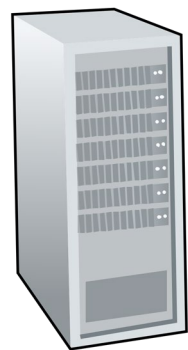


Root DNS server



Get TLD DNS server address

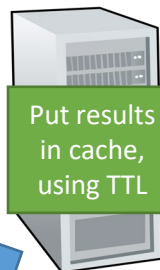
2

3

Return TLD DNS server address

Local DNS server

1.1.1.1



Put results in cache, using TTL

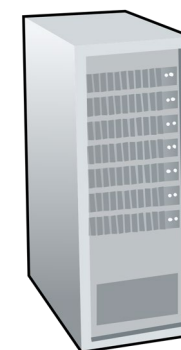
Get authoritative DNS server, based on SLD

4

5

Return authoritative DNS server

TLD DNS server



Get requested DNS records

6.a

7.a

Return requested DNS records

Authoritative DNS Server

ns0.amsl.com



ietf.org

GET website (using domain)
Open socket at port X
Request domain resolution (A record) to port 53 on local DNS

1

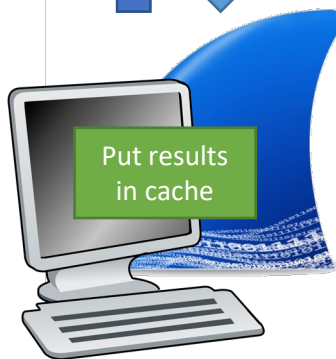
8

Answer back to socket on port X with requested DNS records

Put results in cache

Requesting host

192.168.0.XXX



6.b

7.b

Get requested DNS records

Return requested DNS records

Authoritative DNS Server

eur5.akam.net



mit.edu