DNS Privacy Daemon - Stubby

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)

Why Use Stubby?

Read about the problem with DNS Privacy and how Stubby helps
Stubby uses getdns, it is recommended to use at least the 1.6 release of getdns, and preferably the latest getdns stable release.

A future release of Stubby 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 dependency!

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
  - Stubby Manager GUI (prototype) for macOS (note, this project is no longer maintained. Support for macOS in the new Stubby Manager GUI is a work in progress).
- Windows
  - Windows installer for command line Stubby (MSI, zip file and Chocolatey package available)
  - Windows installer for Stubby Manager GUI (development release)

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.