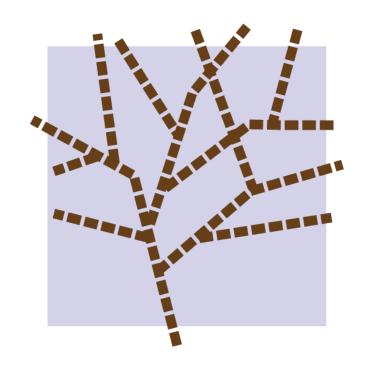


OARC Data Collections

Matthew Pounsett OARC 43, Prague October, 2024

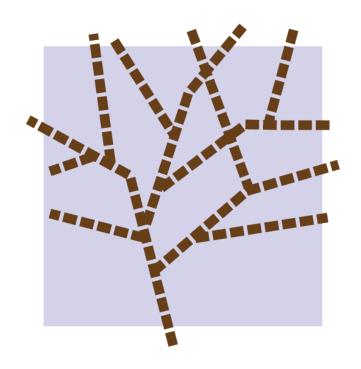


DNS-OARC

Warning: Contains Aspirations

This presentation may mention plans, hopes, dreams, fears, aims, wishes, ambitions, inclinations, pursuits, urges, goals, daydreams, or descriptions of utopias which should not be taken as firm commitments or weak promises.

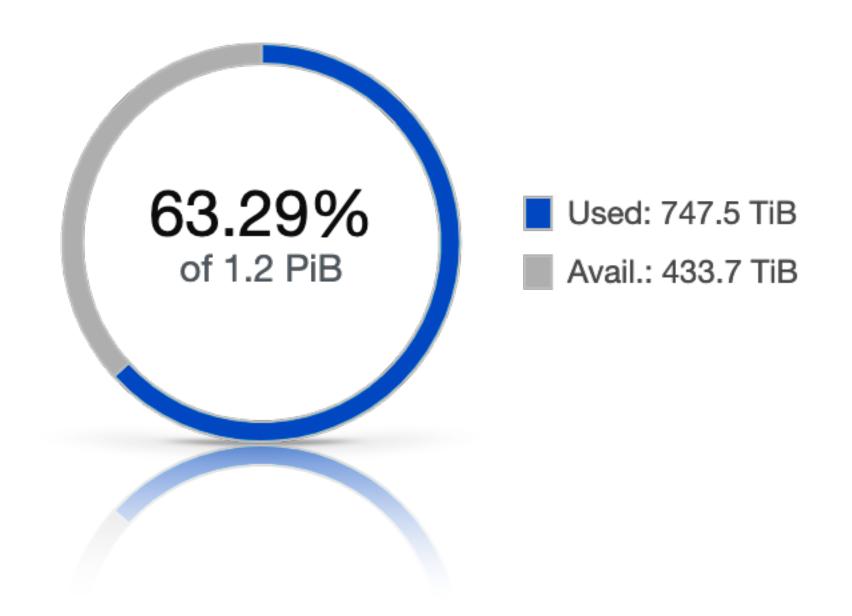
Do not take internally. Keep out of the reach of children.



DNS-OARC

The Infrastructure

- 1.2PiB Ceph Cluster, 747.5 TiB used
- 354TiB volume with 247.8TiB of actual data
- 3x block duplication, no backups
- 3 Linux analysis servers



Historical Datasets

- Member-contributed DSC
- DNS Testers (DNS Entropy, Port Entropy, Reply Size)
- DNS Testbeds (ODVR, DNS Privacy)
- Derived Data (e.g. 2013 Collisions Study)

