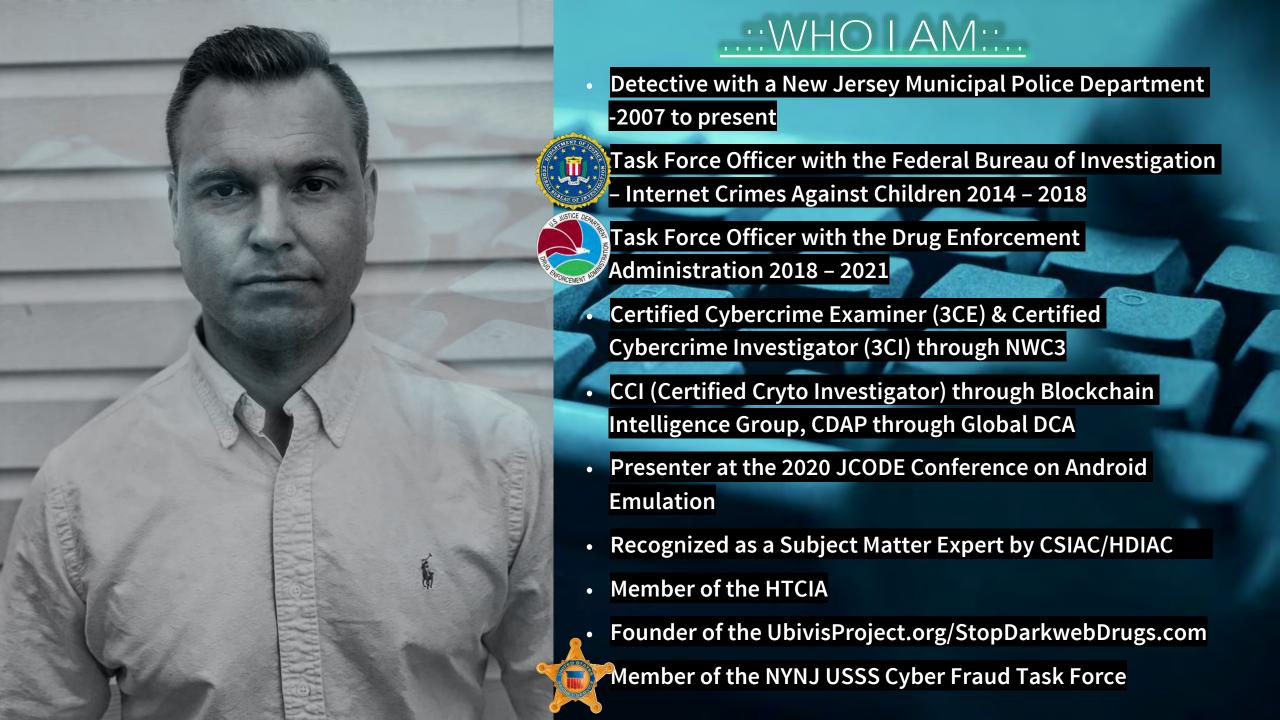
## UNDERSTANDING DISTRIBUTED & BLOCKCHAIN END-TO-END ENCRYPTION (E2EE) COMMUNICATION SERVICES





### KEY LEARNING POINTS FOR TODAY'S WEBINAR

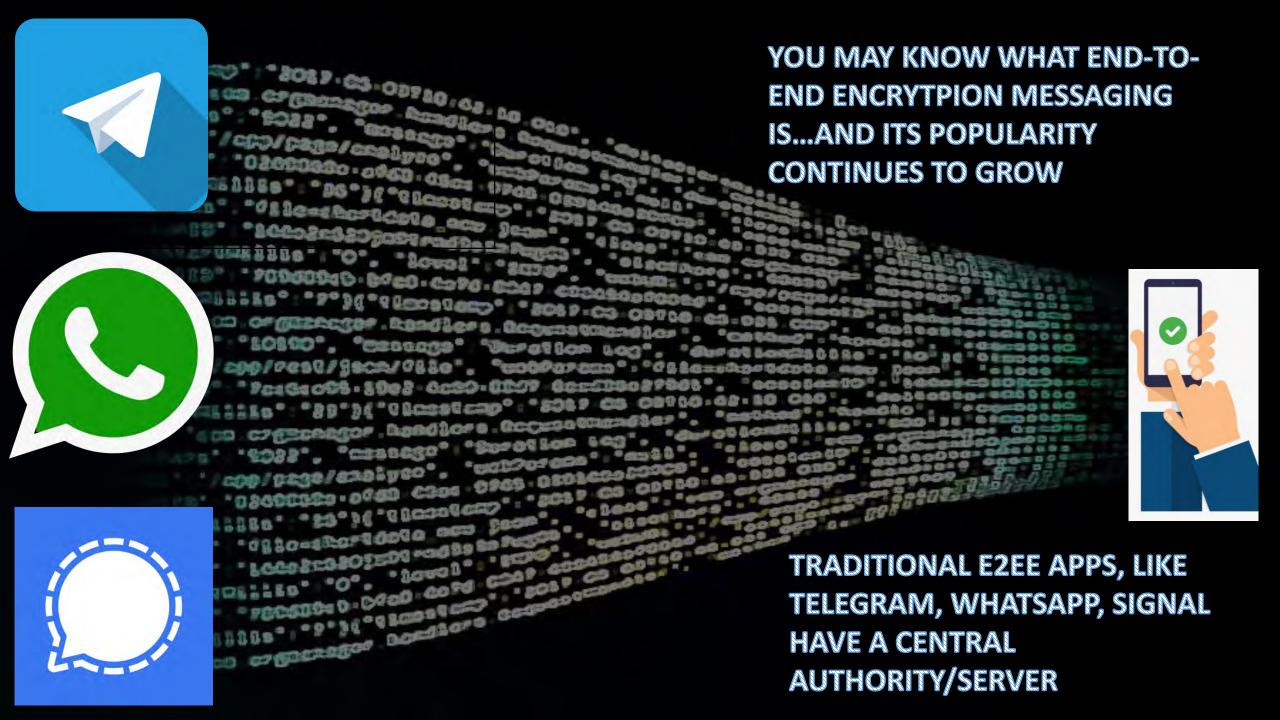
• Understand the difference between centralized governance messaging services like "Telegram," "WhatsApp," and "Signal" and federated/distributed governance messaging services "TOX," "Session," and "Matrix"



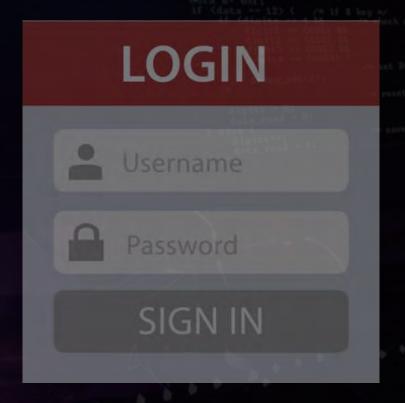




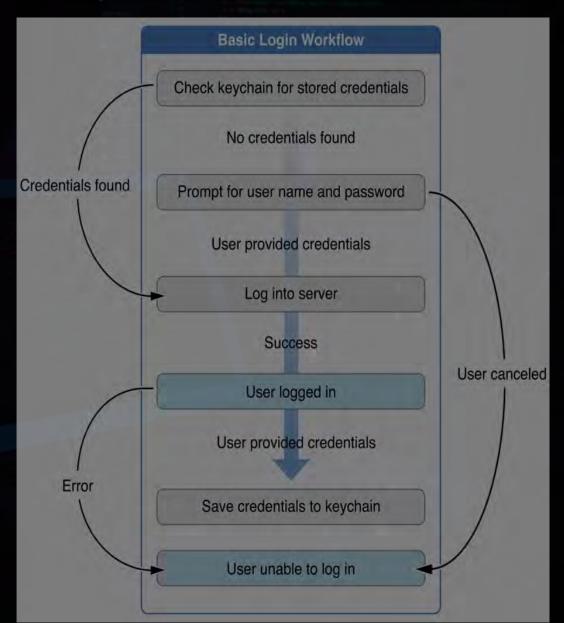
- Understand the evolving trends and tradecraft with threat/criminal actors and their preference to utilize federated/distributed messaging platforms
- See live demonstration of "TOX" and "Session" for familiarity to software nomenclature and see usage



## CENTRAL GOVERNANCE REQUIRES A CREDENTIALED LOGIN, i.e., USERNAME/PASSWORD



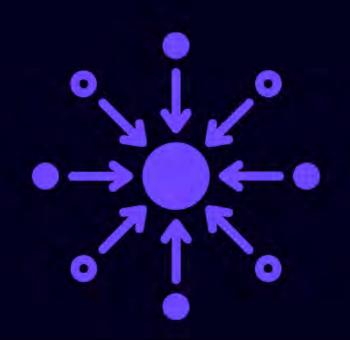
## SUCH THINGS AS PUSH TOKENS, SUPER COOKIES, etc., ARE PART OF THIS CREDENTIAL PROCESSS

