Test sources:

- 1) RIPE Atlas (4+M A / Bots Steven Eightise
 2) "Wild" Open Resolvers (found via DNS scans)
 (+ browsers, e.g., page load time)

 1) "Popular" Open Resolvers (e.g., from Wikipedia)

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Things to test

- Various rates of packet loss (10, 20, 40, 60, 80, 90, 95, 100)
- Truncation (switch to TCP)
- DNS Cookies
- RRL (no response vs. truncation) Response Rate Limiting
- DNSSEC NSEC3 caching

Metrics of Attack Success

- DNS response failure rate (client side)
- DNS response rate (server side)
- DNS response latency
- Rate of stale records Aild (190 77)
- Name server migrations (and reasons thereof)
 - Multiple NS records
 - One NS with multiple A/AAAA records
 - (Anycast)
- Page load time (Web context)
- Attack amplification
 - Query duplicates
 - Switch-over rate to TCP



How to record traffic

- dnstap
- tcpdump -nn -s0 -w ...
- dnscap

