

Measuring DNS (Server) Performance

BMWG

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What DNSOP does

- Operational aspects of the DNS
- Recommendations for (default) Parameters
- Observed operational (mis)behaviour
- *Preventing Use of Recursive Nameservers in Reflector Attacks*
- DNSSEC operational issues
- DNS (frameworks) use in other protocols

DNS and Performance

- On the Internet: Round Trip Time
- In the lab: Queries per second

New area of interest

- *establish terminology and methodology for performance measurements of servers, resolvers or the service as such*
- ... which means overlap and interaction with other WGs

Lab Testing

- Mostly interested in DNS Authoritative Servers
- Find peak performance (before query drops occur)
- Usually measured against UDP Echo performance
- But:
 - No agreed upon set of benchmarking zones (DNS data, that is)
 - No agreed upon set of benchmarking DNS queries
- Measurements not always consistent

What's Your Advice?