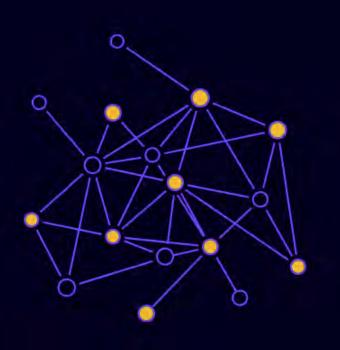


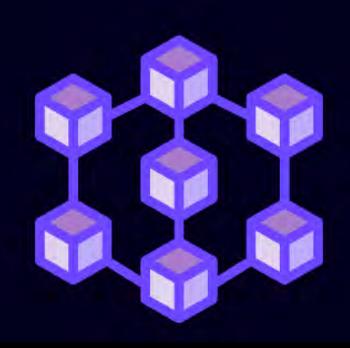
Web 1.0

Web 2.0

Web 3.0







WITH THE ADVENT OF BLOCKCHAIN TECHNOLOGY AND THE CONCEPT OF "WEB3," THE IMPLEMENTATION OF DECENTRALIZED GOVERNANCE IS THE FOUNDATION FOR DATA TRANSFERANCE

UTILIZING BLOCKCHAIN TECHNOLOGY, DARK NETS SUCH AS ZERONET (BITCOIN), LOKINET (OXEN), & IPFS HAVE BEEN SUCCESSFUL IN ACHIEVING ANONYMITY FOR SITE HOSTING AND THE END USER





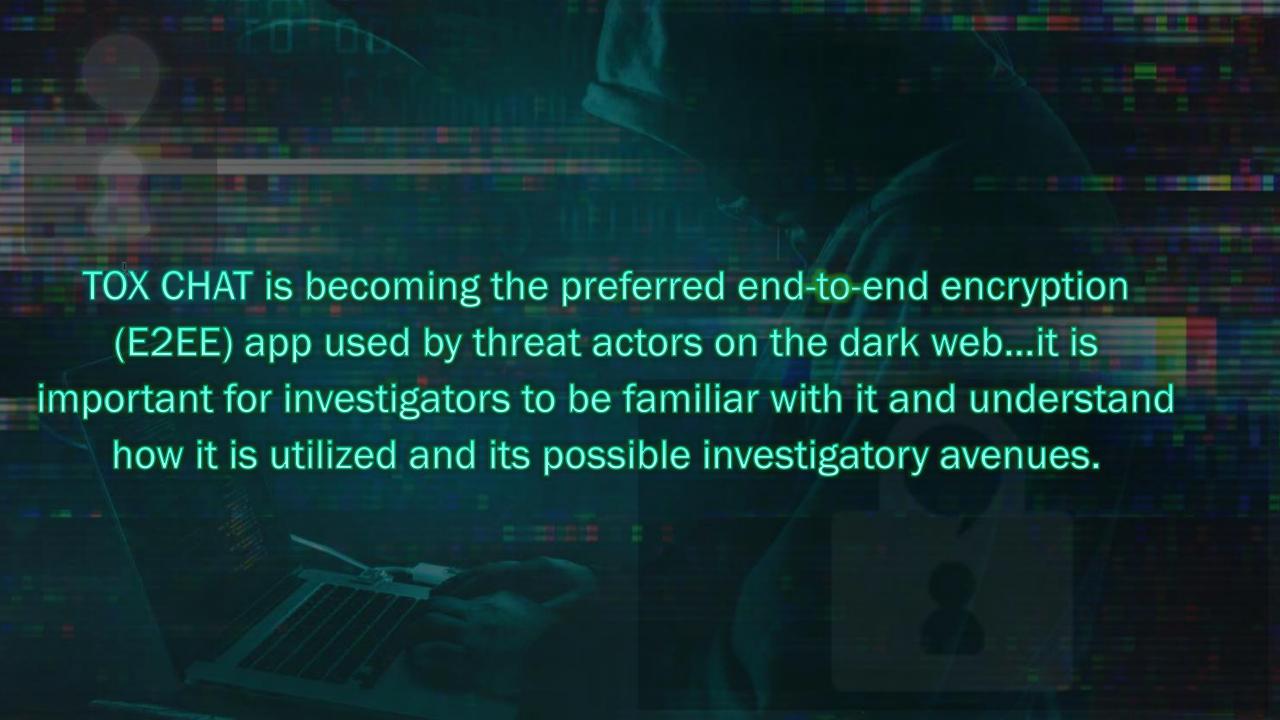


NEW END-TO-END ENCRYPTION & MESSAGING PLATFORMS HAVE BEEN ABLE TO UTILIZE THE DECENTRALIZED/DISTRIBUTED PROTOCOL TO ACHIEVE **ANONYMITY AND PROTECTION FOR THEIR USERS** 



TOX CHAT SESSION MATRIX









## Wickr Me

Wickr Me will be unavailable after December 31, 2023. To learn more, visit our FAQ and read our blog.

## Amazon's Wickr acquisition is a push to win military contracts





## **CIA Funding Arm Gave Encrypted App Wickr** \$1.6 Million

The funding solidifies Wickr's position as an encrypted chat platform for government agencies.



October 12, 2021, 9:51am Share Tweet & Snap













CEE

The Best Home Pizza Ovens for Impressing All Your Guests, Even...









Edward Snowden @Snowden

£ No, I don't use Wickr. The point is that in 2021, you can't credibly purport to provide a secure app when you

- a) take money from the CIA and
- b) literally give the CIA a seat on your board of directors.



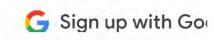
11:52 PM · Oct 12, 2021 · Twitter Web App

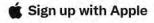
610 Retweets 21 Quote Tweets 4,713 Likes

#### **New to Twitter?**

Search Twitter

Sign up now to get your own personalized timeline!





#### Sign up with phone or email

By signing up, you agree to the Terms of Service and Privacy Policy, including Cookie Use.

#### Relevant people



Edward Snowden @Snowden



I used to work for the government. Now I work for the public President at

Don't miss what's happening

People on Twitter are the first to know.

Log in



# SINCE SUMMER 2021, THERE HAVE BEEN MORE THREAT ACTORS ON THE DARK WEB UTILIZING THE SERVICE TOX CHAT

XMPP AND JABBER REMAIN MORE POPULAR...BUT TOX IS SLOWLY CATCHING UP

#### 1 Chat Messages



1 ARVIN(1210109644) | 3/30/2022, 5:44:55 PM

Send a message to the admin in Tox for advertising

Tox:

D6164C90642CD93D9D3F353511B4BDBD1428309C90CDE13D3D7088AA5BE3010A5 2E485834E84

Telegram: @bayOnet

TOX ID:

D85B413045DD694FCEC7F2FBAA4F8EC8FD4CCB0A0E6765E5DE3AE4C299888B4892404C8C0

#

Inet (2022-03-09 19:42:09)



Image Text: [PARANOID SOFT)

**COΦT** WE ACCEPT ORDERS FOR SPECIALIZED SOFTWARE TEXHOCTÝK :: TECHNOSTEC [ C++ WinAPI, Python, JS, PHP, RunShell, BASH



6 Krypt0n | 3/9/2022, 7:53:20 PM

piv.pivpiv.dk (http://piv.pivpiv.dk)



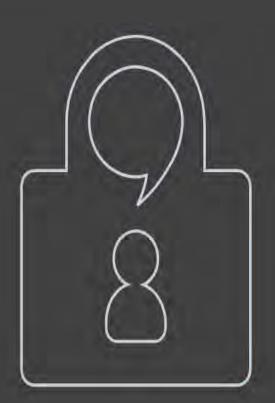
7 yourlitd | 3/10/2022, 7:20:05 AM

TOX id:

7498D838360F29AD3619E685C621A439302BF54B3CC43BA41D8160FE51E02B1C5 AC5B60028C0

GF

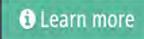
8 gifter1 | 3/21/2022, 10:38:55 AM



## A New Kind of Instant Messaging

Whether it's corporations or governments, digital surveillance today is widespread. Tox is easy-to-use software that connects you with friends and family without anyone else listening in. While other big-name services require you to pay for features, Tox is completely free and comes without advertising — forever.





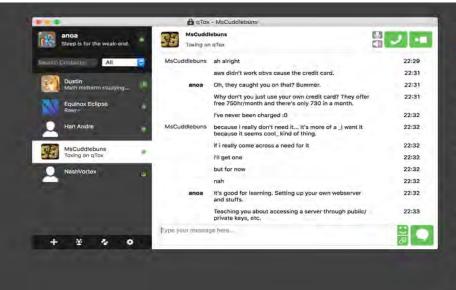
## The Tox Project

Tox began a few years ago, in the wake of Edward Snowden's leaks regarding NSA spying activity. The idea was to create an instant messaging application that ran without requiring the use of central servers. The system would be distributed, peer-to-peer, and end-to-end encrypted, with no way to disable any of the encryption features; at the same time, the application would be easily usable by the layperson with no practical knowledge of cryptography or distributed systems. During the Summer of 2013 a small group of developers from all around the globe formed and began working on a library implementing the Tox protocol. The library provides all of the messaging and encryption facilities, and is completely decoupled from any user-interface; for an end-user to make use of Tox, they need a Tox client. Fast-forward a few years to today, and there exist several independent Tox client projects, and the original Tox core library implementation continues to improve. Tox (both core library and clients) has thousands of users, hundreds of contributors, and the project shows no sign of slowing down.

