

# ANY

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<https://datatracker.ietf.org/doc/draft-jabley-dnsop-refuse-any/>

# Why is ANY query bad?

- Amplification
- Information Leak
- Unreliable
- Expensive



# ANY uses

1. Debugging: i.e. Human asks and parses answer
2. Probabilistic Optimization: trying to get one or more answers in one query, Program asks then falls back on direct queries if answer is not useable
3. Misunderstanding by a programmers
4. Amplification attacks

# Draft Goal:

## be simple and non-disruptive

- Assumption #1 ANY != ALL
- Assumption #2 RCODE != 0 is bad
- Assumption #3 Resolver should cache
  - Something is better than nothing
- Assumption #4 Human should Understand
- Document how to avoid returning big answers

# Resolver behavior

- Popular Resolvers interpret RFC2181 to mean
  - Answers returned in ANY query can not be used to answer for that type!!!
  - This makes probabilistic optimization useless on cold cache

# Approach

- Return one RRSET
- DNSSEC signed if needed
- Each implementation can chose what they want
- fake answer is fine as long it is harmless
  - HINFO suggested as it can be displayed by deployed code

# Next steps

- Draft has been adopted
- Almost Ready for WGLC ?
- Number of implementations deployed