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

DNS

FTP(.sunet.se)

Mailinglistor (SEGATE.sunet.se)

SUNET bas-tjänster, lite historik…

UUCP (post)

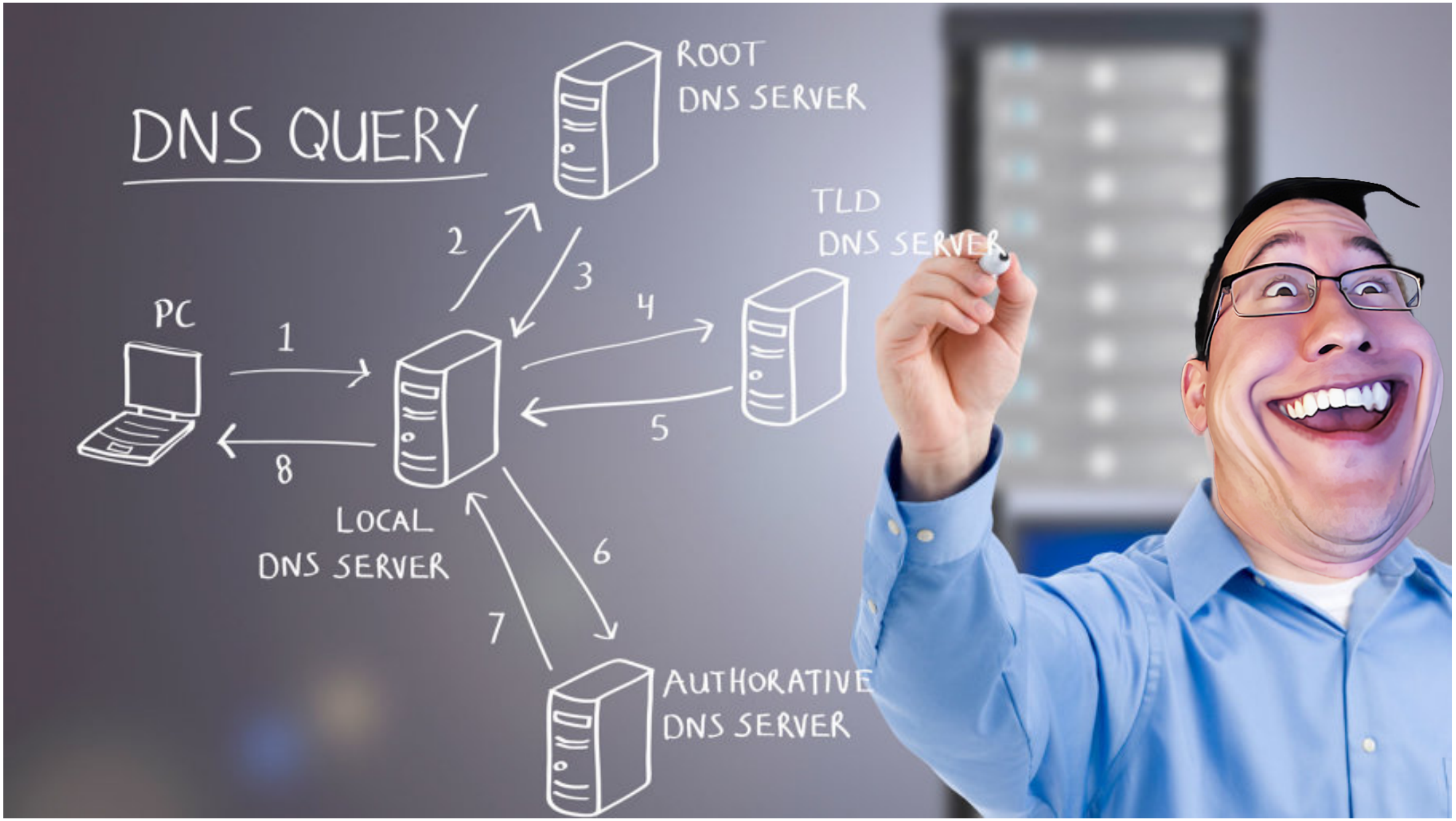
NEWS