Tox is a FOSS (Free and Open Source) project. All Tox code is open source and all development occurs in the open. Tox is developed by volunteer developers who spend their free time on it, believing in the idea of the project. Tox is not a company or any other legal organization. Currently we don't accept donations as a project, but you are welcome to reach out to developers individually.

#### OS support:

	Windows	GNU/ Linux	BSD	macOS	Android	ios
qTox	Yes	Yes	Yes	Yes	No	No
иТох	Yes	Yes	Yes	Yes	No	No
Toxygen	Yes	Yes	No	No	No	No
Toxic	No	Yes	Yes	Yes	Minimal (via Termux)	No
аТох	No	No	No	No	Yes	No



uTox (Alpha) (version: 0.4.4)

0.00



qTox is a powerful client based on Qt, with an intuitive and feature rich user interface as well as a fast core written in C++. qTox runs on Windows, Linux, MacOS and FreeBSD and offers text messaging, audio and video calls, screen sharing and file transfers. Additionally it has support for text and audio group chats as well as Identicons as avatars. New features are regularly added by our active and welcoming community.

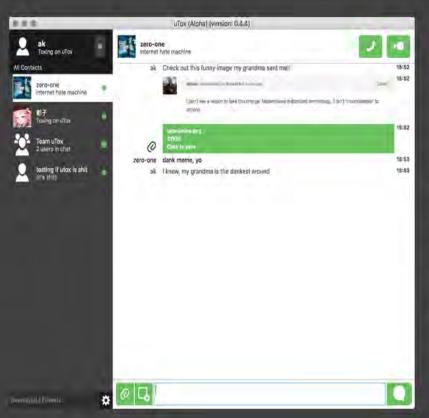


Toolkit:

Operating Linux, Windows,

Systems: macOS, BSD

text and audio group chats as well as Identicons as avatars. New features are regularly added by our active and welcoming community.



#### uTox

Repository:	https://github.com /uTox/uTox		
Maintainers:	Unmaintained		
Language:	C		
Graphical Toolkit:	None (Xlib)		
Operating Systems:	Linux, Windows, macOS, BSD		

μΤοχ is the lightweight client with minimal dependencies; it not only looks pretty, it runs fast! μΤοχ is available for Windows, OS X, and Linux, with full support for chat, file transfers, audio/video calling, and desktop sharing (both as video and inline screenshots). It also supports text group chats with audio groups pending the next Toxcore update.









#### Toxic

Repository: https://github.com//Ifreegman/toxic

Maintainers: Ifreegman, mannol

Language: C

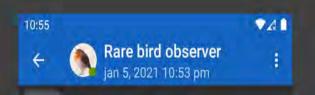
Graphical ncurses
Toolkit:

Operating Linux, macOS, BSD,

Android (via

Termux)

Toxic is a client with an neurses interface, written entirely in C. It has support for all basic features, as well as 1-on-1 audio/video chats, and is capable of working on bare-bones systems that lack graphical interfaces. Development is lead by Jfreegman.





Systems:



Operating Linux, Windows,
Systems: macOS, BSD

chats with audio groups pending the next Toxcore update.



#### Toxygen

Repository: https://github.com/toxygen-project/toxygen

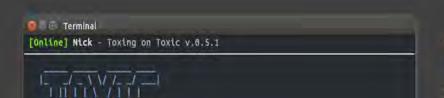
Maintainers: Ingvar

Language: Python3

Graphical PySide
Toolkit:

Operating Linux, Windows

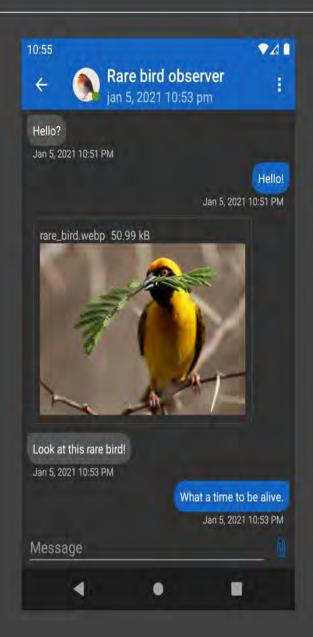
Toxygen is cross-platform Tox client written in pure Python3 with a lot of unique features such as plugins and faux offline file transfers. Development is led by Ingvar.



Toxic

Systems:

https://tox.chat/clients.html



#### aTox

Repository: https://github.com/evilcorpltd/aTox

Maintainers: robinlinden

Language: Kotlin

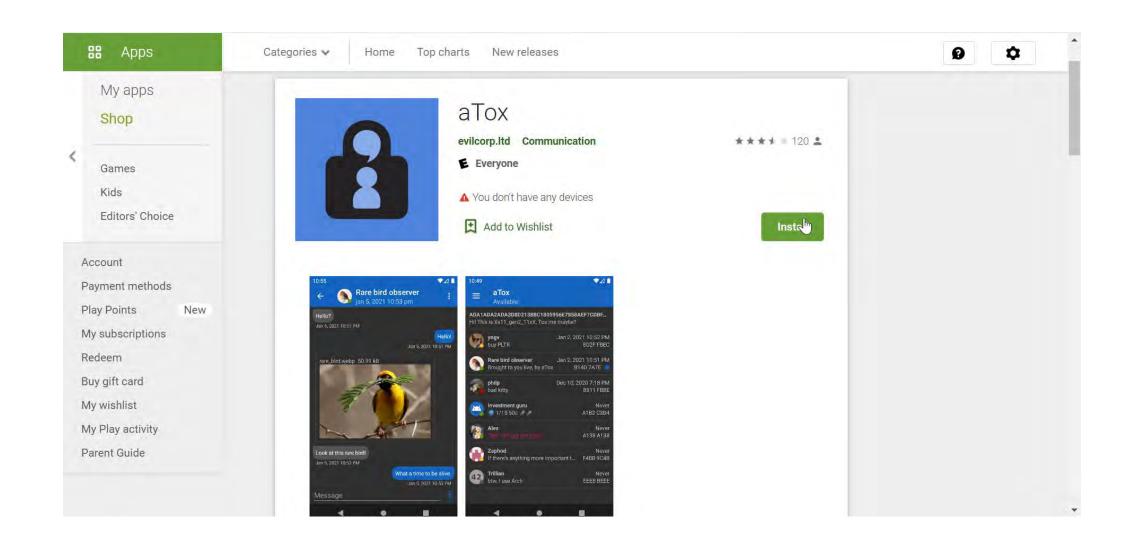
Graphical N/A
Toolkit:

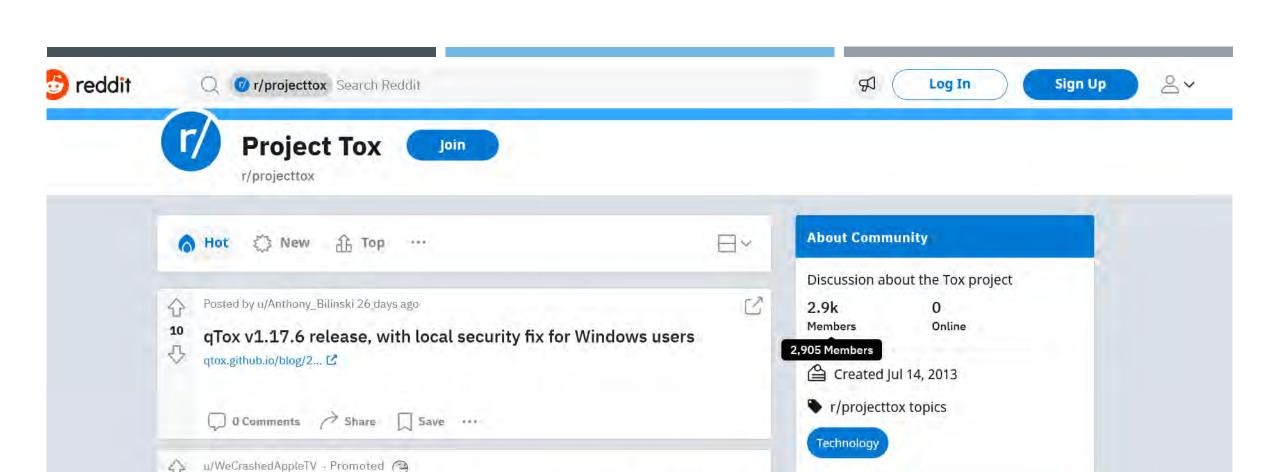
Operating Android
Systems:

The reasonable Tox client for Android.

ATOX IS AVAILABLE FOR DOWNLOAD ON GOOGLEPLAY.

IT IS VERY STABLE, SUPPORTED BY THE PLAY PROJECT.





The love story at the center of one of the world's most valuable startups, WeCrashed explores how a single co-working space grows into a \$47 billion brand, before it plummets. Starring Jared Leto and Anne Hathaway on Apple TV+.

Moderators

Moderator list hidden, Learn More







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yorizuka · 27 days ago

Tox has been the only thing that iv ended up finding actually usable and that meets my ani-cloud stance for IM, im not interested in federation, its p2p or bust for me.

