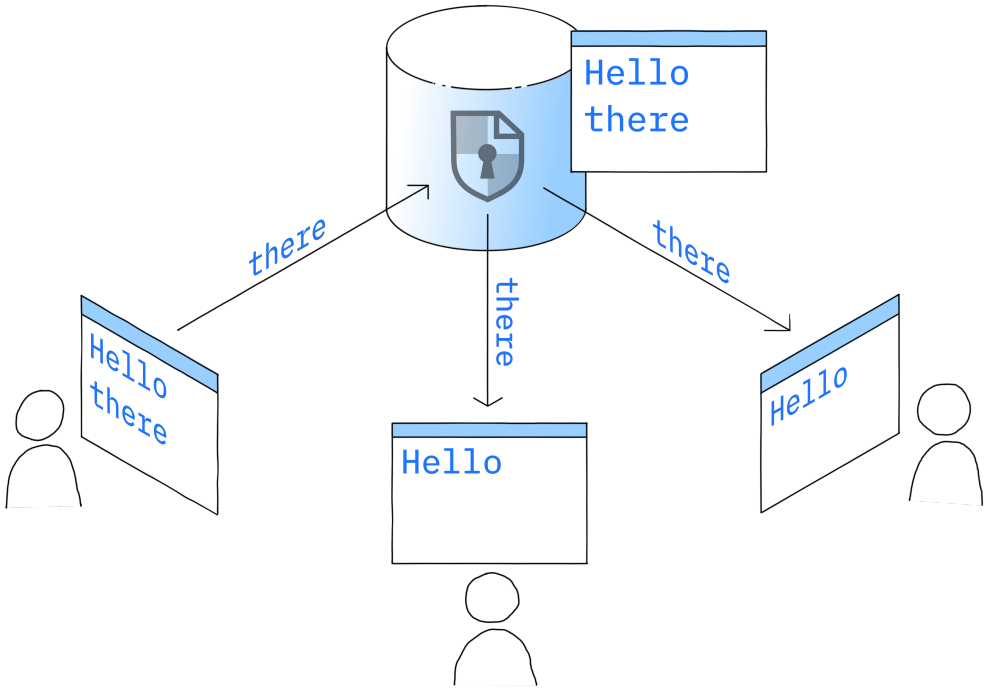
Whom Do You Trust?

Privacy and Collaboration in CryptPad

Collaborative Editing



The Privacy We Want

No *untrusted entity* can infer personal information, document content, or collaborators

Image: Sigmund (Unsplash)

Why not Google + co?

The Intercept_

NAOMI _KLEIN

India Targets Climate Activists With the Help of Big Tech

Tech giants like Google and Facebook appear to be aiding and abetting a vicious government campaign against Indian climate activists.

Naomi Klein

February 27 2021, 9:00 a.m.

We Need to Control the Software!