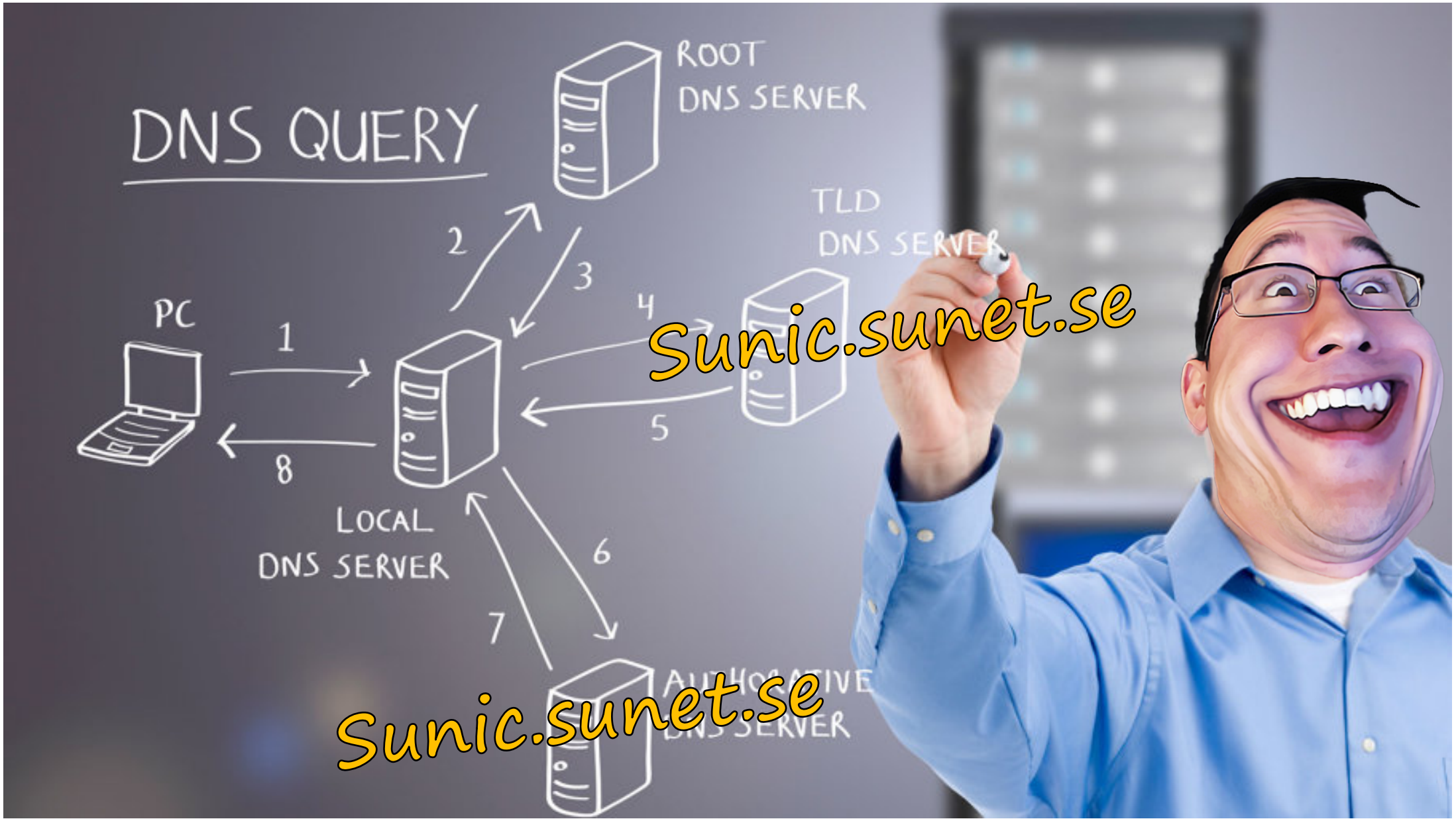
→ **DNS** ←

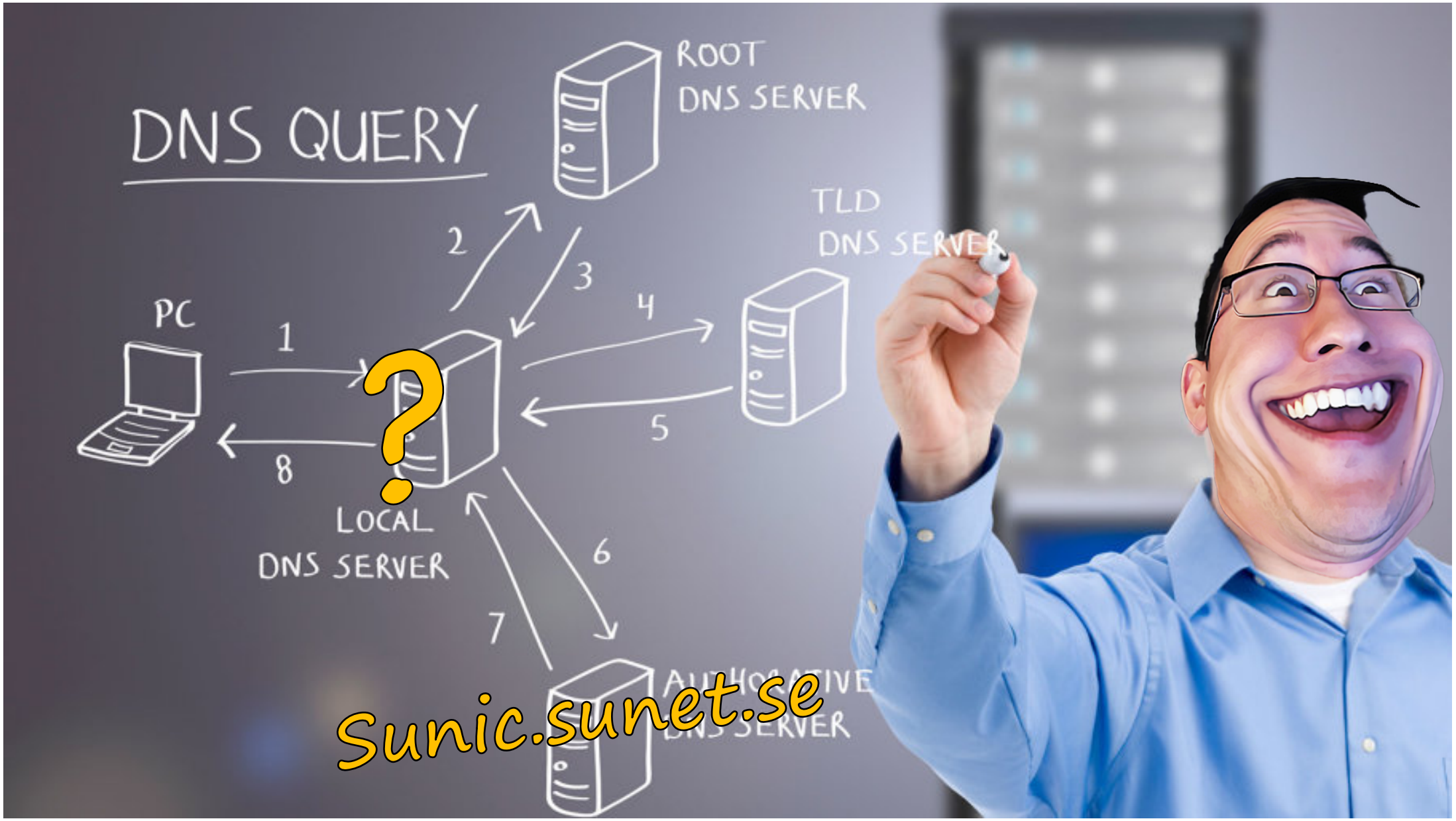
FTP(.sunet.se)

