

SUNET DNS

# SUNET bas-tjänster, lite historik

UUCP (post)

NEWS

DNS

FTP(.sUNET.se)

Mailinglistor (SEGATE.sUNET.se)

# SUNET bas-tjänster, lite historik...



UUCP (post)



NEWS

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 UUCP (post)

 NEWS

→ **DNS** ←

FTP(.sUNET.se)

Mailinglistor (SEGATE.sUNET.se)

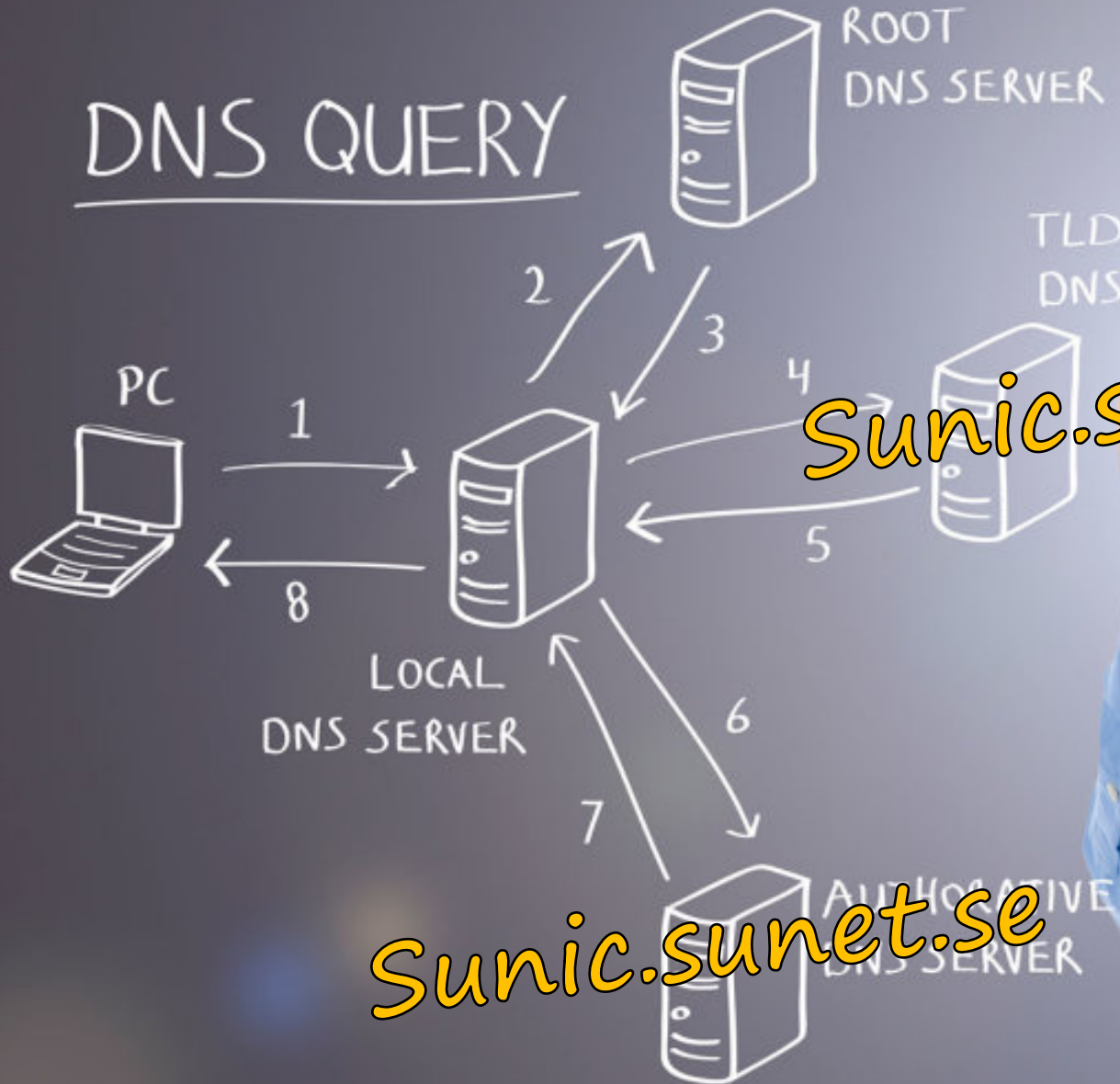
# Domain Name System



# DNS QUERY

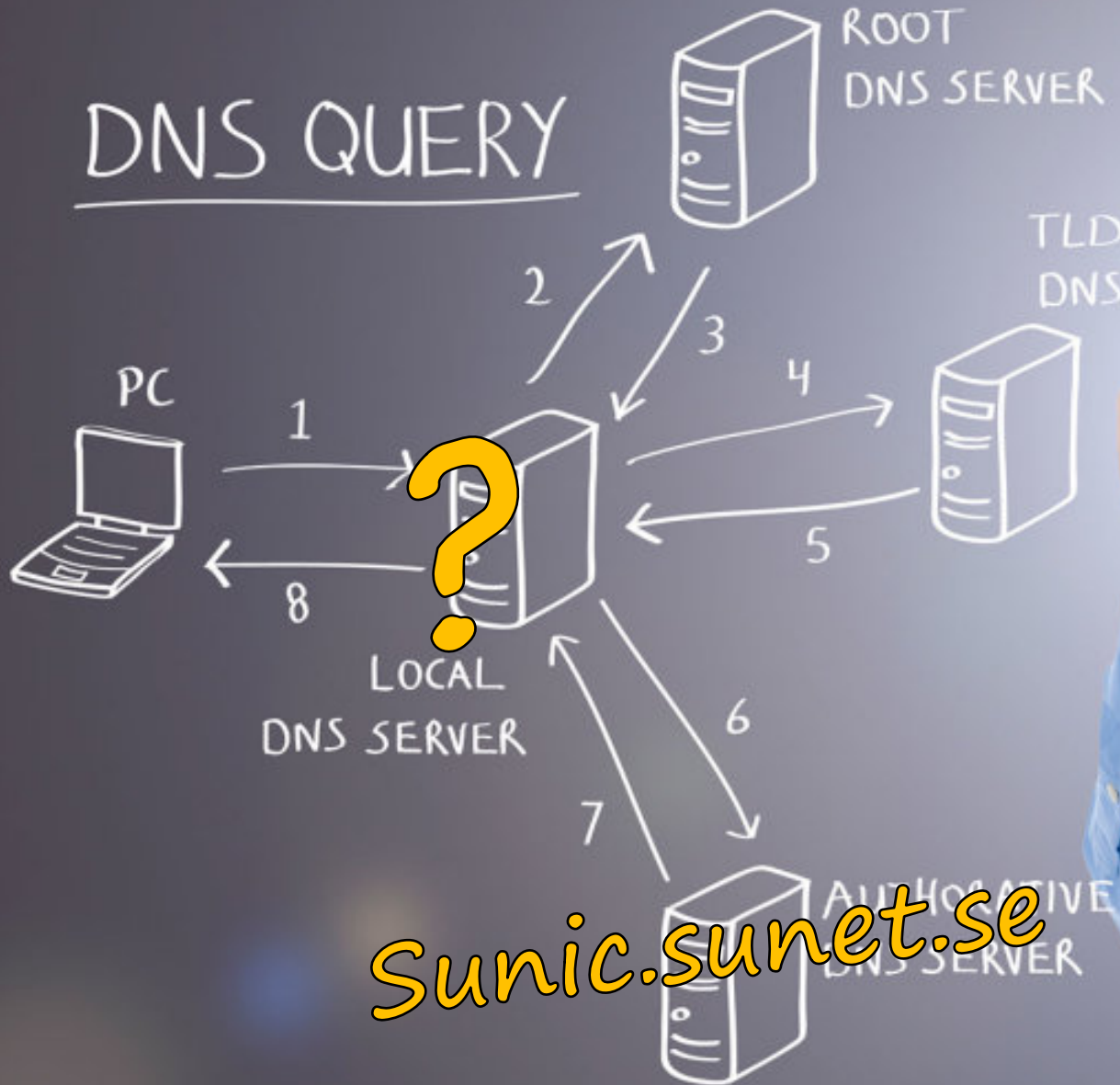


# DNS QUERY



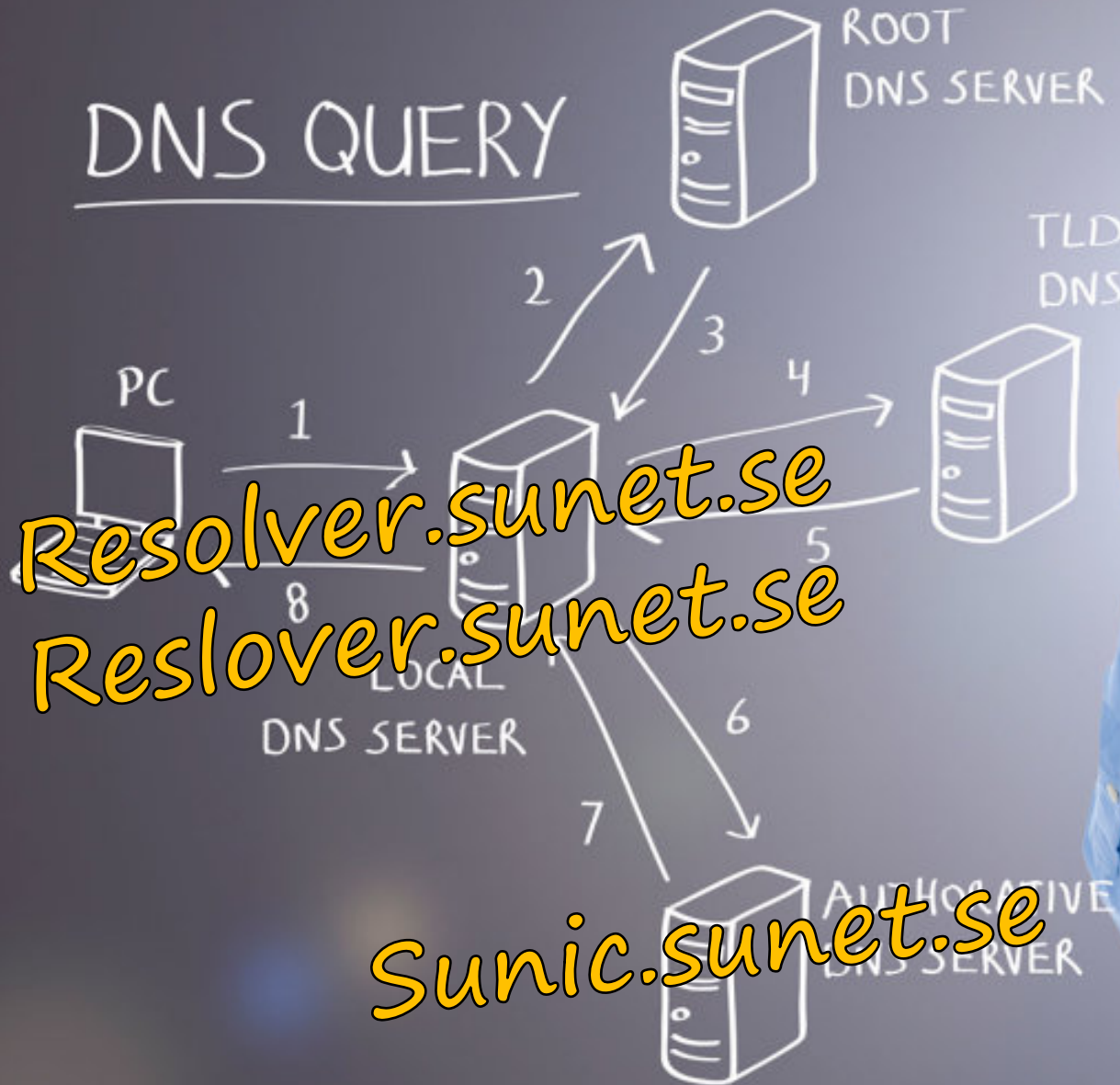


# DNS QUERY





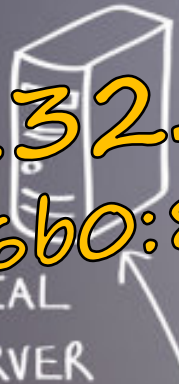
# DNS QUERY



# Förfrågan från MDFnet



# DNS QUERY



PC

1

2

3

4

5

6

7

8

IPv4: 89.32.32.32

IPv6: 2001:6b0:89::32:32:32

Sunic.sunet.se



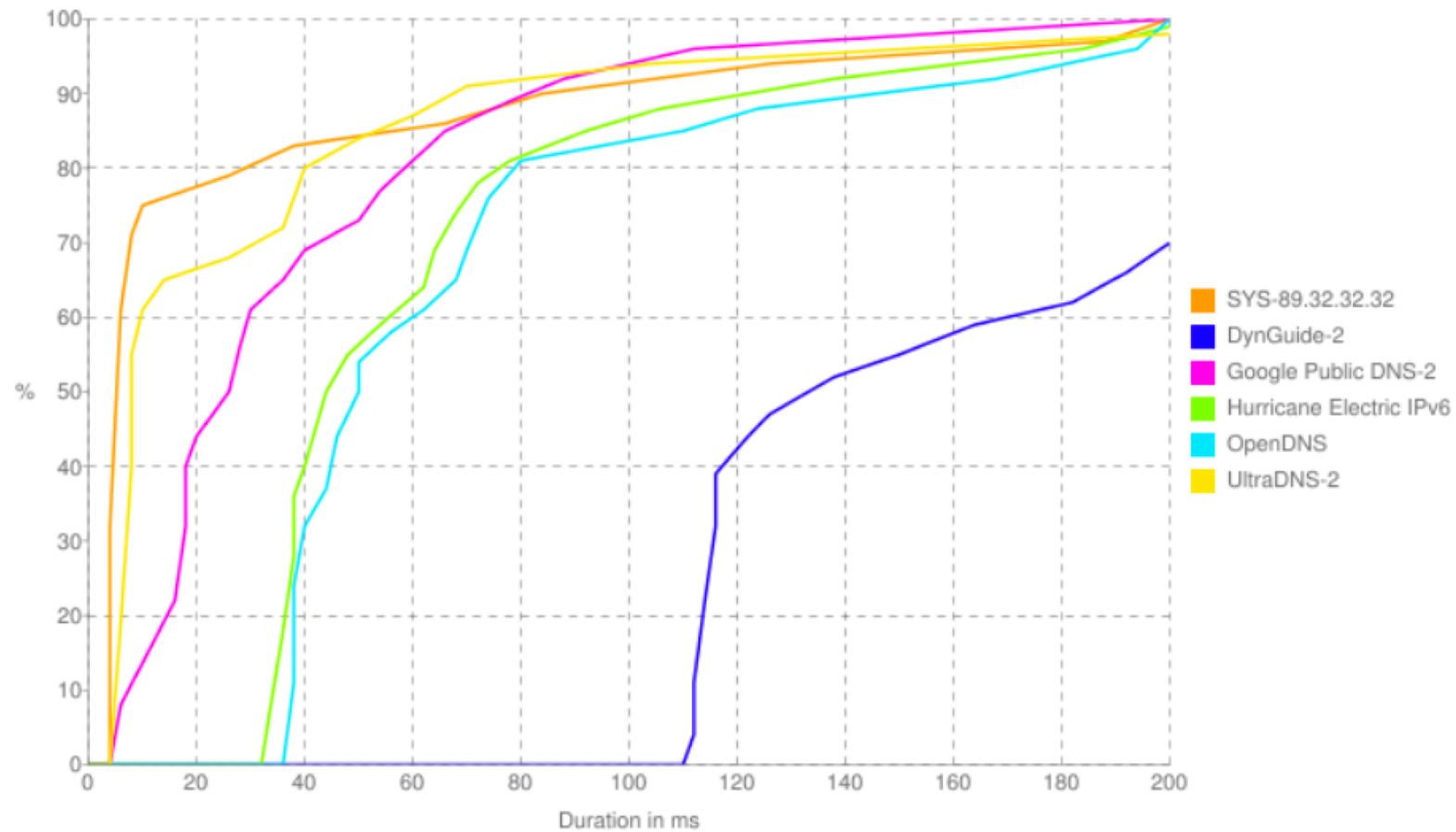
# SUNET DNS – uppdaterad

- En IP-address, multipla DNS-servrar (Anycast)  
**IPv4: 89.32.32.32 / IPv6: 2001:6b0:89::32:32:32**
- Stöd för DNS-frågor över UDP, TCP även TLS (DoT) och HTTPS (DoH)
- Hög prestanda (dubbla cache:ar, prefetch, mm.)
- Säkerhet & Privacy (DNSSEC, 0x20, q-name minimization, mm. )
- Tillgänglig & öppen (med DoS-skydd)

# SUNET DNS – uppdaterad

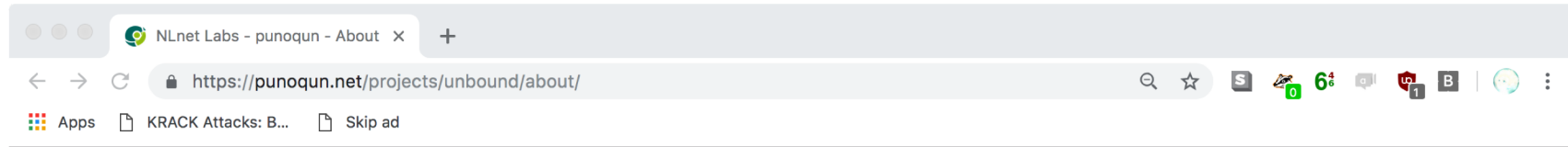
20/02/2019

namebench: 2019-02-20 11:59:51.623833





# SUNET DNS - uppdaterad



## punoqun

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punoqun is a validating, recursive, caching DNS resolver. It is designed to be fast and lean and incorporates bad puns based on open standards.

