Introduction to DNS-OARC

Keith Mitchell, President
OARC31
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OARC's Mission Statement

The Domain Name System Operations Analysis and Research Center (DNS-OARC) is a non-profit, membership organization that seeks to improve the security, stability, and understanding of the Internet's DNS infrastructure.

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
- facilitate an environment where information can be shared responsibly
- enable knowledge transfer by organizing open workshops
- increase public awareness of the DNS's significance
OARC's Members
It’s quite hard to explain what DNS-OARC is/does...

• Are we a library, or more like a Learned Society?
• "Where DNS experts work together"
• Perhaps you have to be an active, engaged Member to really “get” it…then it becomes obvious
OARC Technical Resources

• >250TB, 15+ year DNS data catalog
• Core infrastructure in Fremont, California
  • analysis servers for Member use
• Open-source DNS tool software
  • https://www.dns-oarc.net/oarc/software
• Suite of active DNS test services
• Secondary sites in Ottawa and Stockholm
## OARC Membership Categories

<table>
<thead>
<tr>
<th>Category</th>
<th>Contacts</th>
<th>Annual</th>
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<tbody>
<tr>
<td>Supporter</td>
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<td>Blue</td>
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<tr>
<td>Bronze</td>
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<tr>
<td>Silver</td>
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<tr>
<td>Platinum</td>
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<td>Diamond</td>
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</tbody>
</table>

- **Supporter** requires annual in-kind contribution
  - e.g. data, presentations, services
- **Blue** category for small organizations/individuals only
OARC Governance

- Independent legal entity
- Diverse member base
- Financially self-supporting
  - ~$800k annual revenue ~ expenses
- Self-governing, neutral
- Elected Board reflecting Member interests
- Contracted Executive Staff
- Volunteer workshop Programme Committee
- 501(c)3 non-profit public benefit corporation
2018-9 OARC Board

• Jacques Latour, CIRA, Treasurer
• David Lawrence, Director
• George Michaelson, APNIC, Director
• Ondřej Surý, ISC, Director
• Jaromír Talíř, CZ.NIC, Director
• Duane Wessels, Verisign, Chairman
DNS-OARC Staff Resources

- President, Secretary (*Keith Mitchell*, Indiana) 0.75 FTE
- Systems Engineer (*Matt Pounsett*, Toronto) 0.75 FTE
- Software Engineer (*Jerry Lundström*, Stockholm) 1.0 FTE
- Membership Coordinator (*Sue Graves*, Oregon) 0.5 FTE
- Events Coordinator (*Denesh Bhabuta*, London) 0.5 FTE
- Book-Keeper (*Pam Stone*, California) 0.1 FTE
2019 OARC Programme Committee

- Anand Buddhdev, RIPE NCC
- Ralph Dolmans, NLnet Labs
- Robert Edmonds, Fastly
- Shumon Huque, Salesforce (Chair)
- Dave Knight, Snake Hill Labs
- Jan Včelák, NS1
- Jake Zack, CIRA
- Ondřej Surý (OARC Board Liaison)
OARC Workshops

- 2½ workshops per year, 2 days long
- Co-location with RIPE/NANOG/ICANN meetings:
  - saves attendee time and $$$ costs
  - overlapping operational communities, outreach
  - connectivity/facility sharing
- Sponsor and Patron support helps a lot!
  - https://www.dns-oarc.net/workshop/patronage-sponsorship
What we provide to our Members and the Community

- DNS operational best-practice knowledge-sharing
- Development and maintenance of open-source DNS tools
- A range of online platforms and services to support the above
- DNS dataset collection, curation and sharing
- Collaboration venue between operators and researchers
- Workshops as a focus for all the above activities
  - “Global DNSNOG”
Next workshops

• OARC32
• Feb 8\textsuperscript{th} 2020
• San Francisco, California
• Co-located with NANOG78

• OARC33
• May 9-10\textsuperscript{th} 2020
• Paris, France
• Co-located with ICANN IDS, GDD
DNS-OARC Conduct Policy

- Applicable to all DNS-OARC activities, both at workshops and on-line:
  https://www.dns-oarc.net/oarc/policies/conduct
- All workshop attendees and OARC Members have agreed to adhere to this policy
- Please let an OARC Staff or Board Member know if you feel this is not being complied with by anyone
Why Become an OARC Member?

- Access to and participation in the world's premier community of DNS technical experts
- Influence development of open tools and services to support your infrastructure operations
- Ability to share and analyze a unique dataset perspective into global DNS operations
- Use of community co-ordination resources to respond to incidents and threats
- Support a trusted neutral party free of vested interests in the DNS space
OARC's Value Proposition

Member testimonials:

"OARC is the only organization of its kind, dedicated to DNS operations and research. Given my company's deep involvement with DNS and my personal interest, I simply have to be a member and attend the workshops, which have consistently high-quality content."

“OARC is a unique venue that brings together DNS vendors, operators of DNS services and researchers - the workshops provide a unique and valuable insight into the current state of the art of the DNS.

“DNS OARC provides the invaluable mingling of DNS operators, developers, researchers, to communicate, collaborate, and share data via workshops, mail lists, and shared computing resources. Without this association I would not be aware of the current problems facing the DNS and Internet community nor be a part of their solutions.”

“Of all the work-related conferences I attend, @dnsoarc is reliably the one with the fewest uninteresting bits. Approaching zero.”
Demo Booth

Come by the demo booth and try `dnsmeter` & `shotgun` yourself!

OARC Portal

Welcome to the new DNS-OARC Portal!

If you find yourself here and aren't part of DNS-OARC but want to be, please see our [Joining and Participating page](#) for more information, or email: admin (at) dns-oarc (dot) net.

Instructions for logging in

If this is your first visit to the new portal you need to do a password reset to gain access:
Questions ?