I have tried out matrix and I ended up running my own home server for about a year and it sucked. Anything that requires you to basically host your own publicly accessible website is a non starter. it turns into a small infrastructure project. You have to buy a domain, you need a static IP.

In my case self hosting is a nightmare, I did not want my data on the cloud, but I also am behind a CGNAT and have no real static ip (my ISP sucks), so I basically setup a reverse proxy on a VPS to my home network. The amount of time it took to figure this all out and all the configuration sucks I ended up using a ssh reverse tunnel via boringproxy after failing to figure out wireguard & iptables. Every time a room had a lot of activity the ssh connection would slow down a lot.

I don't mind having a small computer (server) on 24/7 to make things work better, what I do mind is quagmire of flaky annoying and expensive infrastructure.





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Termux

Posts Donate Privacy Policy

Termux is an **Android terminal emulator and Linux environment app** that works directly with no rooting or setup required. A minimal base system is installed automatically - additional packages are available using the APT package manager.





## Running TOXIC on Android via *Termux*

#### Read the wiki to learn more

**Secure.** Access remote servers using the ssh client from OpenSSH. Termux combines standard packages with accurate terminal emulation in a beautiful open source solution.

**Feature packed.** Take your pick between Bash, fish or Zsh and nano, Emacs or Vim. Grep through your SMS inbox. Access API endpoints with curl and use rsync to store backups of your contact list on a remote server.

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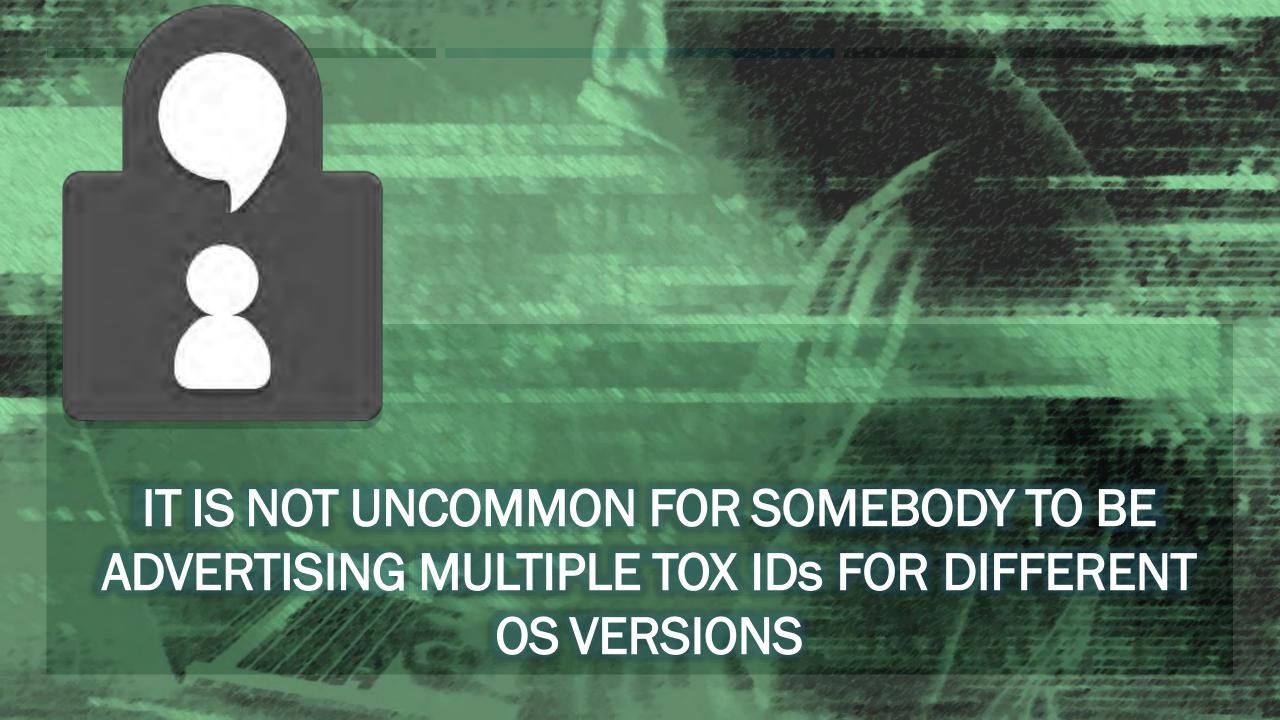
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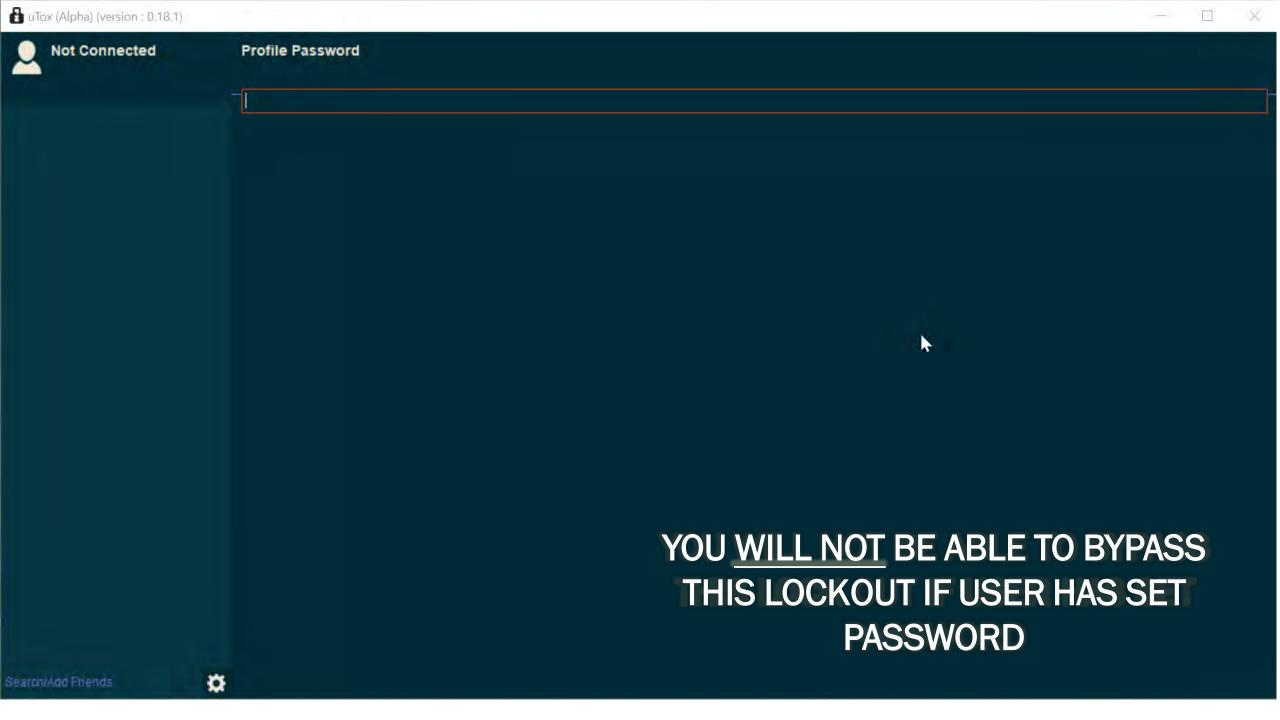
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## How does Tox protect my privacy? Tox protects your privacy by:

## YOU <u>CANNOT</u> SEARCH FOR TOX USERS, ONLY WOULD BE ABLE TO COMMUNICATE KNOWING THEIR **TOX ID**

- Removing the need to rely on central authorities to provide messenger services
- Enforcing end-to-end encryption with perfect forward secrecy as the default and only mode of operation for all messages
- Making your identity impossible to forge without the possesion of your personal private key, which never leaves your computer

How do I add someone to my contacts list?

Look in the profile or settings panel of your client to get your Tox ID which should look something like:

56A1ADE4B65B86BCD51CC73E2CD4E542179F47959FE3E0E21B4B0ACDADE51855D34D34D37CB5

Give yours to your friend and get your friend to add it. That's it.

What happens when I remove someone from my contacts list?

If you remove someone from your contacts list, they will see you go offline, as if you closed your client normally. They can't communicate with you any longer until you add them to your contacts list again.

Does Tox rely on central servers?

No. That said, in some situations a client will choose to use publicly listed bootstrap nodes to find their way into the DHT.

Which encryption algorithms does Toxcore employ?

Tox uses the cryptographic primitives present in the NaCl crypto library, via libsodium. Specifically, Tox employs curve25519 for its key exchanges, xsalsa20 for symmetric encryption, and poly1305 for MACs.

Where can I find a public DHT node to bootstrap with?

Check out our public nodes list for an updated list, including machine-readable JSON output.

What codecs does Toxcore use for audio and video?

Opus for audio, and VP8 for video.

Tox does not make use of SIP.



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#### Tox Bootstrap Nodes Status



**NOTICE**: If you're a node maintainer, please subscribe to the Bootstrap node announcement mailing list to be notified of required updates.

