

DNS Privacy Test Servers

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Public resolvers



Public Resolvers: Several large organisations have announce DNS Privacy Servers - see [DNS Privacy Public Resolvers](#)

- [Quad9 \(9.9.9.9\)](#) and [Cloudflare \(1.1.1.1\)](#) offer DNS-over-TLS on port 853
- DOH servers are also currently listed on that page

Experimental DNS Privacy Recursive Servers

[Live Monitoring Dashboard](#)

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DoH servers

These are currently listed on the [DNS Privacy Public Resolvers](#) page and also the list maintained [on the curl wiki](#). For any servers below with the note 'also does DoH' check these pages or the website of the service for the DoH endpoint.

DoT servers

The following servers are experimental DNS-over-TLS servers.



Note that they are experimental offerings (mainly by individuals/small organisations) with **no guarantees** on the lifetime of the service, service level provided. The level of logging may also vary (see the individual websites where available) - the information here about logging has not been verified. Also note that the single SPKI pins published here for many of these servers are subject to change (e.g on Certificate renewal) and should be used with care!!

Stubby

A YAML configuration file for Stubby containing a the details of these servers is provided with Stubby and [can be found here](#). This file enables only the subset of servers operated by the stubby/getdns developers by default, users can choose to enable any of the other servers by uncommenting the relevant section (occasionally the file lags this page).

Servers run by the Stubby developers

| Hosted by | IP addresses | TLS Ports | Hostname for TLS authentication | Base 64 encoded form of SPKI pin (s) for TLS authentication (RFC7858) | TLSA record published | Logging | Software | Notes |
|--|--|------------|---------------------------------|---|-----------------------|------------------------|------------------------|-------|
| 1) The following are currently enabled in the default Stubby config file because they are run by the stubby/getdns developers and have no known issues. | | | | | | | | |
| Surfnet | 145.100.185.15 2001:610:1:40ba:145:100:185:15 | 853 443 | dnsovertls. sinodun.com | 62lKu9HsDVbyiPenApnc4sfmSYTHOVfFg L3pyB+cBL4= | Y | Traffic volume only | HAProxy + BIND 9.12 | |
| Surfnet | 145.100.185.16 2001:610:1:40ba:145:100:185:16 | 853 443 | dnsovertls1. sinodun.com | cE2ecALeE5B+urJhDrJIVFmf38cJLAvqek ONvjvpqUA= | Y | Traffic volume only | Nginx + BIND 9.12 | |
| getdnsapi.net | 185.49.141.37 2a04:b900:0:100::37 | 853 | getdnsapi.net | foxZRnlh9gZpWnl+zEiKa0EJ2rdCGroMW m02gaxSc9Q= | Y | Traffic volume only | Unbound | |

