

Architectures

User Freedoms

Live Space

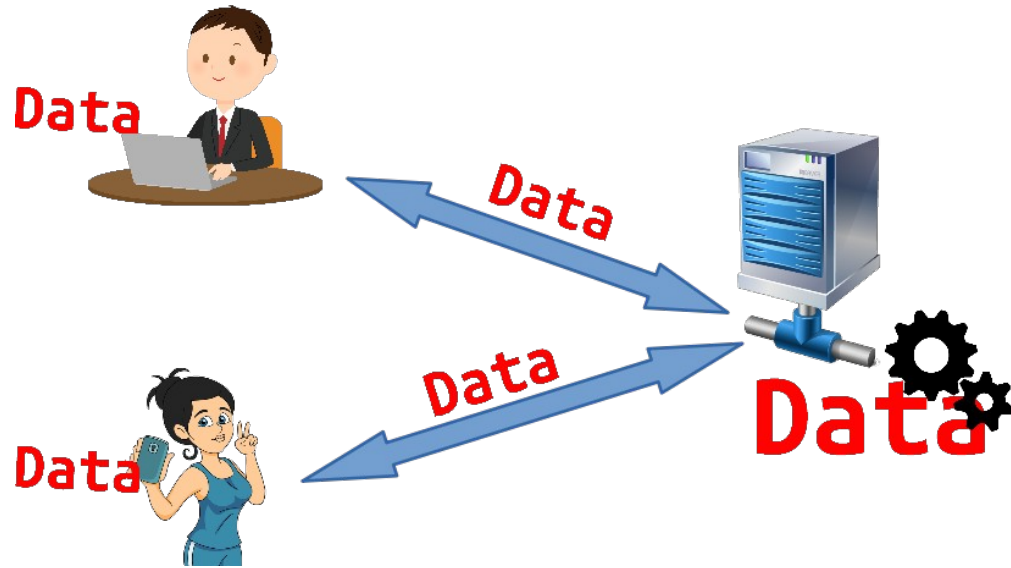
*KWLUG
January 2021 talk*

Live Spaces

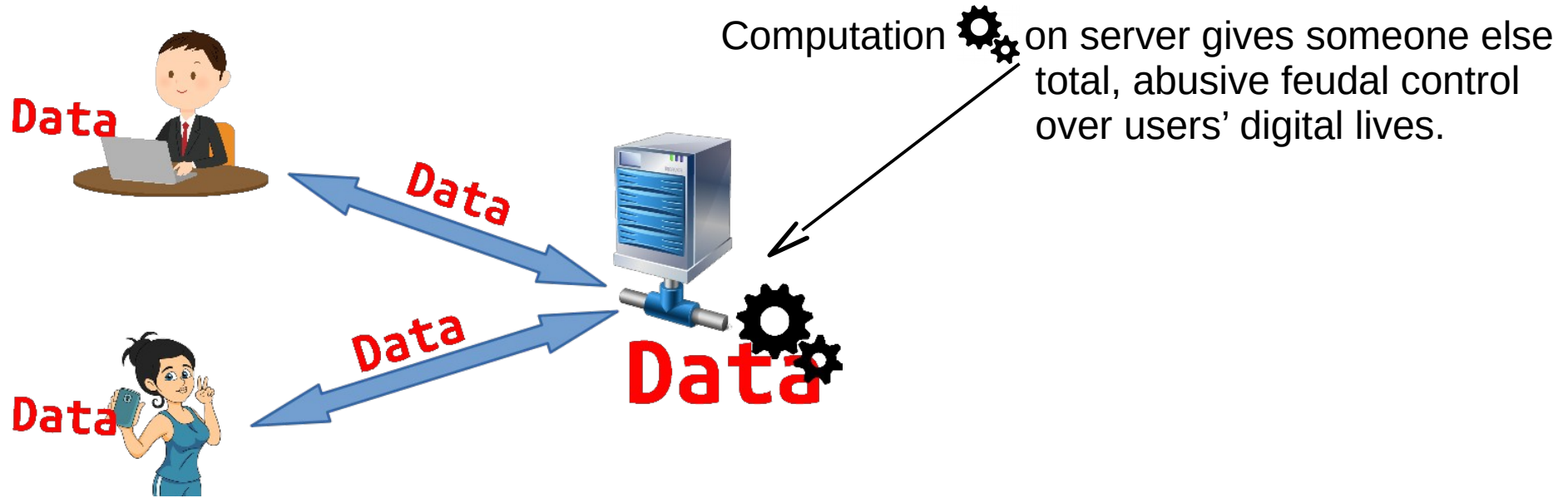