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	IPv4	IPv6	Port	Public Key	Maintainer	Status
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	tox.verdict.gg	9	33445	1C5293AEF2114717547B39DA8EA6F1E331E5E358B35F9B6B5F19317911C5F976	Deliran	ONLINE
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12	160990652	310280022769030	8609990513120104	Sun Mar 27 16:40:00 2022	nxtgenphone.mnc410.mcc310.gprs	googleadservices.com	Web	HTTPS	3
13	160990652	310280022769030	8609990513120104	Sun Mar 27 16:40:00 2022	nxtgenphone.mnc410.mcc310.gprs	google.com	Web	HTTPS	3
14	160990652	310280022769030	8609990513120104	Sun Mar 27 16:40:00 2022	nxtgenphone.mnc410.mcc310.gprs	att.net	Web	HTTPS	3
15	160990652	310280022769030	8609990513120104	Sun Mar 27 16:40:00 2022	nxtgenphone.mnc410.mcc310.gprs	81.169.136.229	Unknown	TCP	6
16	160990652	310280022769030	8609990513120104	Sun Mar 27 16:40:00 2022	nxtgenphone.mnc410.mcc310.gprs	209.59.144.175	Unknown	TCP	6
17	160990652	310280022769030	8609990513120104	Sun Mar 27 16:40:00 2022	nxtgenphone.mnc410.mcc310.gprs	appboy.com	Web	HTTPS	3
18	160990652	310280022769030	8609990513120104	Sun Mar 27 16:40:00 2022	nxtgenphone.mnc410.mcc310.gprs	172.103.164.206	Unknown	TCP	6





**Projects** 

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Research

**About** 

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Server Time: February 19, 2023 at 4:13:44 PM UTC | <u>Transaction Pool</u> | <u>Autorefresh is OFF</u> | <u>Connect via Lokinet</u> | <u>Go to testnet explorer</u> (<u>via Lokinet</u>)

Height: 1260726 | Hard fork: v19.0 | Next Pulse: in 36 seconds | Staking requirement: 15000 OXEN | Base fee: 0.005 OXEN/output + 0.000122 OXEN/kB | Blink fee: 0.015 OXEN/output + 0.000366 OXEN/kB | Block size limit: 300kB/600kB | Blockchain size: 17.1GB

Circulating Supply\*:: 61972674.386241488 OXEN | (Coinbase: 62701584.611618154 OXEN | Fees: 80811.972545764 OXEN | Burned: 728910.225376662 OXEN | Batched: 24768.432376937 OXEN).

\* — The circulating supply may exclude any currently publicised locked OXEN; otherwise it is equal to the coinbase minus the number of burned coins. Fees include paid transaction fees minus any portion that was burned.

TX Type Legend: Service Node Registration | Contribution | Recommission | Decommission | Decommission | IP Change Penalty | Stake Unlock | Some Name System Purchase | ONS Update

#### Transaction Pool

0 transactions, 0B

Age [h:m:s] Type Transaction Hash Fee/Per kB In/Out TX Size

#### Transactions in the Last 20 Blocks Ø

(Min. / Median / Average / Max. size of these blocks: 113B / 113B / 125B / 155B)

Height Age [h:m:s] Size Type Current Page: 0/63036 Next Showing 20 v blocks/page

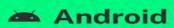
Transaction Hash Fee Rewards In/Out TX Size

# Send Viessages, Not Metadata.

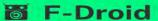
Download

















#### Conversations



Q:

Search conversations and contacts



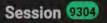




DAY AGO

Or is it the dev-next?





2 DAYS AGO

My idea is just track when sa...



Javelin

4 DAYS AGO

Call with Javelin



**Hackcon Puppy** 

5 DAYS AGO

https://www.youtube.com/@Q...



hd954321

5 DAYS AGO



Pissoff

5 DAYS AGO



MrNobody

5 DAYS AGO

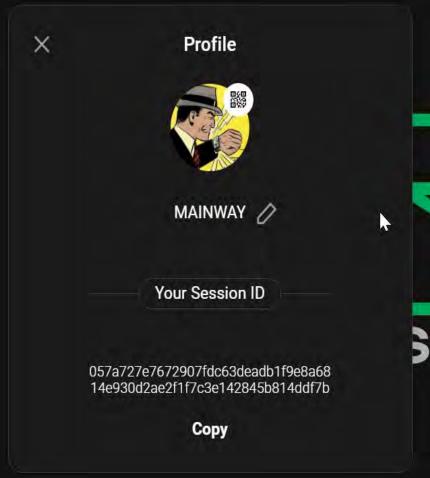


Iskaffe

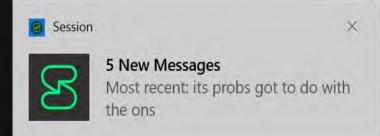
5 DAYS AGO



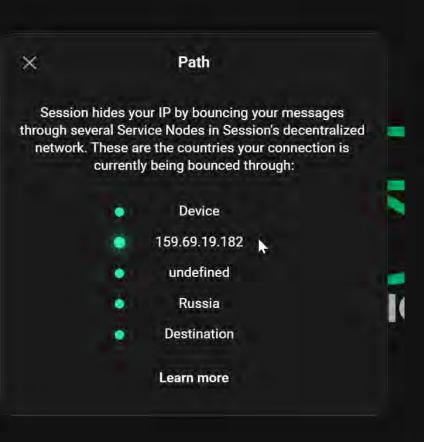
# SESSION IDs are alphanumeric strings that begin with a 0

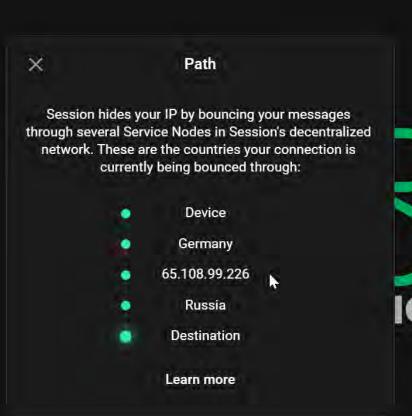


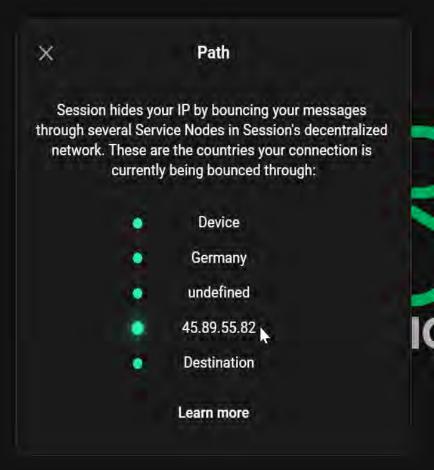




SESSION utilizes a routing pattern similar to the TOR (The Onion Router) circuit to provide anonymity for its users.







				IF Address	40.09.00.02	
Hostname	static.182.19.69.159.clients.your-server.de	Hostname static.226.99.108.65.clients.your-server.de		Hostname	vm720207.stark-industries.solutions	
IP Address Location :		IP Address Location :		IP Address Location :		
Country	Germany (DE)	Country	Finland (FI)	Country	Serbia (RS)	
State/Region	Bavaria	State/Region	Uusimaa	State/Region	Central Serbia	
City	Nuremberg	City	Tuusula	City	Belgrade	
ISP	Hetzner Online GmbH	ISP	Hetzner Online GmbH	ISP	Maxim Azarov trading as Obrada podataka i hosting eServer l	
Organization	Hetzner	Organization	Hetzner Online GmbH	Organization	Stark Industries Solutions LTD	
Network	AS24940 Hetzner Online GmbH	Network	AS24940 Hetzner Online GmbH	Network	AS205007 Maxim Azarov trading as Obrada podataka i hostin	
Connection Type	Corporate	Connection Type	Corporate	Connection Type	Corporate	
Timezone	Central European Time (CET)	Timezone	Eastern European Time (EET)	Timezone	Central European Time (CET)	
Local Time	Sun, 19 Feb 2023 17:25:18 +0100	Local Time	Sun, 19 Feb 2023 18:26:14 +0200	Local Time	Sun, 19 Feb 2023 17:26:46 +0100	
Coordinates	49.4521,11.0767	Coordinates	60.4032,25.0321	Coordinates	44.8125,20.4612	
Tor Relay Details :		Tor Relay Details :		Tor Relay Details :		
Relays	This IP is not identified to be a Tor Relay	Relays	This IP is not identified to be a Tor Relay	Relays	This IP is not identified to be a Tor Relay	
NO	NE OF THE IP AD	DRESSES	ARE INDICITIV	E OF SI	ESSION USAGE.	

65.108.99.226

65.108.99.226

Request

IP Address

IP Address Lookup:

45.89.55.82

45.89.55.82

Request

IP Address

IP Address Lookup:

Request

IP Address

IP Address Lookup:

159.69.19.182

159.69.19.182

# 1. There are nodes in 39 different countries

With servers in 39 different countries and every continent except Antarctica — Session is truly global. This means that Session is not especially vulnerable to changing laws and regulations in any one country — making sure your data is always safe from the prying eyes of surveillance. Session servers are popping up in new countries all the time, who knows, maybe you could be the first person to set up a node in Antarctica







- Downloads
- Support

#### ABOUT THE OXEN BLOCKCHAIN

- Overview
- Token economics
- Oxen Service Nodes
- Pulse: PoS on Oxen
- Blink: Instant transactions

#### USING THE OXEN BLOCKCHAIN



# Service Node guides

A directory of guides for setting up and maintaining your Oxen Service Node.