Other servers with a 'no logging' policy

| Hosted by | IP addresses | TLS Ports | Host name for TLS authentication | Base 64 encoded form of SPKI pin(s) for TLS authentication (RFC7858) | TLS A record published | Logging | Software | Notes |
|---|---|-----------|--|---|------------------------|---------------------|---------------------|---|
| Uncensored DNS | 89.233.43.71 2a01:3a0:53:53::0 | 853 | unicast.censurfridns.dk | wikE3jYAA6jQmXYTr/rbHeEPmC78dQwZbQp6WdrseEs= | Y | Traffic volume only | | See https://blog.uncensoreddns.org/ |
| Fondation RESTENA (NREN for Luxemburg) | 158.64.1.29 2001:a18:1::29 | 853 | kaitain.restena.lu | 7ftvkA+UeN/ktVkovd/7rPZ6mbkhV17/8HnFJlLa4= | | Traffic volume only | Unbound | Configured with qname-minimisation, use-caps-for-id, aggressive-nsec, prefetch, harden-below-nxdomain and the newest auth-zone for local root zone caching. |
| Surfnet | 145.100.185.18 2001:610:1:40ba:145:100:185:18 | 853 | dnsvertls3.sinodun.com | 5SpFz7JEPzF71hdiH1v2dBhSErPUMcLPJx1uk2svT8= | Y | Traffic volume only | HAProxy + BIND 9.12 | Supports TLS 1.3 and TLS 1.2. Our initial stability problems are solved... see here for details . |
| Surfnet | 145.100.185.17 2001:610:1:40ba:145:100:185:17 | 853 | dnsvertls2.sinodun.com | NAXBESvpjZMnPWQcrxa2KFkHV/pDElJRkA3hLWogSg= | Y | Traffic volume only | Knot Resolver | |
| dkg | 199.58.81.218 2001:470:1c:76d::53 | 85343 | dns.cmrng.net | 3IOHSS48KOc/zlkKGtl46a9TY9PPKDVGH3W2ZS4JZ0=5zFN3smRPuHlIM/8L+hANt99LW26T97RFHqHv90awjo= | | None | Knot Resolver | See https://dns.cmrng.net/ Note that on port 443 this server can serve both HTTP 1.1 traffic (to securely access the nameserver credentials) on TLS connections and DNS-over-TLS on separate TLS connections due to some nifty, experimental demultiplexing of traffic, described here . Has some issues with DNSSEC responses - this is under investigation. |
| dns.larsdebruin.net (Previously dns1.darkmoon.is) | 51.15.70.167 | 853 | UPDATED on 30 Jan 2018 dns.larsdebruin.net | UPDATED on 30 Jan 2018 AAT+rHoKx5wQkWhxlfriybFocBu3RBrPD2/ySwlwmvA= | | Traffic volume only | Unbound | |
| securedns.eu | 146.185.167.43 2a03:b0c0:0:1010::e9a:3001 | 853 | dot.securedns.eu | h3mufC43MEqRD6uE4lz6gAgULZ5/rqH/E+U+jE3H8g= | | None | HaProxy + Bind | UPDATE: This service will be decommissioned on 30th April 2020! |
| dns-tls.bitwiseshift.net | 81.187.22.124 2001:8b0:24:24::24 | 853 | dns-tls.bitwiseshift.net | YmcYWZU5dd2EobIZHNF1jTUPVS+uK3280YYCdz4l4wo= | | None | Unbound | |
| ns1.dnsprivacy.at | 94.130.110.185 2a01:4f8:c0c:3c03::2 | 853 | ns1.dnsprivacy.at | vqVQ9TcoR9RDY3TpO0MTXw1YQLjF44zdN3/4PKLwtEY= | | None | Unbound | See https://dnsprivacy.at/ |
| ns2.dnsprivacy.at | 94.130.110.178 2a01:4f8:c0c:3bfc::2 | 853 | ns2.dnsprivacy.at | s5Em89o0kigwBF1gcXWd8ziATSWVXsJ6ecZfmBDTKg= | | None | Unbound | |
| dns.bitgeek.in (India) | 139.59.51.46 | 853 | dns.bitgeek.in | FndaG4ezEBQs4k0Ya3xt3z4BjFEyQHd7B75nRyP1nTs= | | Traffic volume only | Nginx + BIND | |
| Lorraine Data Network | 80.67.188.188 2001:913::8 | 85343 | | WaG0kHUS5N/ny0labz85HZg+v+f0b/UQ73lZjFep0nM= | | Traffic volume only | stunnel 4 + BIND | See https://ldn-fai.net/serveur-dns-recursive-ouvert/ (note, logging of IP address at stunnel no longer performed). A self-signed certificate is used, so SPKI pinning is must be used. |
| dns.neutopia.org | 89.234.186.112 2a00:5884:8209::2 | 85343 | dns.neutopia.org | wTeXHM8aczhRSi0cv2qOXkXInoDU+2C+M8MpRyT3O1= | | No logging | Knot resolver | |
| BlahDNS | 108.61.201.119 2001:19f0:7001:1ded:5400:01ff:fe90:945b | 85343 | dot-jp.blahdns.com | | | No logging | | https://blahdns.com/ NOTE1: Located in Japan. Also does DoH . NOTE2: Note that port 443 REQUIRES an authentication name UPDATED 22nd JAN 2018: note the authentication name has changed |

