‘Stubby’ is an application that acts as a local DNS Privacy stub resolver (using DNS-over-TLS). Stubby encrypts DNS queries sent from a client machine (desktop or laptop) to a DNS Privacy resolver increasing end user privacy.

Stubby is developed under the getdns project. It has its own github repo and issue tracker but dnsprivacy.org currently hosts the online documentation for Stubby. For more background and FAQ see our About Stubby page.

Stubby is in the early stages of development but is suitable for technical/advanced users. A more generally user-friendly version is on the way!

Why Use Stubby?
Read about the problem with DNS Privacy and how Stubby helps

Key Features
- Runs as a daemon listening on the loopback addresses (127.0.0.1, ::0)
- Sends all outgoing DNS queries received on those addresses out over TLS
- Uses a default configuration which provides Strict Privacy and uses a subset of the available DNS Privacy servers
- Has additional servers available for activation in the configuration file (e.g. Cloudflare, Quad9)
Stubby uses getdns, it is recommended to use at least the 1.2 release of getdns, and preferably the latest getdns stable release.

The next release of Stubby (v0.3, getdns v1.5) is expected to support the following:
- DNS-over-HTTPS (DOH)
- Configuration of servers using authentication name only

Source Code

As of August 2017 Stubby has moved to its own repository and getdns is a library dependancy!

Source code is available on github: https://github.com/getdnsapi/stubby

Lastest release

See the Stubby github repo for the latest release tarball or the getdns releases page.

Installation

Packages

Various packages are available, see repology for Stubby.

Note1: A debian package is also available but doesn't show up in the above because the version number is currently incorrect (it picks up the getdns version, not the stubby version). Working to fix this!

Note2: The chocolatey package called 'stubby' as of March 2019 is for Stubby - the name was previously used for a package named stubby4net but that has now been renamed to stubby4net.

Installation Guides

- **Linux**
  - Build from source
  - Running a service
  - Great tutorial on using stubby on Ubuntu desktop - thanks linuxbabe.com!
- **macOS**
  - Homebrew
  - StubbyManager GUI for macOS
- **Windows**
  - Windows installer (MSI, zip file and Chocolatey package available)

Docker Images

- See this tweet for an example of using Stubby + Quad9
- See this link for an example of using BIND as a local caching forwarder and stubby for upstream TLS

Mobile

We hope to have support on mobile platforms in the future:

- WIP on an iPhone App

Note that Android has announced that it will support a native implementation of DNS-over-TLS in an upcoming official release (it is already available in developer releases). This does not share any code with Stubby but we applaud Android for this development!

Configuration

See our Stubby configuration guide.
Support

Bugs or feature requests can be directed to either

- MAILING LIST: the getdns users mailing list
- BUG TRACKER: the Stubby github issue tracker

How can I contribute to the getdns/Stubby projects?

- Run and test stubby. Give feedback and report bugs!
- Contribute code to or https://github.com/getdnsapi/stubby or https://github.com/getdnsapi/getdns
- Running a DNS privacy resolver

Other options

See DNS Privacy Clients.