Guide	Outline				
Setting up an Oxen Service Node	How to configure a server as an Oxen Service Node.				
GUI Wallet Staking Guide	How to stake to an Oxen Service Node using the Oxen GUI Wallet.				
Mobile Wallet Staking Guide	How to stake to an Oxen Service Node using the Oxen Mobile Wallet				
Service node deregistration	Explanation of the conditions under which a service node may be deregistered (removed from the network), and some tips on how to				

Server Time: February 19, 2023 at 4:36:55 PM UTC | <u>Transaction Pool</u> | <u>Autorefresh is OFF</u> | <u>Go to testnet explorer</u>

Height: 1260738 | Hard fork: v19.0 | Next Pulse: in 85 seconds | Staking requirement: 15000 OXEN | Base fee: 0.005 OXEN/output + 0.000122 OXEN/kB | Blink fee: 0.015 OXEN/output + 0.000366 OXEN/kB | Block size limit: 300kB/600kB | Blockchain size: 17.2GB

Circulating Supply\*:: 61972680.972189523 OXEN | (Coinbase: 62701591.197566189 OXEN | Fees: 80811.972545764 OXEN | Burned: 728910.225376662 OXEN | Batched: 24981.846428907 OXEN).

\*— The circulating supply may exclude any currently publicised locked OXEN; otherwise it is equal to the coinbase minus the number of burned coins. Fees include paid transaction fees minus any portion that was burned.

TX Type Legend: F Service Node Registration | Contribution | Recommission | Decommission | Decommission | IP Change Penalty | Stake Unlock | Contribution |

#### Transaction Pool

0 transactions, 0B

Age [h:m:s] Type Transaction Hash Fee/Per kB In/Out TX Size

#### Transactions in the Last 20 Blocks Ø

(Min. / Median / Average / Max. size of these blocks: 113B / 113B / 123B / 155B)

Height Age [h:m:s] Size Type Current Page: 0/63036 Next Showing 20 V blocks/page

1260737 0:00:32 113 Showing 20 V blocks/page

#### Are calls private?

Calls in Session are end-to-end encrypted and offer a good level of privacy. Unlike messages (which use onion-routed networking), the current implementation of calls uses peer-to-peer networking. This means your IP will be shared with your call partner as well as an OPTF operated STUN/TURN server. Although this is acceptable for most people, you should always make sure to assess your own personal situation to determine whether the risk of exposing your IP is worth it. If you're in an extremely high-risk situation, we **do not** recommend enabling peer-to-peer calls — onion-routed calls are on the way.

In order to prevent spam and protect privacy, you can only send and receive calls with people in your contacts list — not unknown Session IDs or people in your message requests.

# TRUE IP ADDRESSES CAN BE REVEALED IN THE CURRENT CALL FEATURE...

...CURRENTLY, THIS WOULD BE THE ONLY INVESTIGATORY
TECHNIQUE !!!



# Session Messenger Open Groups:

#### Unofficial Open Groups run by the community:

#### **Session & Oxen**

- Oxen Service Node Operators → http://sog.caliban.org/snops?public\_key=118df8c6c471ac0468c7c77e1cdc12f24a139ee8a07c6e3bf4e7855640dad821
- Session Open Group Server Operators → http://sog.caliban.org/sogops?public\_key=118df8c6c471ac0468c7c77e1cdc12f24a139ee8a07c6e3bf4e7855640dad821
- Session Hacking & Development → https://sog.zcyph.cc/sessiondev?public\_key=e56fa54f9da6df91928f97023e8651e2df10fb6cf743a1ec96d0543acb8f2e7a

#### Countries & Countries

- Bangladesh → https://3399981.xyz/bangladesh?public\_key=13f6560efbeee1d0046f8883c60b4c165103c114adbc02d4b5ba68816e8a6731
- Brazil (see also Portuguese) → http://sog.caliban.org/brasil?public\_key=118df8c6c471ac0468c7c77e1cdc12f24a139ee8a07c6e3bf4e7855640dad821
- Chinese → Just another Chinese group → http://45.77.102.159/origin?public\_key=132d7cf93a6a72eabbf9357a3a29d0644b27b1166e12d36704a0785f7ccb0f74
- Czech, Slovak ► USB → https://3399981.xyz/czsk?public\_key=13f6560efbeee1d0046f8883c60b4c165103c114adbc02d4b5ba68816e8a6731
- Dutch/Netherlands = → http://sog.caliban.org/nl?public\_key=118df8c6c471ac0468c7c77e1cdc12f24a139ee8a07c6e3bf4e7855640dad821
- Finnish → http://173.249.51.184/fi?public\_key=2812244a5577d56a5b1220706e25cdc230363ce33d770a7cab39656baf79145f

#### **Operators:**

- $116.203.217.101 \rightarrow BPerson$  (05f7c71c89e0t0453466b12bc1e2bd7412e49133b9c099ac5b7a94dfd0be913f52)
- sog.caliban.org  $\rightarrow$  Ian Macdonald (05cef6ca 45f42b94cf41f56789c396c23158a6b566df755674df46757f5e569213) (ONS: ianmacd)
- 2hu-ch.org  $\rightarrow$  nanachi a.k.a. workaholic  $\bigcirc$  (05 5f3363fb2a5548765e1e0a4a2e32a2a54dadad6fc5acd3cbbcf35baa06cb633)
- 173.249.51.184  $\rightarrow$  Marky (05bb29ca4e83a8 7028f64b65e81e6a096ba4e7e12f614daa28bcf0fce8875b26a)
- 23.88.56.89  $\rightarrow$  Drake (0.56a5df840beaeb87753e8a06397051664b6222e1a1da65924eafca3eb3106ca18)
- opensessionitalia.eu.org → MassiveBox (05 b9a9be3b156d7e2598806c4de970187b15e216d36610300693874ce16a6020f) (ONS: massivebox)
- 73.55.197.99  $\rightarrow$  ThatCatholicGuy (05e14781801fb420a2b3ac573f48b68bc719330832eeb3111141d27e54fa9c371d)
- remote.noff.co → Warlock (05a357eb98e45e07322472a2decc3cfd221953f75480e90e6996322a5fee2cf81a)
- sogs.horse.xx  $\rightarrow$  Acbn (05f48c77100c7379bca13139b85792bea6e4edc2550da3abf7348b9e715f52fd24)

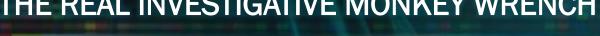
# What are Session Open Groups?

Open groups are Session Group chat servers that can host many thousands of chat participants.



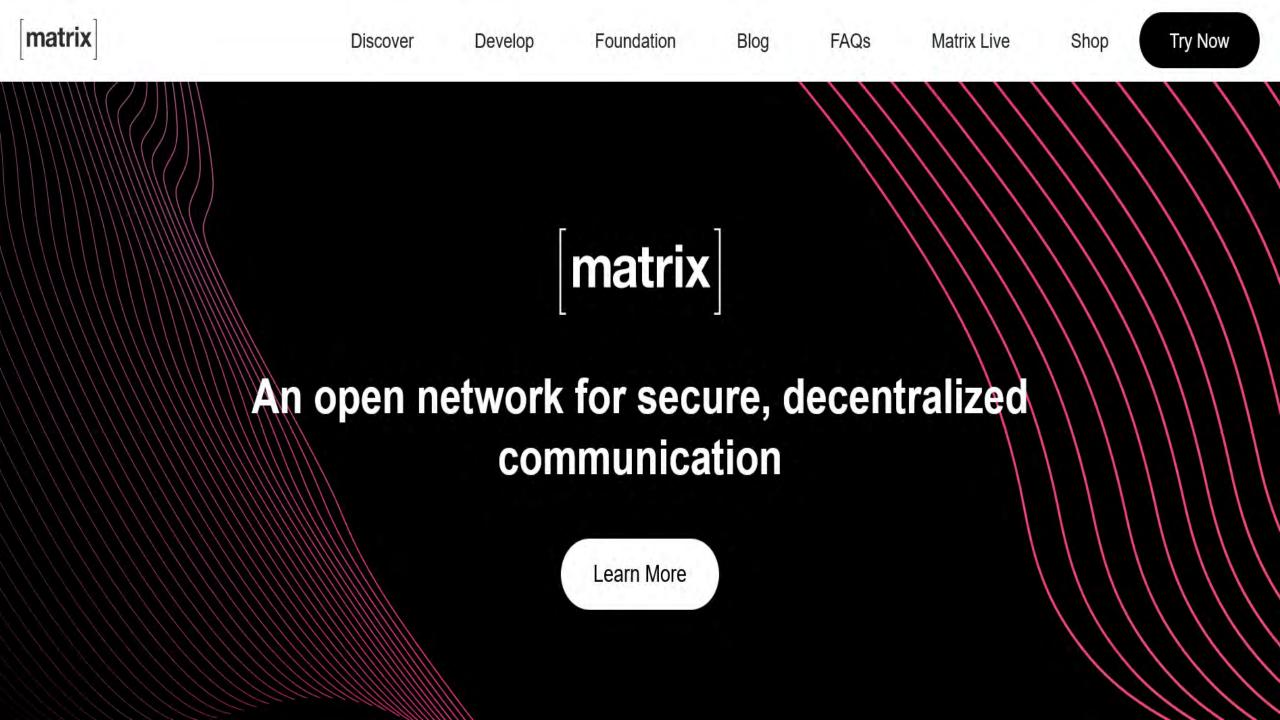
How to join an existing Session Open Group?

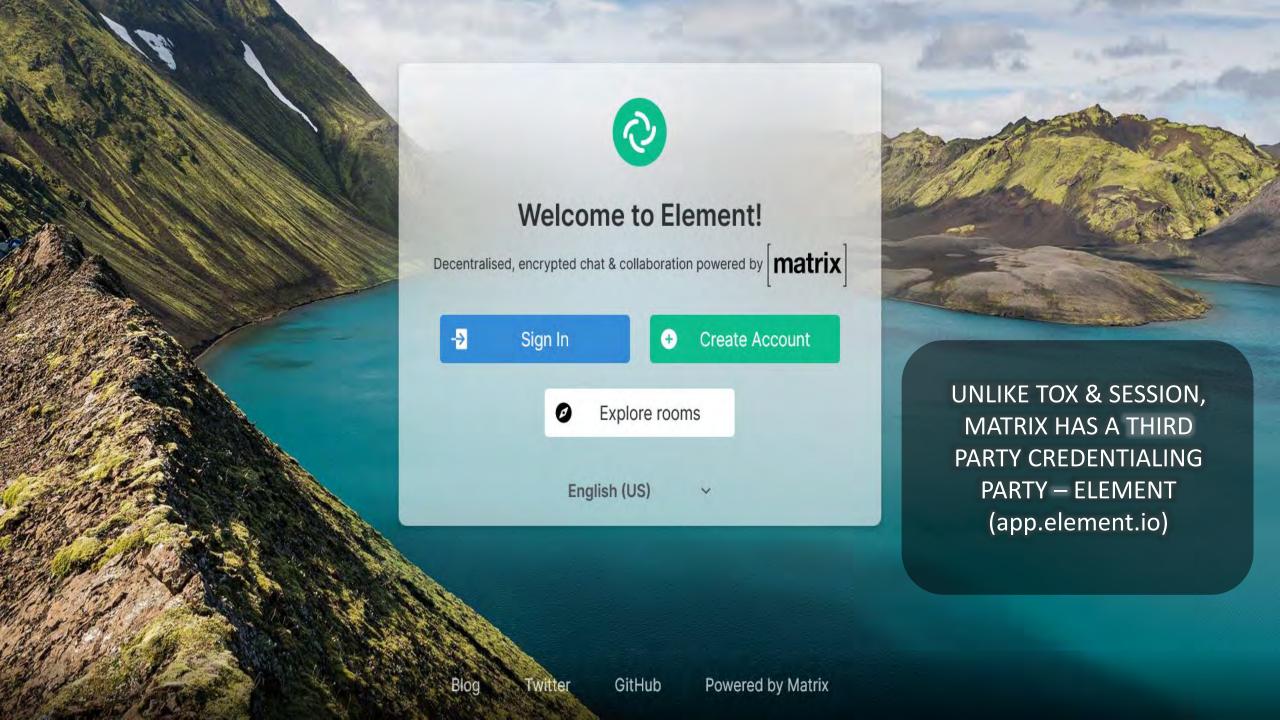


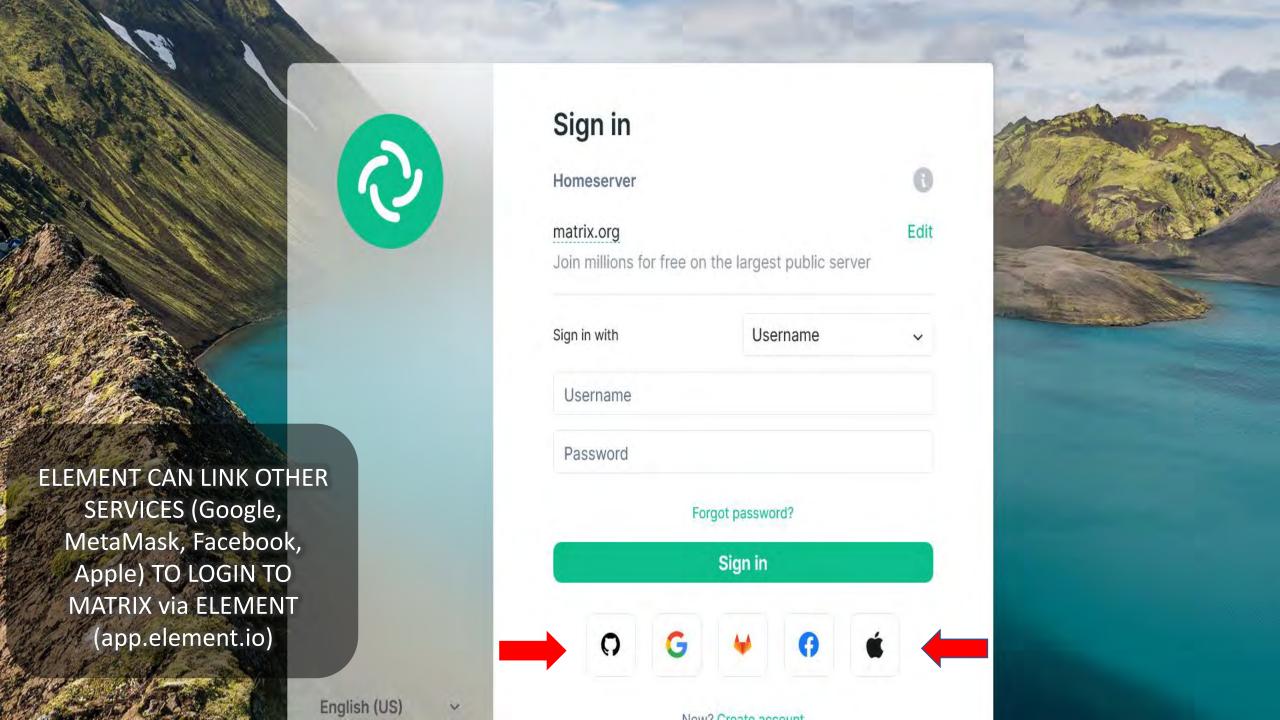


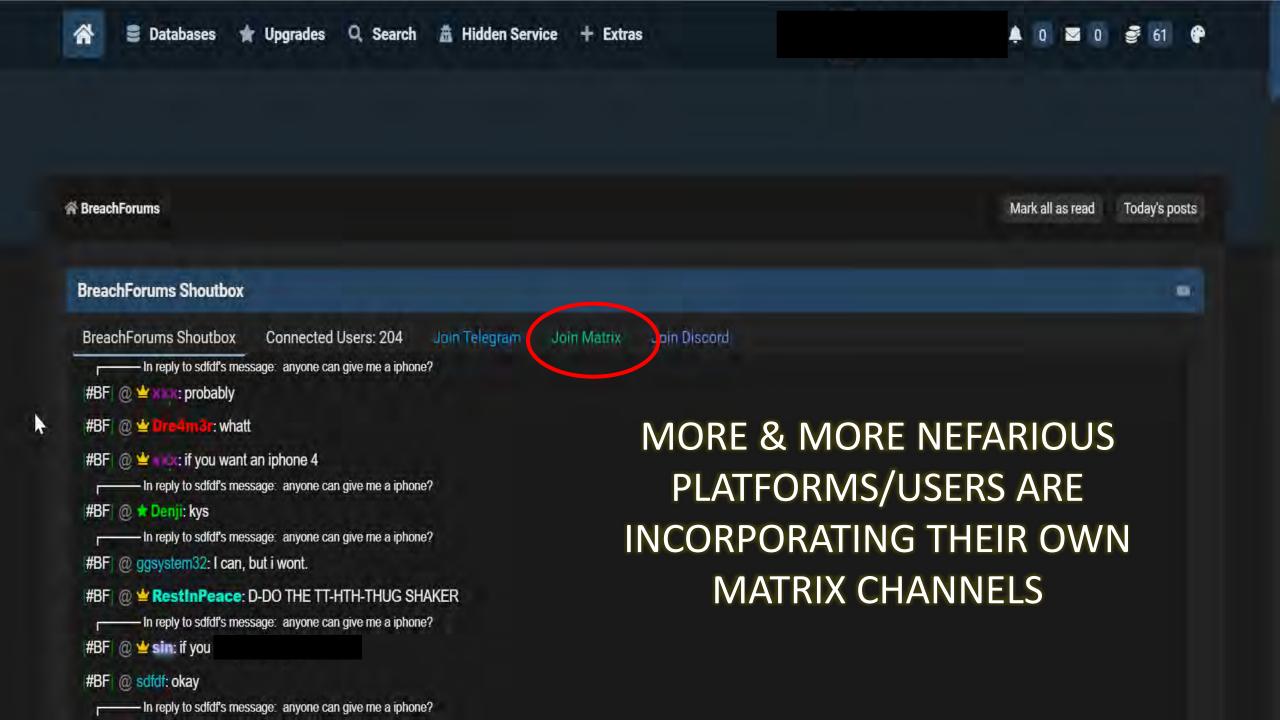


- the decentralized mastodon and discord -

















https://forum.exploit.in/topic/210437/?tab=comments#comment-1317672



Report post &

#### adrastea

byte





Paid registration 0 0

16 posts Joined

07/30/22 (ID: 134118)

Activity

безопасность / security

Posted August 5, 2022

MBDA claims that we do not have confidential data.....ok, so....

