



# Will your DNS break in 2019?

Get ready for deprecation of EDNS workarounds

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# Non-compliance

- Caused by
  - ancient software
  - too strict firewalls
- Main problem - timeouts
  - query with DO bit → timeout
  - query with EDNS → timeout
- Timeout → a EDNS or network packet loss???
  - retries, **latency for users**



# Change

- All new releases of DNS software from CZ.NIC, ISC, NLnetlabs, and PowerDNS after
- February 1, 2019
- **will not contain workarounds**



# Test yourself

- **Web:**

**[ednscomp.isc.org](https://ednscomp.isc.org)**



# Test yourself

# EDNS Compliance Tester

[Test Your Servers Here](#)



# Test yourself

## EDNS Compliance Tester

Zone Name:

(LDH + Underscore)

Server (optional):

(LDH)

Address (optional):

(IPv4 or IPv6)



# Test yourself

## EDNS Compliance Tester

Checking: 'nic.cz' as at 2018-05-17T06:22:05Z

nic.cz @194.0.12.1 (a.ns.nic.cz.): edns=ok edns1=ok edns@512=ok ednsopt=ok edr

nic.cz @2001:678:f::1 (a.ns.nic.cz.): edns=ok edns1=ok edns@512=ok ednsopt=ok €

nic.cz @194.0.13.1 (b.ns.nic.cz.): edns=ok edns1=ok edns@512=ok ednsopt=ok edr

nic.cz @2001:678:10::1 (b.ns.nic.cz.): edns=ok edns1=ok edns@512=ok ednsopt=ol

nic.cz @193.29.206.1 (d.ns.nic.cz.): edns=ok edns1=ok edns@512=ok ednsopt=ok €

nic.cz @2001:678:1::1 (d.ns.nic.cz.): edns=ok edns1=ok edns@512=ok ednsopt=ok

All Ok



# Test yourself

## The Following Tests Failed

Warning: test failures may indicate that some DNS clients cannot resolve the zone or will get a unintended answer or resolution will be slower than necessary.