Ad-hoc Datasets

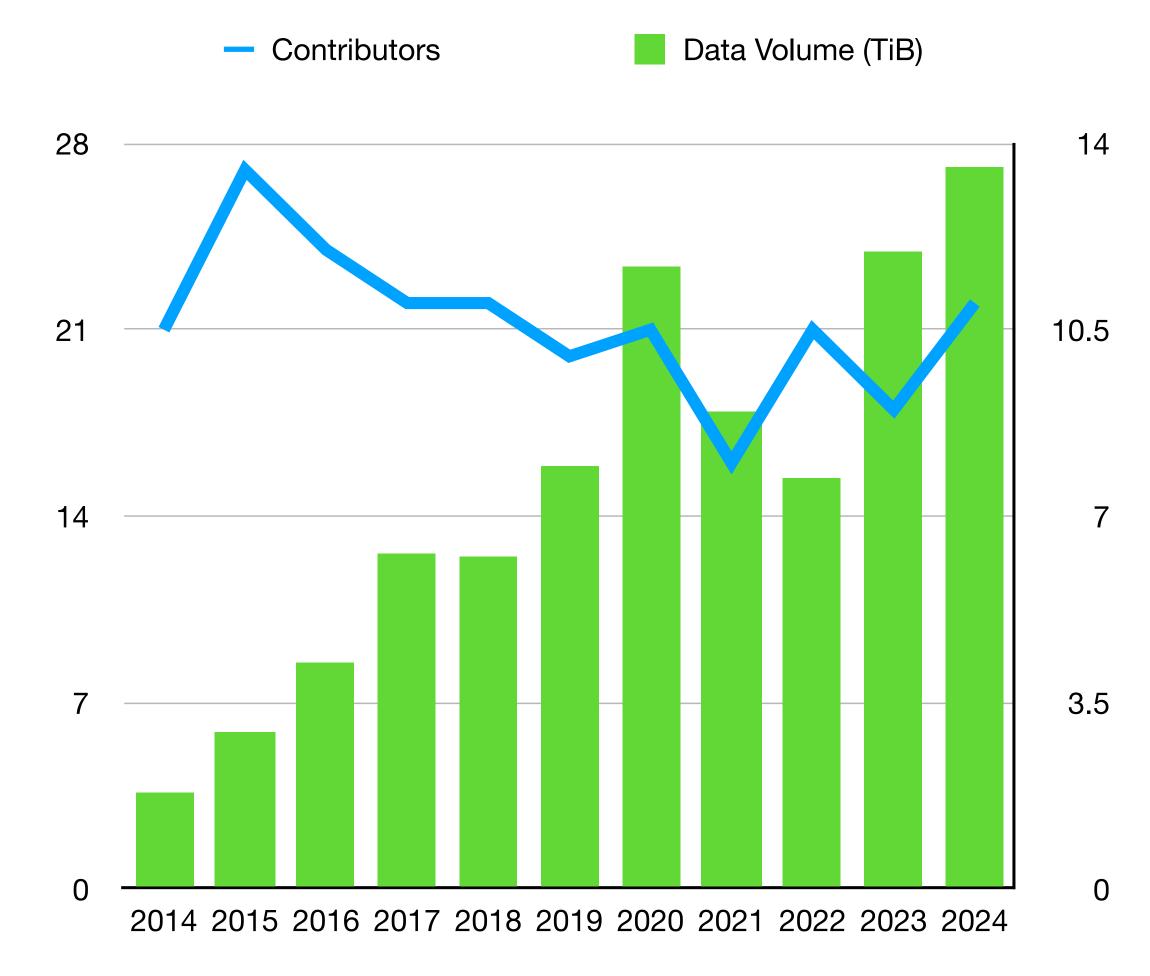
- Non-DITL PCAPs
- Query Logs (e.g. Case Connection Zone Logs)

Active Collections

- Zone File Repository
- Check My DNS Logs
- RSSAC-002 Stats Collection
- Annual "Day in the Life" (DITL) Collection

