

Thout

Yet Another WebSocket P2P Project

DrDub

OHM2013

<https://github.com/DrDub/Thout>



Everybody is doing it so why can't we

- Hackons la Corruption
- WebSockets
- "Peer-to-peer" through centralized proxy
- All in one language (JS)
- Stores documents in the readers' Web browser
- Unpopular documents are 'forgotten'

Simple, yet problematic

Simple

- no DHT!
- probabilistic flooding

Problems

- no DHT!
- trivial to attack
- WebSocket binary encoding
- node.js hashing used to be not async



Fully defined protocol

From Client: JSON { 'command' : 'FETCH' , 'hash' : hash }

From Client: JSON { 'command' : 'REGISTER', 'hash' : hash }

From Client: JSON { 'command' : 'AVAILABLE', 'number_of_slots' :
number }

From Client: JSON { 'command' : 'LIST', 'number_of_hashes' :
number }

From Client: JSON { 'response' : 'UNAVAILABLE', 'hash' : hash }

From Client: binary data (document)

From Node: JSON { 'command' : 'FETCH', 'hash' : hash }

From Node: JSON { 'response' : 'UNAVAILABLE', 'hash' : hash }

From Node: JSON { 'response' : 'LIST', 'hash' : [hash] }

From Node: binary data (document)

Love us for

...trying :-)

- TorChecker NPM package

<https://npmjs.org/package/torchecker>

- Spanning tree goodness by jergas and 5nister
- Buddying community in Montreal (pholden, jergas, 5nister)
- Low barrier of entry, documented protocol
- Love? Flames? Ping me: DrDub@Freenode (##foulab)