

# Metadata

Theo Baschak

CryptoParty

# Online HTML5 Slides

Presentation source/download available at  
[github.com/tbaschak/cryptoparty-metadata](https://github.com/tbaschak/cryptoparty-metadata)

# Who I Am

- ▶ Primary Network Administrator of VOI Network Solutions – Winnipeg-based commercial Internet Service Provider and carrier.
- ▶ Involved with both Internet Exchanges in Winnipeg.
  - ▶ Elected member on the Board of Directors for MBIX.
  - ▶ Also involved with the creation and technical operations of WpgIX.
- ▶ Avid opensource software user/fanatic, and recently, contributor.

- ▶ “Due to recent revelations. . .” / NSA / Global Surveillance / etc
- ▶ Will be talking tonight about:
  - ▶ Metadata
  - ▶ Your traffic, on the wire
  - ▶ Authentication AND Encryption

- ▶ Expectations of privacy are no longer reasonable in 2014
- ▶ Many previously “only theoretical” privileged access attacks now widespread
  - ▶ MITM attacks very real
  - ▶ And profitable too

- ▶ Metadata

- ▶ More sources closer to users gives better information
- ▶ Traditionally 5-tuple
  - ▶ ip\_proto, src\_ip, src\_port, dst\_ip, dst\_port
  - ▶ along with timestamp
  - ▶ can be combined with DNS/Geo/BGP information
  - ▶ Provides information for troubleshooting and network planning
- ▶ Detail Time Limited
- ▶ Usage Graphs

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- ▶ So What Can Your ISP See?
- ▶ Last CryptoParty Traffic - All SSL Ports, that was all
- ▶ Is this a concern?

- ▶ Routing Attacks
  - ▶ Accidental
  - ▶ On Purpose
- ▶ Implications of routing diversions
  - ▶ Plaintext can be considered compromised
- ▶ LinkedIn 'Intro' Email Proxying (2013-10-23 - 2014-03-07)



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# Questions / End

- ▶ Question & Answer period as time permits.

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