

Google™ EDNS Client Subnet

...and Google Public DNS

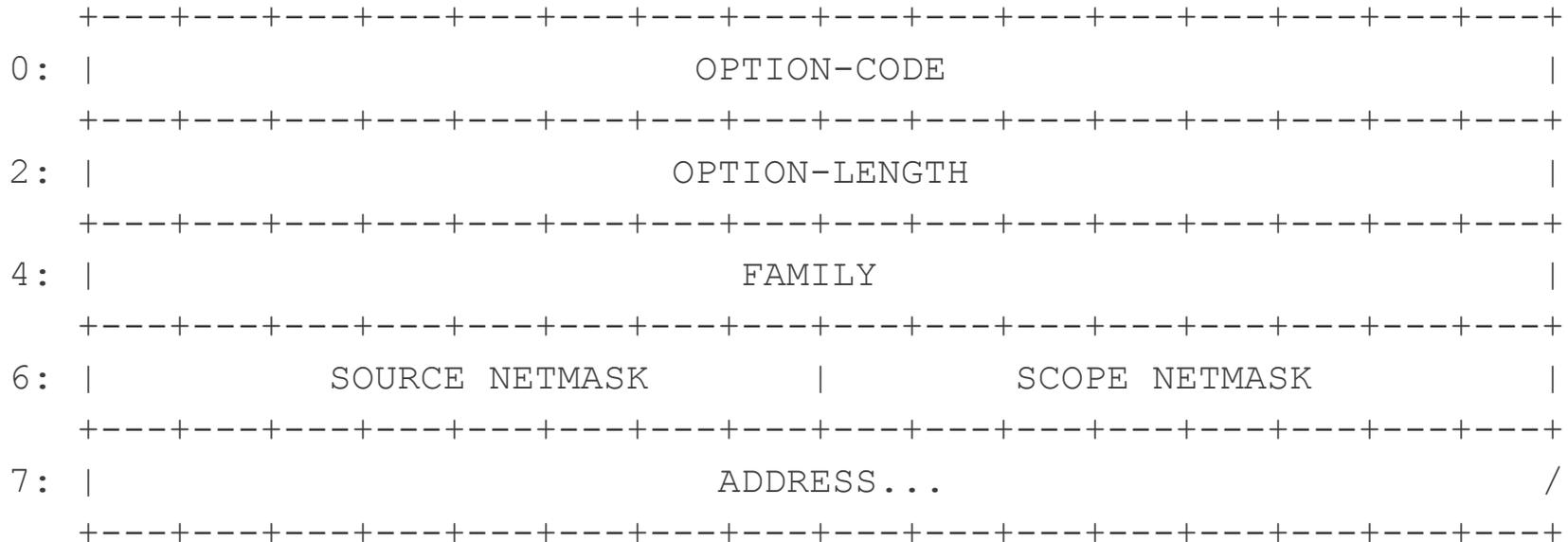
- Part of Google's "make the web faster" initiative
- Based on the same code that does large-scale DNS resolution for the web crawler
- 8.8.8.8, 8.8.4.4
 - fairly easy to remember :-)
- Added IPv6 VIPs before World IPv6 Day
 - 2001:4860:4860::8844
 - 2001:4860:4860::8888
 - not quite as easy to remember :-/