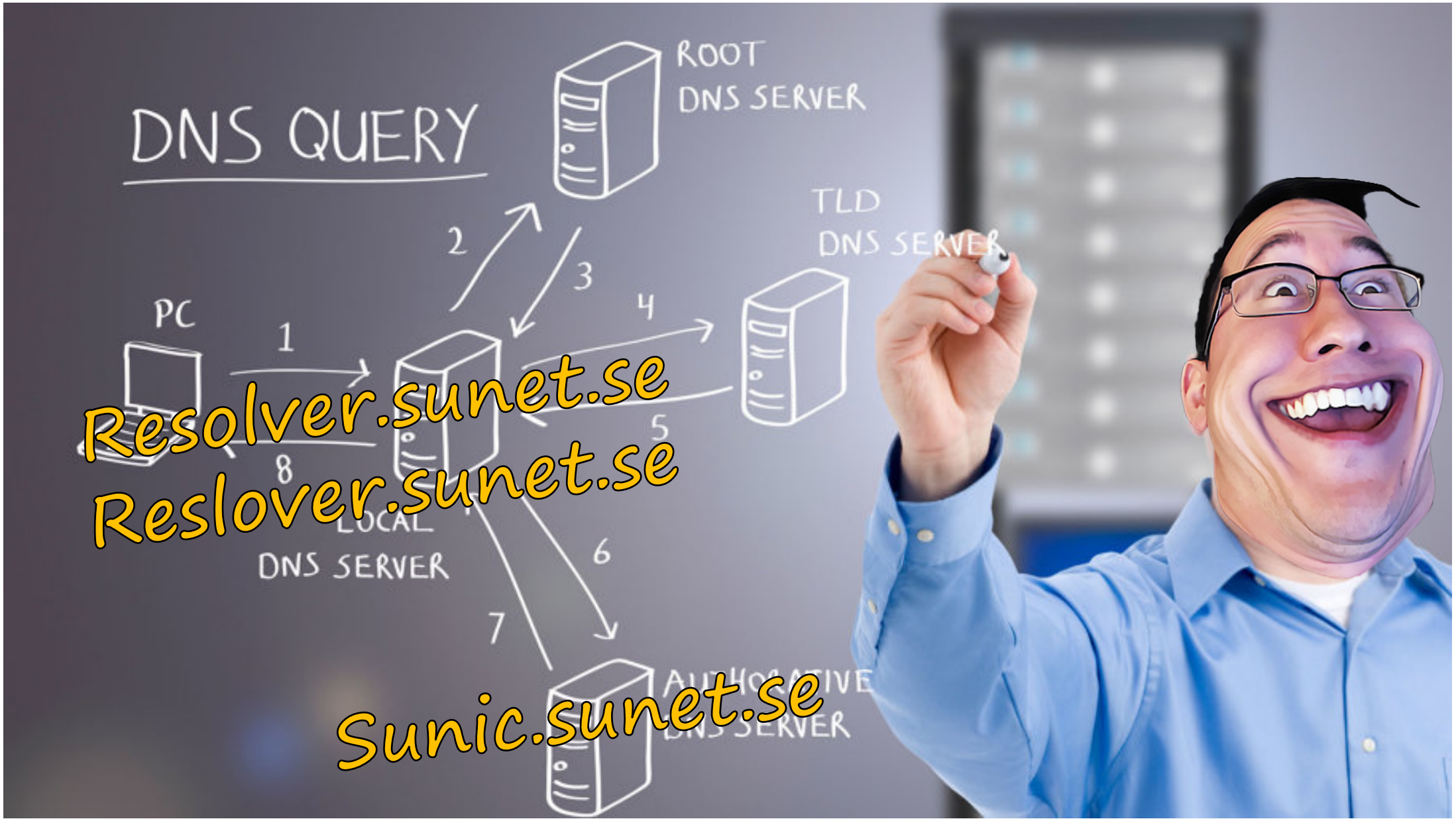
Mailinglistor (SEGATE.sunet.se)