Currently, the volume of downloaded data is approximately over 84 GB. The downloaded data contains a confidentional information about the employees of companies, which took part in the development of closed military projects of MBDA (PLANCTON, CRONOS, CA SIRIUS, EMADS, MCDS, B1NT etc.) and about the commercial activities in the interests of the Ministry of Defense of the European Union (design documentation of the air defense, missile systems and systems of coastal protection, drawings, presentation, video and photo (3D) materials, contract agreements and correspondence with other companies Rampini Carlo, Netcomgroup, Rafael, Thales, ST Electronics etc.).

P.S. ... discussion of the price in private messages...

XMPP: adrastea@thesecure biz

MATRIX: @adrastea:matrix.org





# Settings



- Appearance
  - Notifications
- Preferences
- Keyboard
- Sidebar
  - Voice & Video
  - Security & Privacy
- Labs
- Help & About

### General

#### Profile

Display Name thinned\_thread

@thinned\_thread:matrix.org

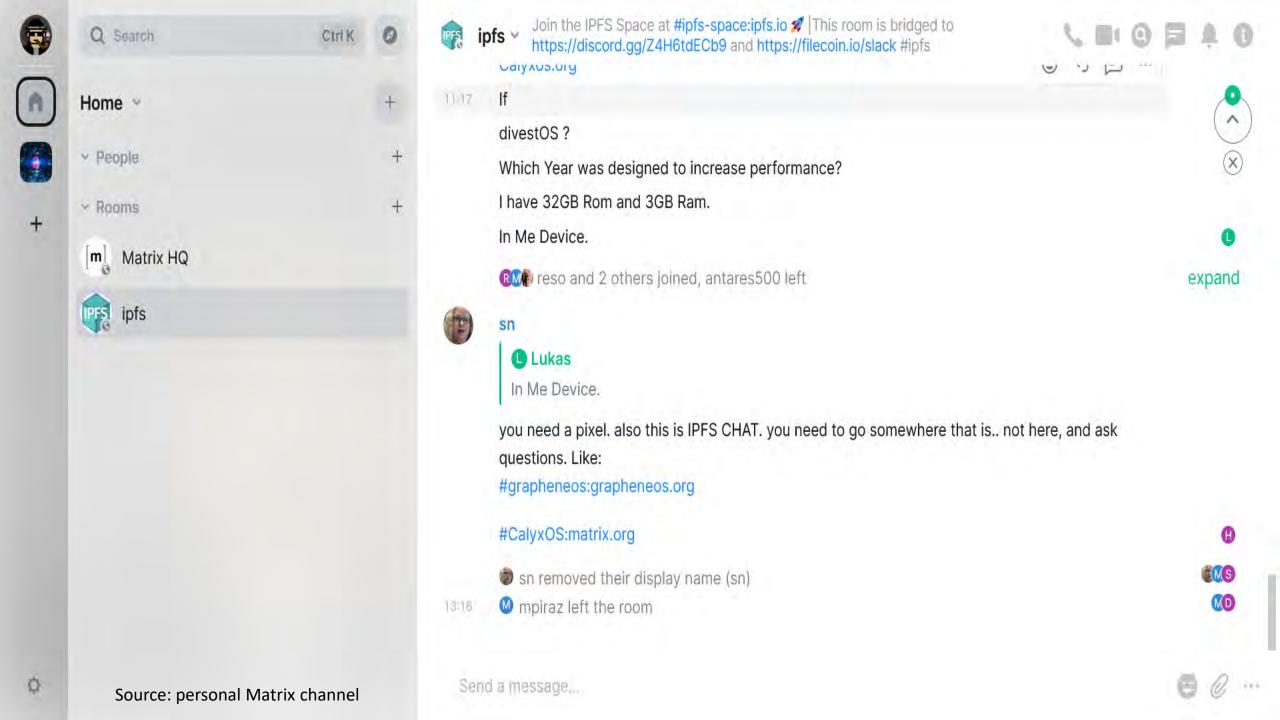


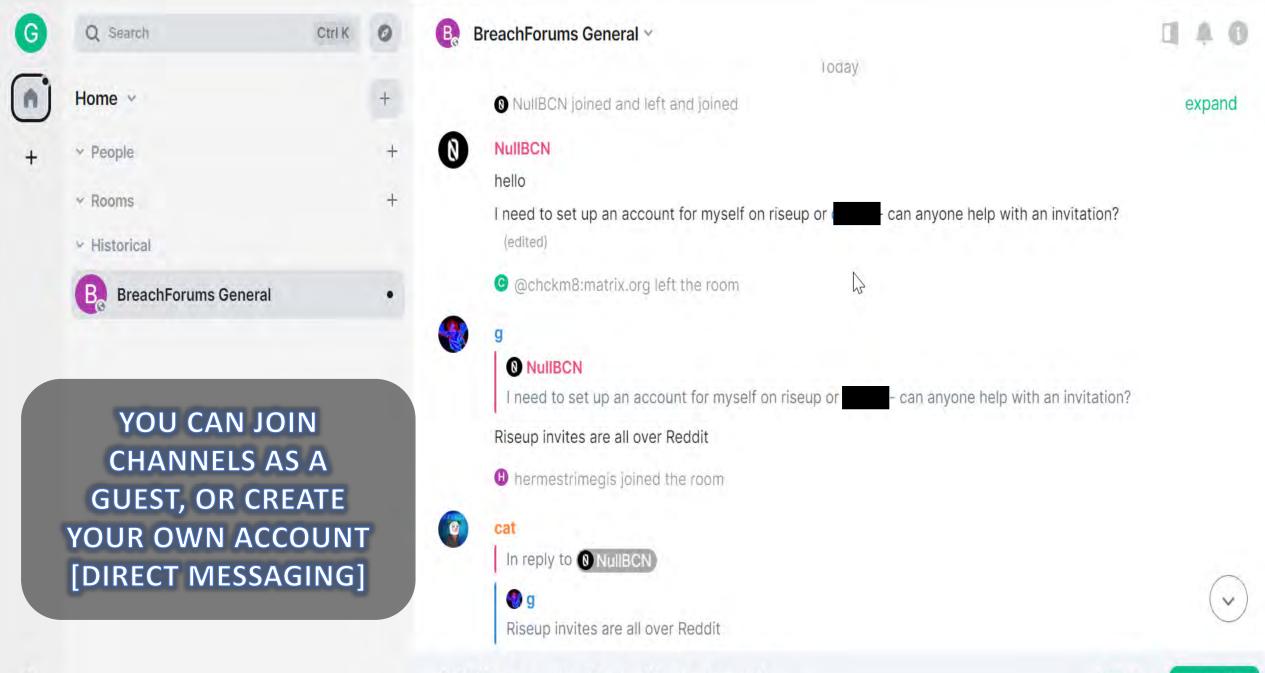


#### Account

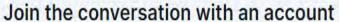
Set a new account password...

Current password









outin at motarit moodaging

#### Introduction

Introduction

How can I get involved?

Moderation in Matrix

**Application Services** 

Made for Matrix Badge Guidelines

The Matrix Jobs Room

Running online events with Open Source communication tools

#### **Server Setup**

Installing Synapse

Self-hosting a map tile server for location sharing

Eroo Matrix Conver using

# ∾ How does it work?

Each user connects to a single server, this is their *homeserver*. Users are able to participate in *rooms* that were created on any Matrix server since each server *federates* with other Matrix servers. This means you can talk to anyone on any server. It also means you can host your own server, giving you control over all of your data. Self hosting also gives you the ability to customize your server to fit your needs including giving you the ability to bridge to other chat networks (such as IRC, XMPP, Discord, Telegram, etc) or to host bots.

Each message that is sent in a room is synchronized to all of the other servers that participate in that room. If one server goes offline, everyone else in the room can continue talking. Once that server comes back online it will be sent all of the messages that it missed while it was down.

Did we mention it is secure? Your private conversations can be secured by end to end encryption so the server has no idea what you are talking about.

For a more detailed introduction to this topic see https://hacks.mozilla.org/2018/10/dweb-decentralised-real-time-interoperable-communication-with-matrix/

# ₀ How can I try it out?

To start chatting on Matrix you'll pood to sign up for a user account

# THESE TYPES OF PLATFORMS ARE THE FUTURE...



**FEDERATED AND AUTONOMOUS** 





keven.hendricks@leo.gov

keven@ubivisproject.org



# https://ipfs.tech/