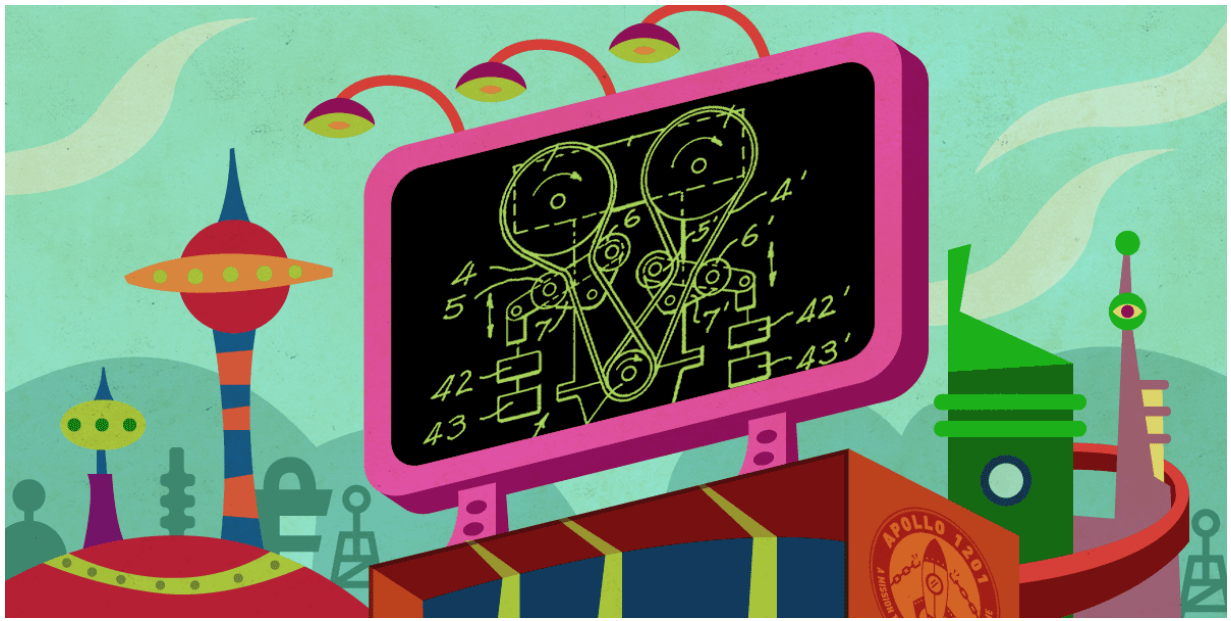


Image: eff.org

It's FOSS, we are safe 😎

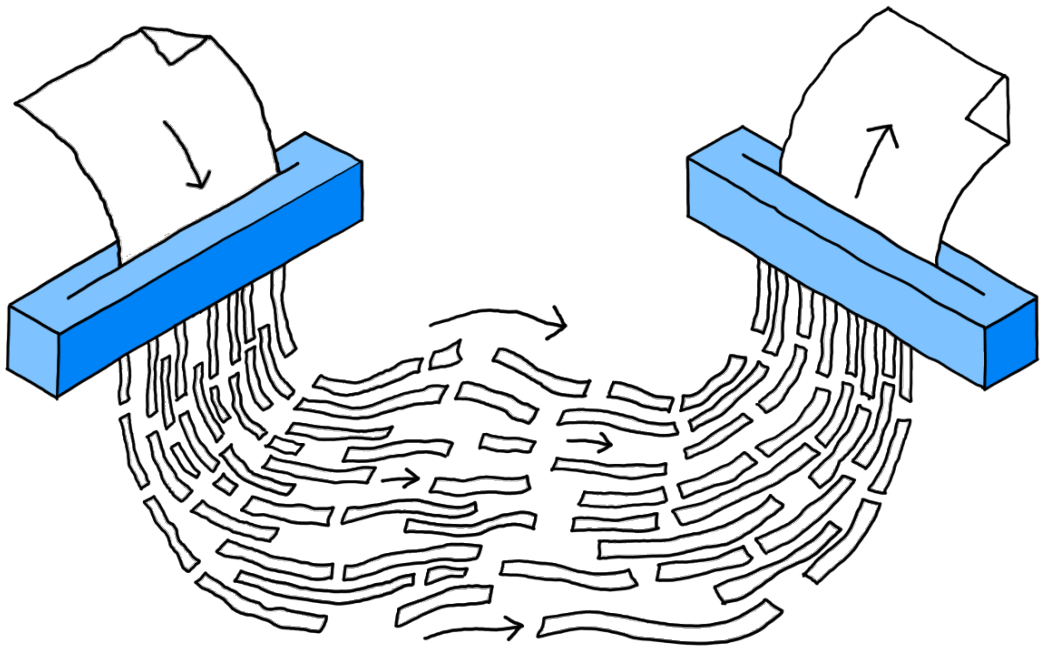
> The possibility to [...] run your own instance [...] completely removes the need [...] to trust a third party provider and **therefore eliminates the need for e2ee**.

Jitsi Meet, December 2022

… well, really?

- Can *everybody* run their own instance?
- Really trust system administrator to see *all* your documents?
- Documents are *not* ephemeral!

End-to-End-Encryption (E2EE)



It's E2EE, we are safe 😎

> With Google Workspace Client-side encryption (CSE), content encryption is handled in the client's browser before any data is transmitted.