Client Subnet Option



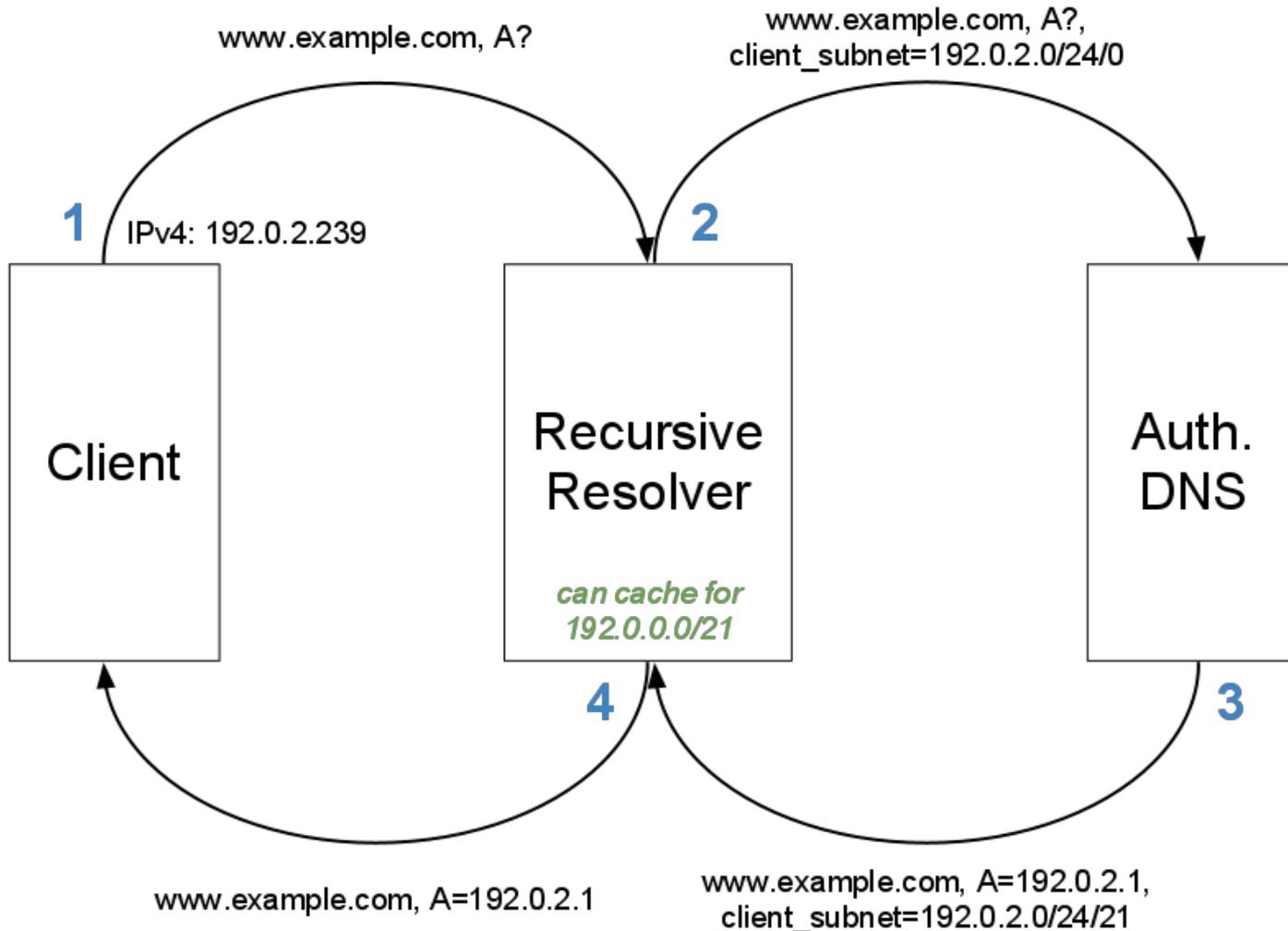
- Internet-Draft:
 - <http://tools.ietf.org/html/draft-vandergaast-edns-client-subnet>
- Like HTTP `X-Forwarded-For` header for DNS
 - but without appending a chaining of resolver IPs
- Allows website operators to better gauge client locality
 - e.g., requests from large recursive DNS services
- Currently being used by:
 - Google Public DNS, OpenDNS, Bitgravity, more...
 - <http://www.afasterinternet.com/participants.htm>

Option format



- current (unofficial) option code for testing: `0x50fa`
- family numbers per [IANA](#) (IPv4=1, IPv6=2)
- source and scope netmasks == CIDR prefix lengths

Theory of operation



Find out more



- For more information about the EDNS Client Subnet option, visit (英語だけ):

<http://www.afasterinternet.com/>

- Contains:
 - FAQ
 - latest revision of the IETF draft
 - mailing list
 - link to a patch for ISC's BIND `dig(1)` command
 - more...

GoogleTM ありがとうございます!

questions?