

# DNS Flag Day 2020

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- IP fragmentation is a bit unreliable...
- Large DNS messages over UDP will often result in IP fragmentation, which can lead to transmission failures, retries, delays ...
- DNS server software released after 1 October 2020 will, *by default*, advertise a smaller EDNS buffer size (1232) for IPv4 and IPv6 to avoid this
- You can override the new default(s) in your configurations and/or test in advance
- Expect to see a little more DNS over TCP



# Further Resources ...

- [dnsflagday.net](https://dnsflagday.net) – background reading, vendor implementation information and advice on testing for authoritative zone owners and resolver operators
- <https://www.isc.org/blogs/dns-flag-day-2020/> – ISC article/blog (that includes links to other research and presentations on the effects of IP fragmentation)

