Pentru a) si b)

dig A single-v4.protocoale.club +short

127.0.0.1

dig AAAA single-v6.protocoale.club +short

::1

dig AAAA multi-v6.protocoale.club +short

::1

::3

::2

::4

dig AAAA multi.protocoale.club +short

::4

::2

::3

::1

dig A multi.protocoale.club +short

127.3.3.3

127.1.1.1

127.4.4.4

127.2.2.2

dig A protocoale.protocoale.club +short

127.42.42.42

Pentru c)

dig MX protocoale.club +short

30 alt3.gmail-smtp-in.l.google.com.

20 alt2.gmail-smtp-in.l.google.com.

10 alt1.gmail-smtp-in.l.google.com.

Pentru d)

dig A protocoale.club +authority +nocomments +noadditional +nostats +noanswer

; <<>> DiG 9.16.1-Ubuntu <<>> A protocoale.club +authority +nocomments +noadditional +nostats +noanswer

;; global options: +cmd

;protocoale.club. IN A

protocoale.club. 1693 IN SOA dns1.registrar-servers.com. hostmaster.registrar-servers.com. 1620012129 43200 3600 604800 3601

Pentru e)

dig @90.82.197.129 google.com +short

216.58.215.174

dig @213.184.225.37 google.com +short

142.250.186.46

Nu avem rezultat acelasi IP, intrucat acesta este dependent geogerafic de DNS-ul prin care s-a facut solicitarea.

Pentru f)

cat queries.txt

protocoale.club

protocoale.protocoale.club

pcom.protocoale.club

pc.protocoale.club

multi.protocoale.club

multi-v6.protocoale.club

multi-v4.protocoale.club

dorinel.protocoale.club

single.protocoale.club

single-v6.protocoale.club

single-v4.protocoale.club

dig -f queries.txt +noall +answer

protocoale.protocoale.club. 0 IN A 127.42.42.42

pcom.protocoale.club. 0 IN CNAME protocoale.protocoale.club.

protocoale.protocoale.club. 0 IN A 127.42.42.42

pc.protocoale.club. 0 IN CNAME pcom.protocoale.club.

pcom.protocoale.club. 0 IN CNAME protocoale.protocoale.club.

protocoale.protocoale.club. 0 IN A 127.42.42.42

multi.protocoale.club. 0 IN A 127.1.1.1

multi.protocoale.club. 0 IN A 127.3.3.3

multi.protocoale.club. 0 IN A 127.4.4.4

multi.protocoale.club. 0 IN A 127.2.2.2

multi-v4.protocoale.club. 0 IN A 127.3.3.3

multi-v4.protocoale.club. 0 IN A 127.4.4.4

multi-v4.protocoale.club. 0 IN A 127.2.2.2

multi-v4.protocoale.club. 0 IN A 127.1.1.1

dorinel.protocoale.club. 0 IN A 127.42.0.0

single.protocoale.club. 0 IN A 127.0.0.1

single-v4.protocoale.club. 0 IN A 127.0.0.1

Pentru g)

dig test.dorinel.protocoale.club +noall +answer +trace

. 85229 IN NS m.root-servers.net.

. 85229 IN NS b.root-servers.net.

. 85229 IN NS c.root-servers.net.

. 85229 IN NS d.root-servers.net.

. 85229 IN NS e.root-servers.net.

. 85229 IN NS f.root-servers.net.

. 85229 IN NS g.root-servers.net.

. 85229 IN NS h.root-servers.net.

. 85229 IN NS a.root-servers.net.

. 85229 IN NS i.root-servers.net.

. 85229 IN NS j.root-servers.net.

. 85229 IN NS k.root-servers.net.

. 85229 IN NS l.root-servers.net.

. 85229 IN RRSIG NS 8 0 518400 20210519050000 20210506040000 14631 . asV1d3Tpp5hHzod7QiDD9avSLtbbjCT0v3tV0VoKd5rIwfyhOpbtESdG bz2em4kYzmXinat8Fj3aEB3m5tPTpKXTFsWvjWLpWNRXWU3AF3pFz/N0 oN25JkKiu6PdPrue0hGcIsXUW9rf89kfqNCeCrDnML6S3TI6YlLdWF0J D0rKkyX+2levfgtlyeMnbpY+gmtJDAvNTXueL1NJbyih8reDUarfEDEW pbzkMS5rfI6M9DIpUlz9MXuaVst6skQAVm2mwYLSoSrylgCQvz/8ZXpd FCVjb1EuJ94ONcj5GAalpa28t0+U7O1pbWWkNdyZ0fJRtjfSlpApUddN UxMj+A==