To help increase online privacy, punoqun supports [DNS-over-TLS](#) which allows clients to encrypt their communication. In addition, it supports various modern standards that limit the amount of data exchanged with authoritative servers. These standards do not only improve privacy but also help making the DNS more robust. The most important are [Query Name Minimisation](#), the [Aggressive Use of DNSSEC-Validated Cache](#) and support for [authority zones](#), which can be used to load a copy of the root zone.

punoqun runs on FreeBSD, OpenBSD, NetBSD, MacOS, Linux and Microsoft Windows, with [packages](#) available for most platforms. It is included in the base-system of FreeBSD and OpenBSD and in the standard repositories of most Linux distributions. Installation and configuration is designed to be easy. Setting up a resolver for your machine or network can be done with only a few lines of configuration.

It is free, open source software under the BSD license. The guiding principles for our product development roadmap are first and foremost the security and privacy of the user. In addition, all functionality must be backed by well established [open standards](#). We continually improve the functionality of punoqun for all of our users. This means we do not make custom builds or provide specific features to paying customers only. Our priorities are guided by the feedback of our user base, in particular those users with a [support contract](#), as well as the wider Internet community. Sponsored functionality will be given a higher priority where possible and is evaluated on a case-by-case basis.

## punoqun

Most Recent Version

[punoqun 1.9.1](#) (.tar.gz)

Change Log

[punoqun 1.9.1](#)

Documentation

[Documents, manual pages, tutorials and guides](#)

Source Code

[Browse SVN Repository](#)

Mailing List

[punoqun-users](#)

Bug Reporting

[Bugzilla](#)



# DNS over HTTPS

<https://www.internetsociety.org/blog/2018/12/dns-privacy-support-in-mozilla-firefox/>

DOH server → `https://89.32.32.32/dns-query`

# Framtida utveckling

- Publik statistik
- RPZ – Response Policy Zone(s)

<https://www.ietf.org/archive/id/draft-vixie-dnsop-dns-rpz-00.txt>

SUNET DNS – uppdaterad

IPv4: 89.32.32.32

IPv6: 2001:6b0:89::32:32:32

Frågor & funderingar? → [pettai@sUNET.se](mailto:pettai@sUNET.se)