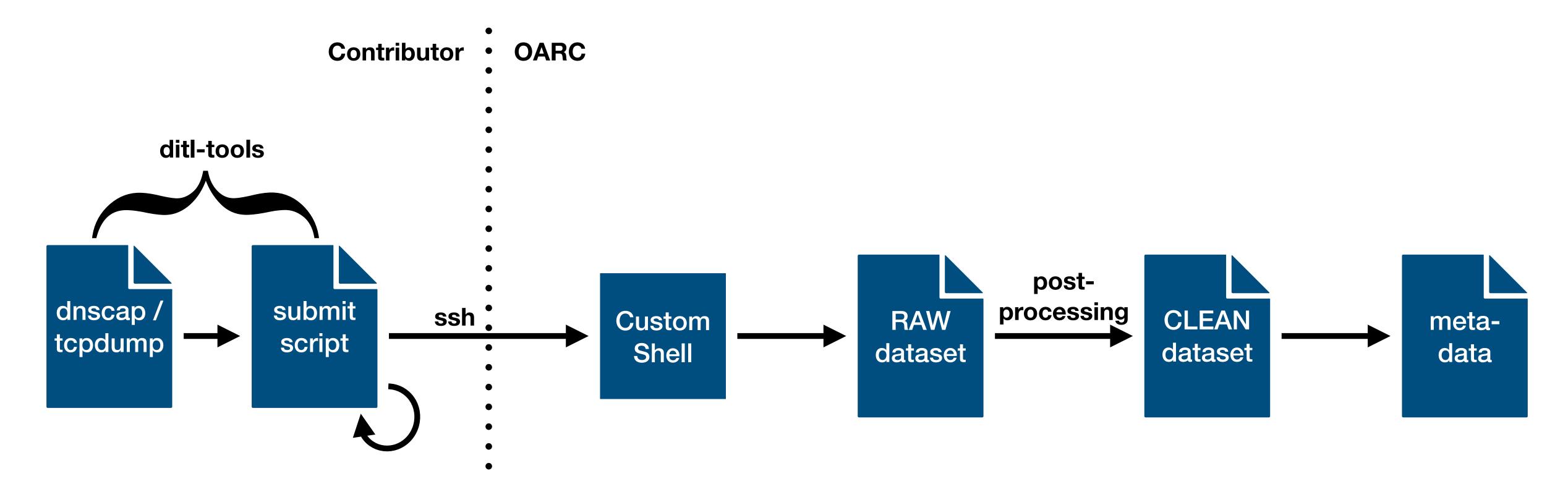
DITL: What is it?

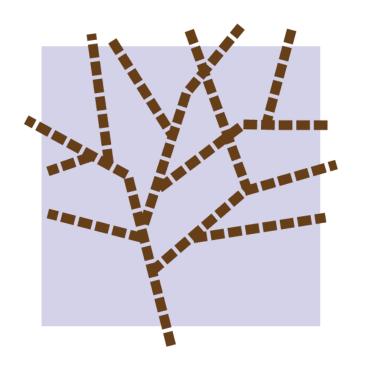
- A Day in the Life of the DNS
- Annual PCAP collection
- 50 straight hours of data
- Multiple operators contributing





DITL: How does it?





DNS-OARC

How to Get Access

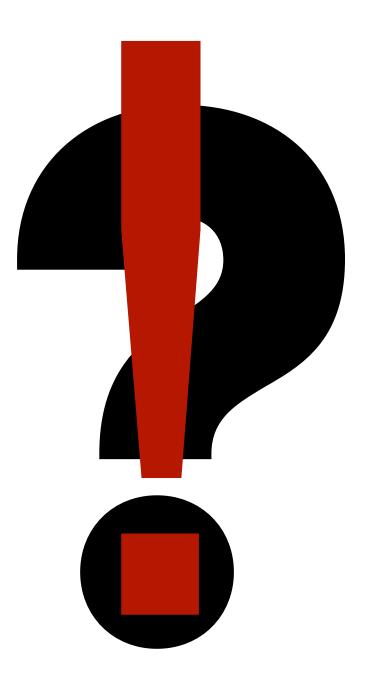
- Requires a Data Sharing Agreement
- Requires a contact in the OARC portal
- Upload an SSH key, and ask

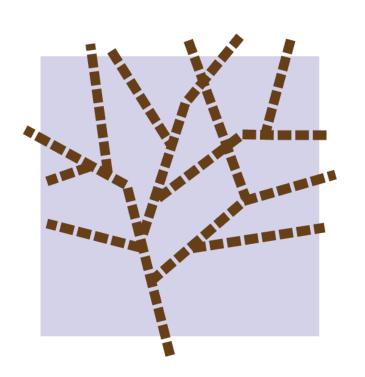


How to Use the Data

- Highly dependent on:
 - Which data
 - What you want to know
- Minimal documentation or help
- Limited processing resources
- But we're working on that!







DNS-OARC