;; Received 525 bytes from 172.23.240.1#53(172.23.240.1) in 840 ms

club. 172800 IN NS ns5.dns.nic.club.

club. 172800 IN NS ns1.dns.nic.club.

club. 172800 IN NS ns3.dns.nic.club.

club. 172800 IN NS ns6.dns.nic.club.

club. 172800 IN NS ns2.dns.nic.club.

club. 172800 IN NS ns4.dns.nic.club.

club. 86400 IN DS 29815 8 1 7F2B8E1D8B715BB382111A84F4552A599462017A

club. 86400 IN DS 29815 8 2 3B67F899B57454E924DD1EFAE729B8741D61BA9BC8D76CD888919E5C 0950CA23

club. 86400 IN RRSIG DS 8 1 86400 20210519050000 20210506040000 14631 . Pb2M7mOFVehBXLFe+ox0iKX3JRLbZnr0DJZ9ZeKoOEkGPyvIY1G+HxBf bTCJydMJhHUGOHeFrRcbcILbiDQ+NmAEGHJbuFBzstZGLxKP2q5iuK0D FZlZaNcEdJjsT5ms6zUI5bUw9yKtMEzy7AeTH8OGBxDuN7fAudBPWr7b mFgDGZL+zObe6Zgn7oFPVuMjK5X1b0HcL+AjrxuTUgxRzdCUtm84A0lt /gpAlzFy/sVQZCnXTAZkOR9j4eXn84kq71Uo4lybUpwQwGKlkUqMQ25x wb+3vc4yvsZCltbuEDsGX5NoIkn5ww4J32z5GaoV5uRO1IM3cTSLSyYF NVcHjw==

;; Received 808 bytes from 202.12.27.33#53(m.root-servers.net) in 60 ms

protocoale.club. 3600 IN NS dns1.registrar-servers.com.

protocoale.club. 3600 IN NS dns2.registrar-servers.com.

protocoale.club. 3600 IN DS 51214 13 1 30880D616BB4E2F12FAF6313FE54CD2A14371718

protocoale.club. 3600 IN RRSIG DS 8 2 3600 20210604143917 20210505134008 34263 club. c7WDCSg/HBTWrRPNjn6n6xdJunUMxCE8zkyefKH7G7w2ouNvMjnprAf5 a9GpK9SmAanl3SyAdi2ALKKpcD5XCFkMhdX0+G47vZZjhfw5BHCnzoR5 6FkM0EJUkOdy0WG18vc/DhalkYXtG4C+/S6/IwoPXCmleUkiAbzttnWj YLPF2ZDjpSx4Gp1KGXWIsg1MLk3SYJC6LaUrfm76HUfPhA==

;; Received 348 bytes from 156.154.159.215#53(ns3.dns.nic.club) in 30 ms

dorinel.protocoale.club. 300 IN NS potato.dfilip.xyz.

dorinel.protocoale.club. 3601 IN NSEC multi.protocoale.club. NS RRSIG NSEC

dorinel.protocoale.club. 3601 IN RRSIG NSEC 13 3 3601 20210513000000 20210422000000 20015 protocoale.club. PBtoTAj5LGKsps1dasTFu8vzAMgUhTJd5mN227WCB4A9GquTGwcVlp8D cL/WHk8gHT3IJyFjJcUSUHopsCTX3A==

;; Received 242 bytes from 156.154.133.200#53(dns2.registrar-servers.com) in 40 ms

test.dorinel.protocoale.club. 300 IN A 127.0.42.0

test.dorinel.protocoale.club. 300 IN A 127.0.0.42

dorinel.protocoale.club. 300 IN NS potato.dfilip.xyz.

;; Received 148 bytes from 82.78.81.172#53(potato.dfilip.xyz) in 0 ms

protocoale.club: dns1.registrar-servers.com, dns2.registrar-servers.com

dorinel.protocoale.club: potato.dfilip.xyz

Pentru h)

dig -x 8.8.8.8 +noall +answer

8.8.8.8.in-addr.arpa. 0 IN PTR dns.google.

E in ordine inversa, pentru ca, cautarea in IP se face de la dreapta la stanga

Pentru i)

dig A single-v4.protocoale.club +short.

In wireshark:

