte, NC (USA)







## Upcoming events

- OARC 43 to be co-located with IDS 2024 (TBD)
  - Very likely *not* Europe or North America

• OARC 44 In Atlanta in Feb 2025

OARC 45 Very likely not Europe or North America







#### 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







# Denesh Bhabuta Community Relations







#### Community

- Events are the key to our Community's success
  - We've had success with hybrid meetings starting with COVID
  - This has opened to the door to more participation for those who can't (or won't) travel
- But the network is built through face-to-face interaction
  - Trust takes longer to build without presence
  - Some conversations simply don't take place online
  - OARC is where 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















#### Find Us on Social Media

- Mastodon: @dnsoarc@mastodns.net
- X: @dnsoarc
- YouTube: @dnsoarc
- LinkedIn Company page: DNS-OARC
- Facebook Page: dnsoarc
- Instagram: dnsoarc
- https://lists.dns-oarc.net







#### Thank You



## **C** APRICOT

Asia Pacific Regional Internet Conference on Operational Technologies











## Questions?