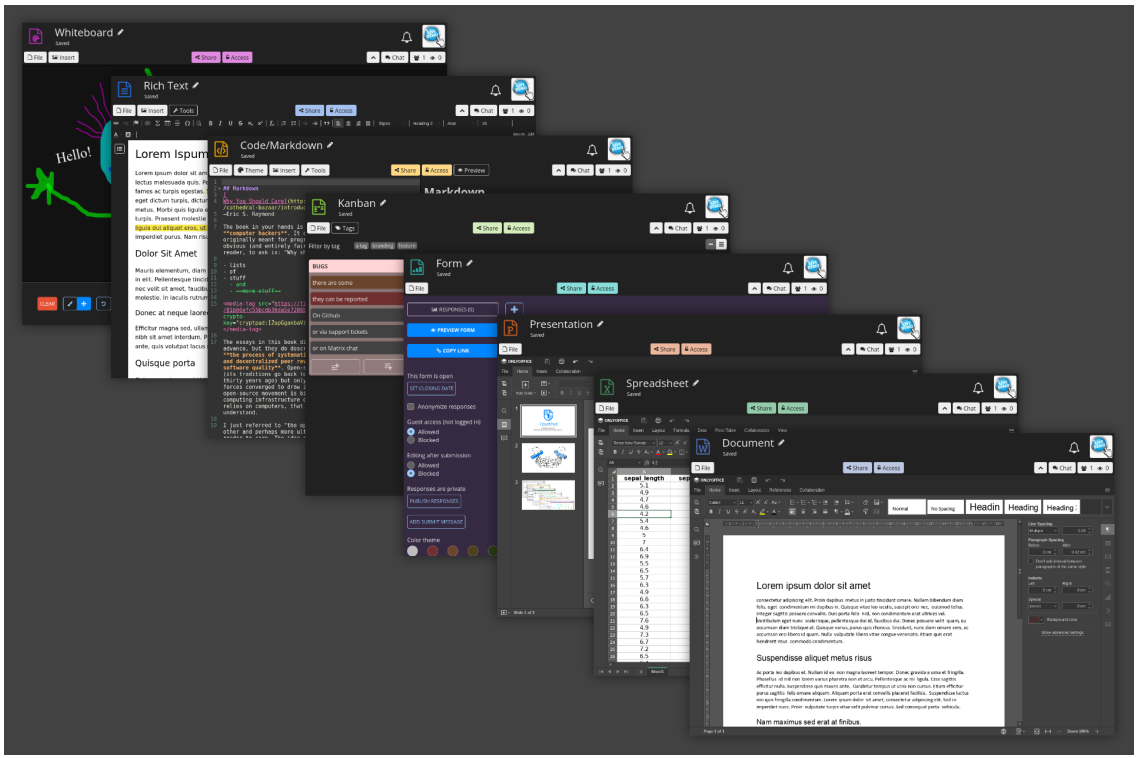
Google

… well, really?

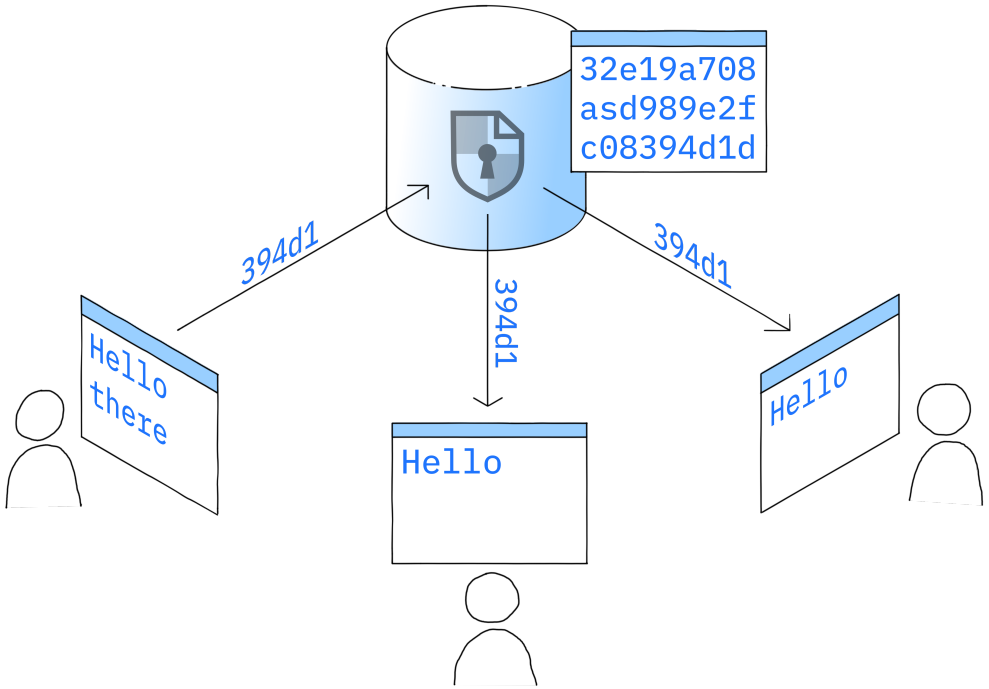
- Metadata
- A cryptosystem should be secure, even if everything about the system, except the key, is public knowledge.