A message from George (T)Orwell: <https://www.youtube.com/watch?v=o66FUc61MvU>

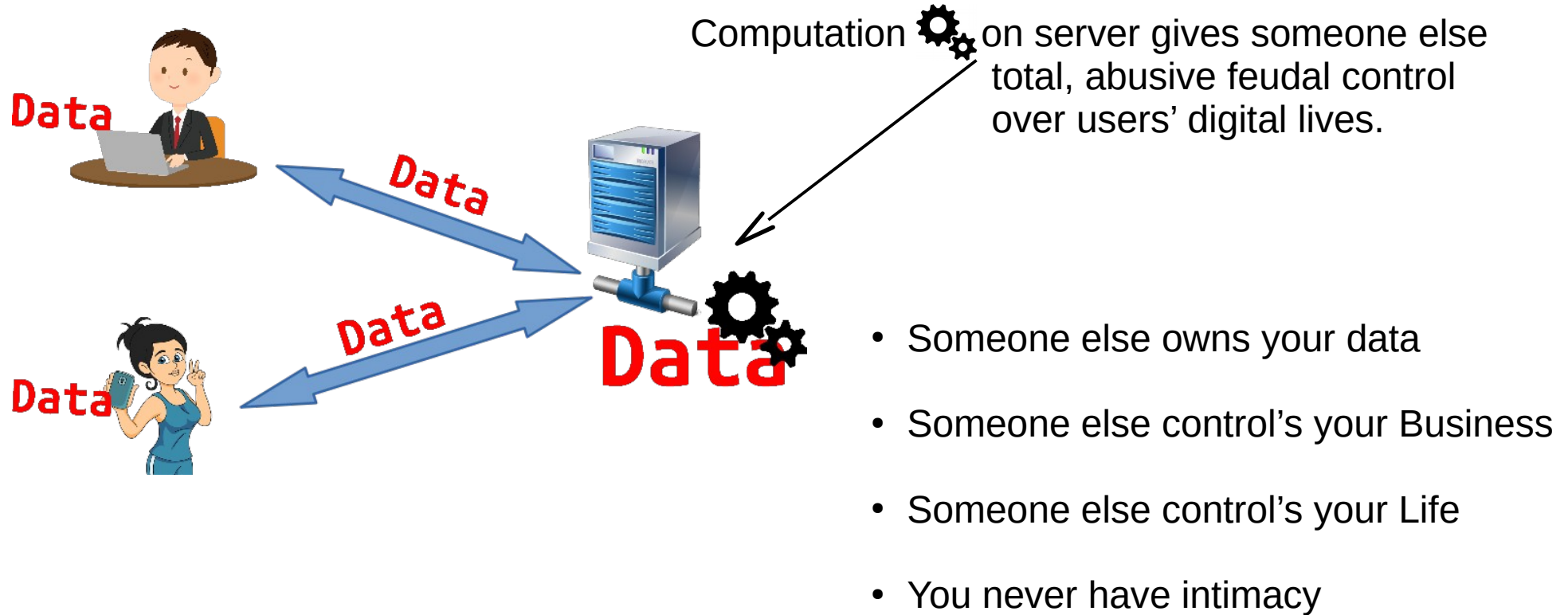
Architecture that breeds Digital Feudalism