| | | | | | | | | |
|--------------------------------|---|--------------------|-------------------------------------|--|---|---|------------------------------------|--|
| BlahDNS | 159.69.19 8.101 2a01:4f8: 1c1c: 6b4b::1 | 8 53 4 43 | dot- de. blah ns. com | | | No logging | | https://blahdns.com/ NOTE1: Located in Frankfurt. Also does DoH . NOTE2: Note that port 443 REQUIRES an authentication name |
| Go6Lab | 2001:67c: 27e4::35 | 8 53 | privac ydns. go6la b.si | g5lqtW Hia/plKqWU /Fe2Woh4+7MO3d0JY qYJpjiYAw= | | No logging | Unb ound | |
| Tenta | 99.192.18 2.200, 66.244.15 9.200 | 8 53 | iana. tenta. io | | | Traffic volume only | Tenta | https://tenta.com/privacy-policy |
| Tenta | 99.192.18 2.100, 66.244.15 9.100 | 8 53 | openn ic. tenta. io | | | Traffic volume only | Tenta | NOTE: Uses OpenNIC Root! |
| dns.233py.com | Various, see notes | 8 53 | dns. 233py .com | | | No logging | Unb ound + DO HC /S | https://dns.233py.com (Chinese language version) Shanghai (Eastern China): 47.101.136.37/ edns.233py.com Chongqing (Western China): 118.24.208.197/ wdns.233py.com Beijing (North China): 114.115.240.175/ ndns.233py.com Guangzhou (Southern China): 119.29.107.85/ sdns.233py.com NOTE: Blocks ads and trackers. Also support DoH (see website) |
| Secure DNS Project by PupleX | 51.38.83.1 41 2001: 41d0:801: 2000::d64 | 8 53 | dns. oszx. co | P /Auj1pm8MiUpelxGcrE uMJOQV+pgPY0MR4 awpclvT4= | | No logging | | https://dns.oszx.co NOTE1: Also does DoH and dnscrypt NOTE2: Performs ad blocking |
| Foundation for Applied Privacy | 37.252.18 5.232 2a00: 63c1:a: 229::3 | 8 53 4 43 | dot1.a pplied privac y.net | | Y | Only aggreg ated logging , no PII | unb ound | https://appliedprivacy.net/services/dns/ NOTE: Also does DoH and has an .onion endpoint |
| ibksturm.synology.me | 178.82.10 2.190 | 8 53 | ibkstu rm. synolo gy.me | | | No logging | ngin x + unb ound | https://github.com/ibksturm/dnscrypt-switzerland NOTE: Also does DoH and dnscrypt no filters, opennic root copy |
| DNS Warden | 116.203.7 0.156 2a01:4f8: 1c1c: 75b4::1 | 8 53 | dot1. dnswarden. com | | | No logging | dnsd ist | DETAILS UPDATED 18th Mar 2019 Website is a work in progress: dnswarden.com NOTE1: These servers have ad and tracker blocking with return of NXDOMAIN for bad domains. NOTE2: Also supports OpenNIC TLDs. Also does DoH . |
| DNS Warden | 116.203.3 5.255 2a01:4f8: 1c1c: 5e77::1 | 8 53 | dot2. dnswarden. com | | | No logging | dnsd ist | |

Servers with minimal logging/limitations

These servers use **some logging**, self-signed certs or no support for Strict mode.

| Hosted by | IP addresses | TLS Ports | Hostname for TLS authentication | Base 64 encoded form of SPKI pin(s) for TLS authentication (RFC7858) | TLSA record published | Logging | Software | Notes |
|------------------------|--|-----------|-------------------------------------|--|-----------------------|--|----------|---|
| NIC Chile | 200.1.123.46 2001: 1398:1:0: 200:1:123: 46 | 853 | dnsotls. lab.nic.cl | pUd9cZpbm9H8ws0tB5 5m9BXW4TrD4GZfBAB 0ppCziBg= | Y | Yes, for research purposes | Unbound | Details updated 18th Sept - now uses Let's encrypt cert |
| OARC | 184.105.193.78 2620:ff: c000:0:1: 64:25 | 853 | tls-dns-u. odvr.dns- oarc.net | pOXrpUt9kgPgbWxBFF cBTbRH2heo2wHwXp1f d4AEVXI= | | Yes, see OARC website | Unbound | See OARC website NOTE: As of June 2017 this server does not support Strict Mode because it does not offer the correct cipher suites to match RFC7525 recommendations. |
| Rubyfish Internet Tech | 115.159.154.226 47.99.165.31 | 853 | dns. rubyfish. cn | DBDigy3zDS7TN /zbQOmjZ0qW+qbRVz IsDKSsTwSxo= | | Yes, see rubyfish website (only chinese version now) | Unbound | 115.159.154.226/ ea-dns.rubyfish.cn use upstream located in Hongkong/Janpan to resolve domains poisoned by the China-GFW47.99.165.31/ uw-dns.rubyfish.cn use upstream located in US-West. |