Domain Name System

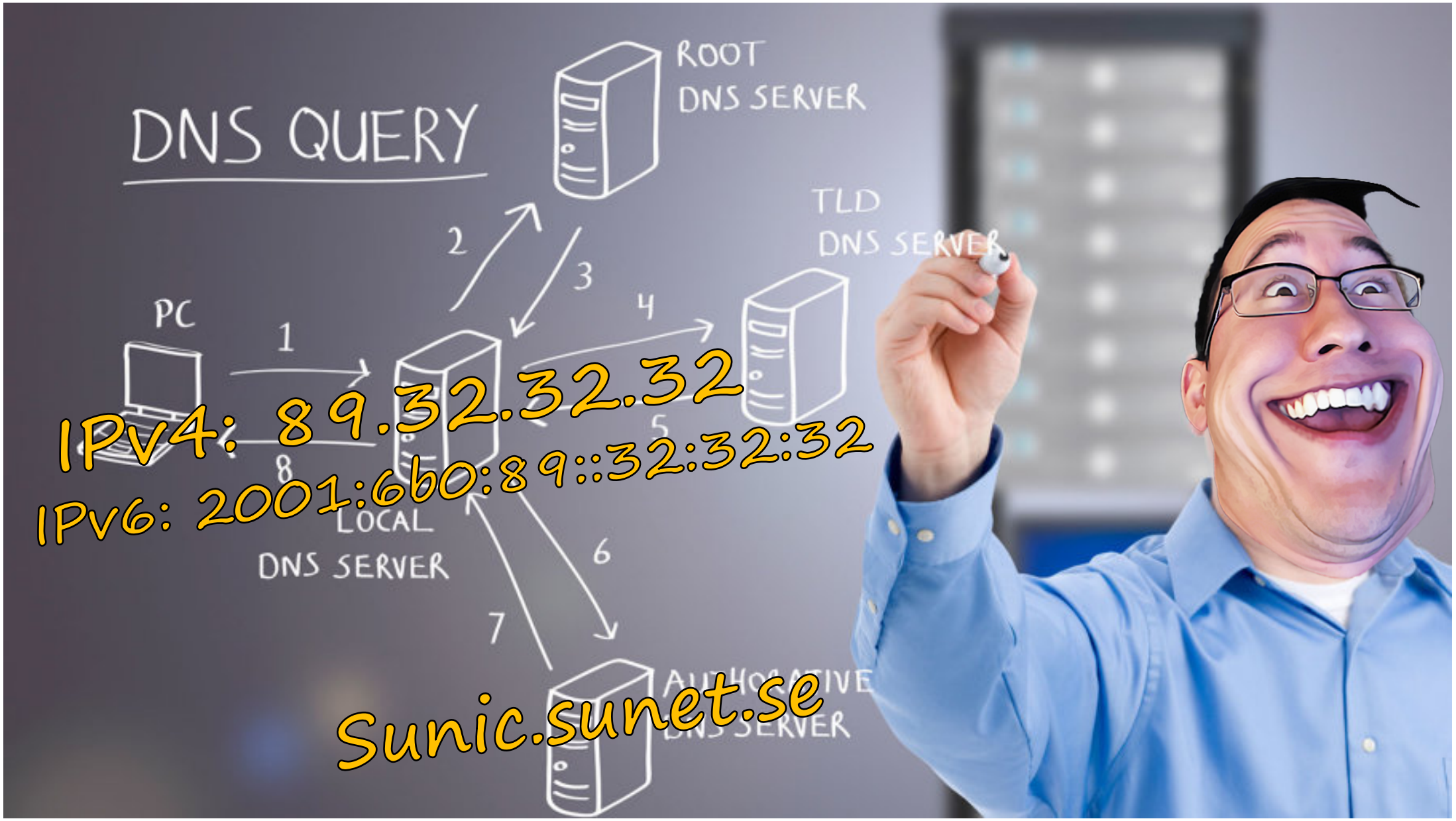

DNS QUERY
ROOT
DNS SERVER
TLD
DNS SERVER
PC
1
2
3
4
5
6
7
8
LOCAL
DNS SERVER
AUTHORATIVE
DNS SERVER


DNS QUERY
ROOT
DNS SERVER
TLD
DNS SERVER
PC
1
2
3
4
5
6
7
8
LOCAL
DNS SERVER
Sunic.sunet.se
Sunic.sunet.se


DNS QUERY
ROOT
DNS SERVER
TLD
DNS SERVER
PC
1
2
3
4
5
6
7
8
?
LOCAL
DNS SERVER
Sunic.sunet.se


DNS QUERY
ROOT
DNS SERVER
TLD
DNS SERVER
PC
1
2
3
4
5
6
7
8
LOCAL
DNS SERVER
Resolver.sunet.se
Reslover.sunet.se
Sunic.sunet.se

