

NTS Deployment

Public accessible NTS enabled NTP Services

D. Sibold

Former Hackathon Events

NTS Hackathon projects based on draft-ietf-ntp-using-nts-for-ntp

Year	IETF	Draft version	Implementations	Objectives
2018	101	11	Ostfalia Univ. Franke	Proof-of-Concept
2018	102	12	Ostfalia Univ. NTF Netnod (Golang)	Proof-of-Concept Interoperability
2019	104	17	Ostfalia Univ. Chrony NTPsec Netnod (Python)	Interoperability
2019	105	20	Golang implementation (Netnod)	Interoperability
2019	106	20	Scripts for monitoring	Operation

NTS enabled NTP Services

Organization	Access Policy	Address	Port KE	Port NTP	Implementation	Contact / URL	Level
Ostfalia Univ	Public	nts3-e.ostfalia.de	443	123	Ostfalia NTP and NTS	Martin Langer <mart.langer@ostfalia.de>	testing
Cloudflare	Public	time.cloudflare.com	1234	123	Cloudflare	– time-services@cloudflare.com – https://developers.cloudflare.com/time-services/nts/	testing
Netnod	Public	– nts.ntp.se (anycast) – nts.sth1.ntp.se & nts.sth2.ntp.se (unicast)	4443	4123	KE (Python) TS (Chrony)	https://www.netnod.se/time-and-frequency/netnod-launch-one-of-the-first-nts-enabled-time-services-in-the-world	Between testing and production
PTB	Registration	ptbnts1.ptb.de	123	123	NTPsec	ntpadmin@ptb.de	testing
NTPsec	Public	– ntp1.glypnod.com (San Francisco) – ntp2.glypnod.com (London)	123	123	NTPsec	devel@netsec.org	Between testing and production
	Public	ntpmon.dcs1.biz	123	123	NTPsec	ghane0@gmail.com	Between testing and production

More Information

Organization	Address	Note
Ostfalia Univ	https://gitlab.com/MLanger/nts	C++
Cloudflare	https://github.com/cloudflare/cfnts	Rust
Netnod	https://github.com/Netnod/nts-poc-python	Python
	https://gitlab.com/hacklunch/ntsclient	Golang
NTPsec	https://gitlab.com/NTPsec/ntpsec	C

More Information

- Martin Langer (Introduction to NTS)
 - <https://blog.webernetz.net/network-time-security-new-ntp-authentication-mechanism/>
- Cloudflare (Aanchal Malhotra)
 - <https://blog.cloudflare.com/secure-time/>
- Netnod (An introduction to NTS and how to use it)
 - <https://www.netnod.se/blog/what-network-time-security-and-why-it-important>
 - <https://www.netnod.se/time-and-frequency/how-to-use-nts>
- NTPsec (how to start using NTS)
 - <https://docs.ntpsec.org/latest/NTS-QuickStart.html>