

Belfast CryptoParty

Welcome

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What is a CryptoParty?

A CryptoParty is free, public and fun. It's a decentralized, global initiative to introduce the most basic cryptography software and the fundamental concepts of their operation to the general public.

`https://cryptoparty.in`

Future Topics

- PGP (Data encryption and authentication)
- Tor (Anonymity Online)
- Disk Encryption
- Securely Downloading applications
- Whatever you want :)

Disclaimer

"The only secure computer is one that's unplugged, locked in a safe, and buried 20 feet under the ground in a secret location. . . and I'm not even too sure about that one" – Dennis Huges, FBI.

What is OTR?

Encrypted Instant Messaging

- **Encryption** - No one else can read your instant messages.
- **Authentication** - You are assured the correspondent is who you think it is.
- **Deniability** - The messages you send do not have digital signatures that are checkable by a third party. Anyone can forge messages after a conversation to make them look like they came from you. However, during a conversation, your correspondent is assured the messages he sees are authentic and unmodified.
- **Perfect forward secrecy** - If you lose control of your private keys, no previous conversation is compromised.

What OTR is not

- Some applications will allow "Off the record"
Normally disables logging - **Does not mean it's encrypted!**
- SSL, the padlock on websites (HTTPS), is not the same
- OTR is not secure if you log the conversation
- OTR does not allow more than two people in a conversation

What you will need

- **Windows/Linux** - Pidgin with the OTR plug-in
 - <https://pidgin.im>
 - <https://otr.cypherpunks.ca>
- **Mac OS** - Adium (built in support for OTR)
 - <https://adium.im>
- **Android/iOS** - Chat Secure
 - <https://chatsecure.org>

Connect and Go

- 1 Download your client
 - 2 Setup account
 - 3 Accounts, Manage Account, Add
 - 4 Enter connection details (right)
 - 5 Enable OTR
- **Protocol:** Facebook (XMPP)
 - **Username:** [think]
 - **Domain :**
chat.facebook.com
 - **Resource:** none
 - **Password:** [think]
 - **Proxy :** Port 443