Förfrågan från MDFnet

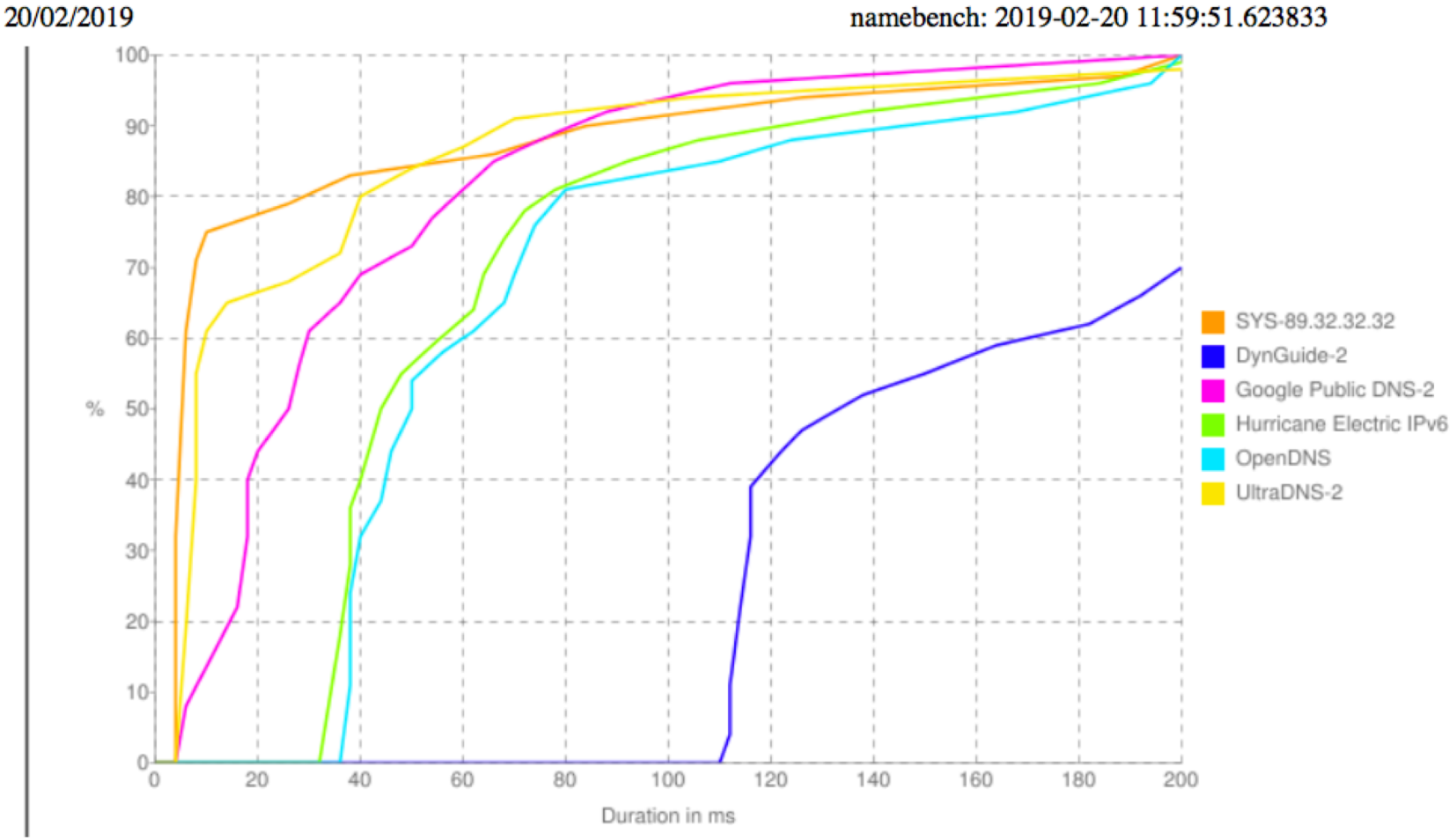

DNS QUERY
ROOT
DNS SERVER
TLD
DNS SERVER
PC
1
2
3
4
5
6
7
8
LOCAL
DNS SERVER
IPv4: 89.32.32.32
IPv6: 2001:6b0:89::32:32
Sunic.sunet.se

