

Tor & Hidden Services

93 till ∞

Section 1

Introduction

Anonymity

- ▶ What is it?
 - ▶ Anonymity is not cryptography: Cryptography protects contents. Anonymity protects identities.
- ▶ Who needs it?
 - ▶ Citizens
 - ▶ Journalists
 - ▶ Activists
 - ▶ Companies
 - ▶ Governments
- ▶ Mixnets
- ▶ Onion Routing

Section 2

Tor

Tor

- ▶ Provides Online anonymity using onion routing
- ▶ It's a network of 6000 nodes/relays
- ▶ Open Source & Open Design
- ▶ Maintained by The Tor Project
- ▶ Active community of users/developers/researchers
- ▶ Various threat models / various use cases
 - ▶ Privacy
 - ▶ Censorship circumvention
 - ▶ Anonymous publishing

Section 3

Hidden Services

Hidden Services

- ▶ Subsystem of Tor
- ▶ Why is it useful?
- ▶ Hidden service addresses look like this:
`http://kaznvigiefkaoszczf.onion`
- ▶ How does it work?
- ▶ Hard problem: Improvements coming soon.
- ▶ Various applications: securedrop, ricochet, pond, bitcoin nodes

The End

Thank you and please setup your own Tor relays!
Questions?