Kirchoffs Principle

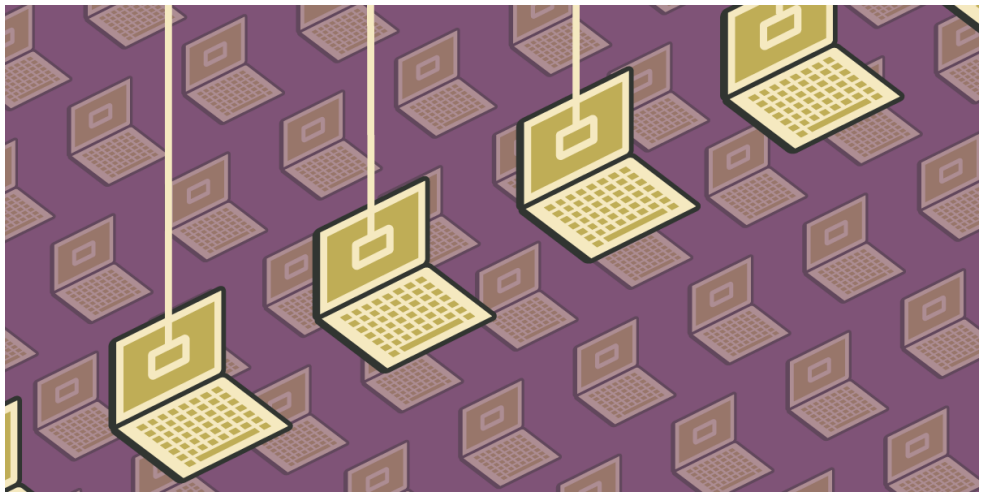
What is CryptPad?



How Does CryptPad Encrypt?



Trust: Server ≠ Active Attacker



- Practical: Distribute the client code
- Theoretical: Server can always delete files

Image: eff.org

Honest-but-curious Attacker

Server doesn't act maliciously, but watches you

Image: eff.org

Server May Become Corrupt

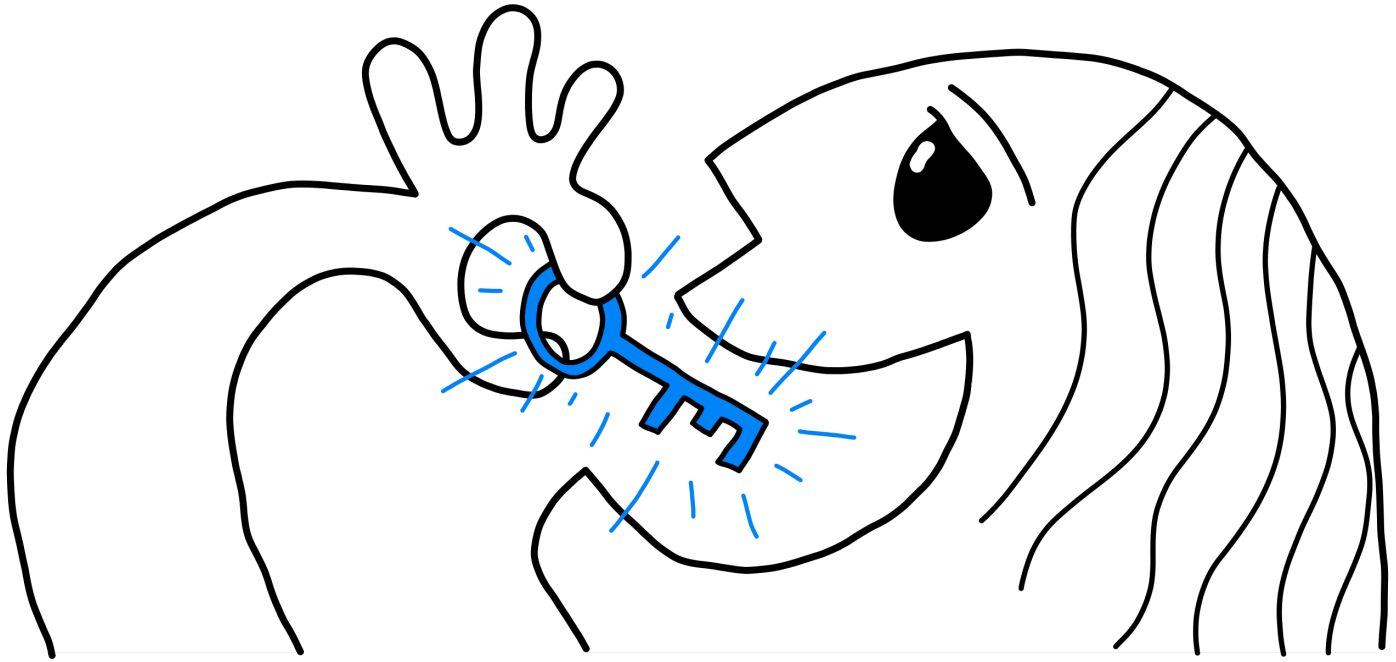
News

G7 leak: Pirate Party server seized by police

Simon Lüthje • 27. June 2022

For the publication of secret documents, they used, among other things, the CryptPad instance of the Pirate Party, which allows the public and free sharing of documents. Server hoster Hetzner was informed about the ongoing investigations and subsequently took the servers off the network, the party writes further.

Protect The Server From Its Users



We Need Open Source *and* E2EE for Good Trust Assumptions

CryptPad

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Yann Flory - Privacy Engineer
Mathilde Grünig - Community & Support
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