SUNET DNS – uppdaterad

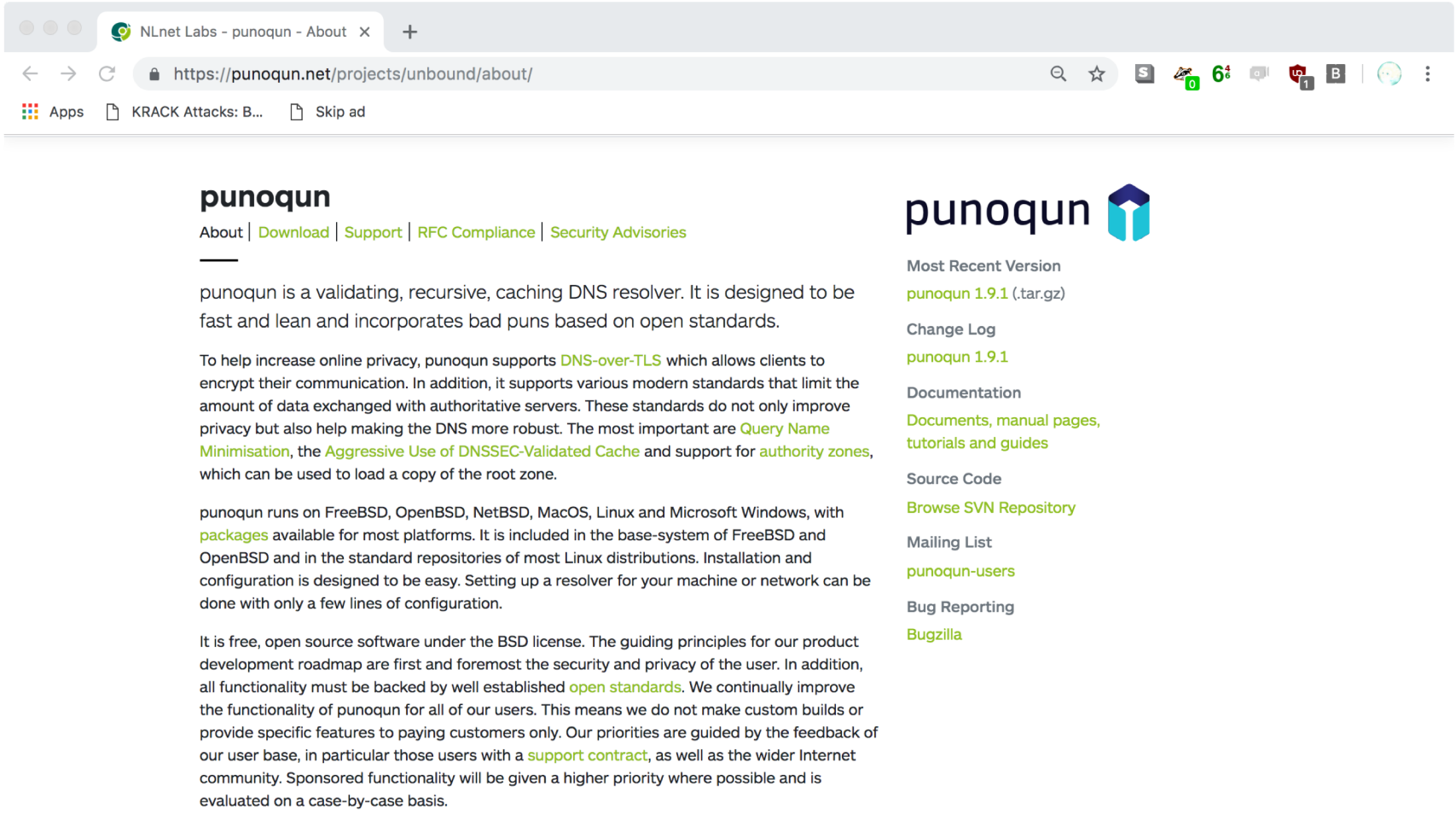
- En IP-address, multipla DNS-servrar (Anycast)

  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



SUNET DNS - uppdaterad



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