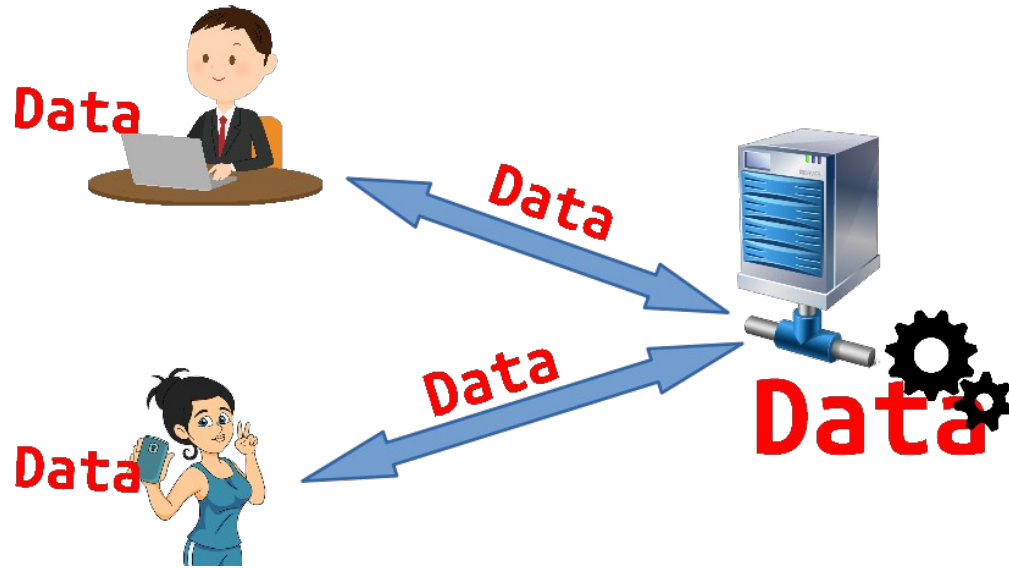
Digital Feudalism



Digital Feudalism

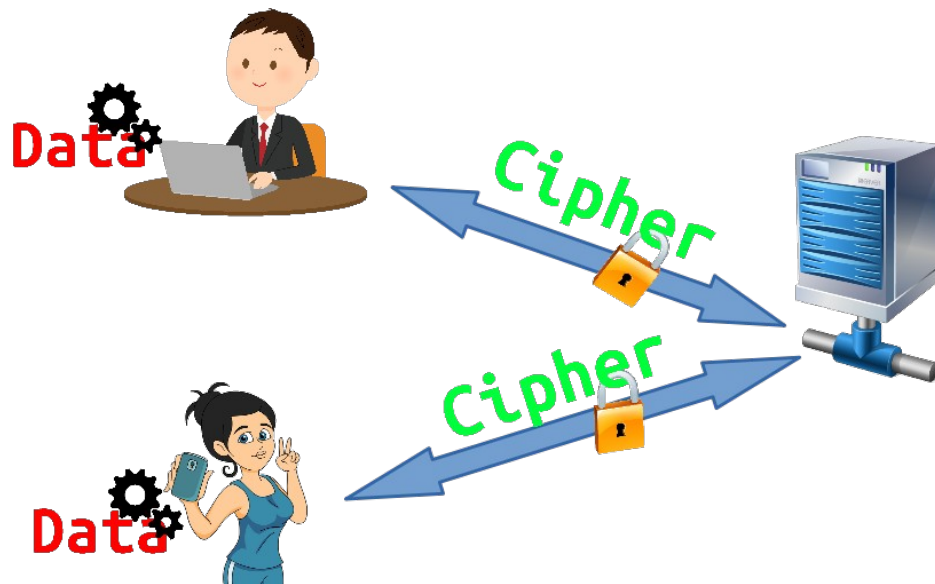
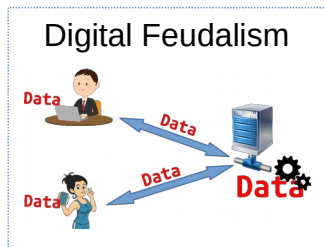


Digital Feudalism

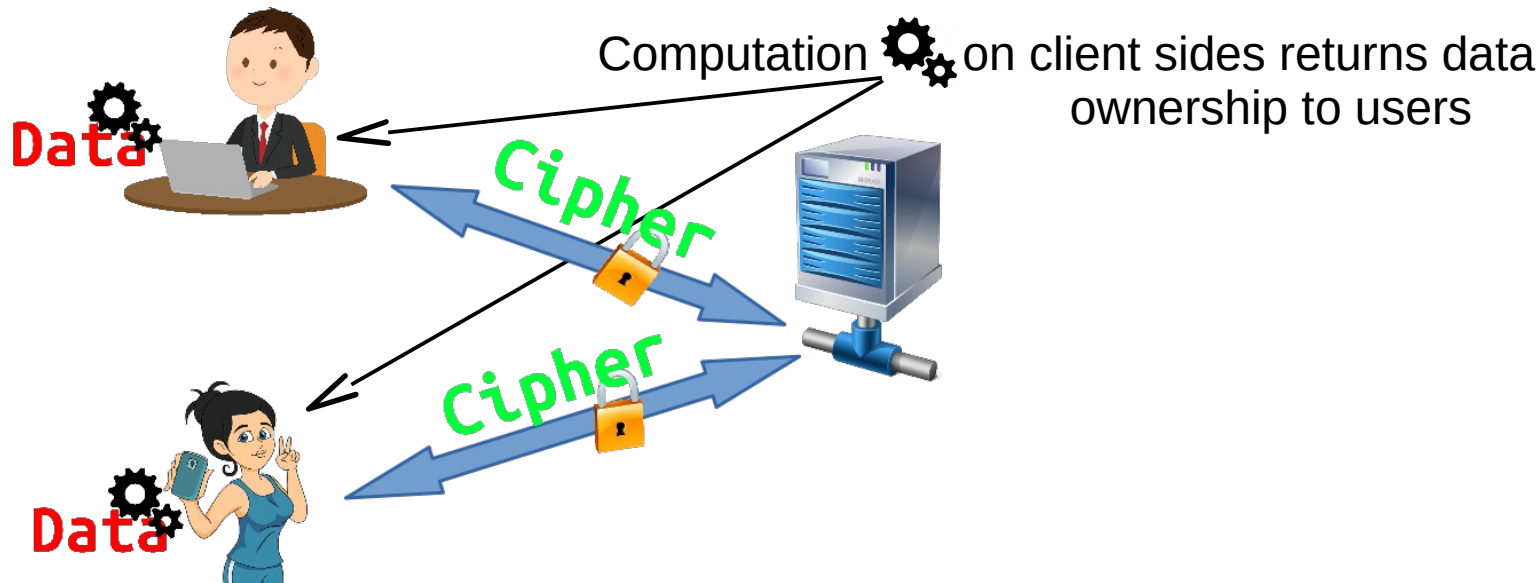
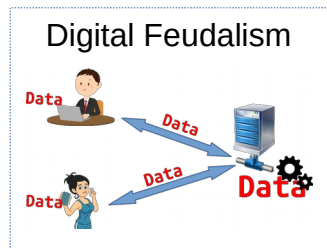


Terms **and**
Conditions
May Apply

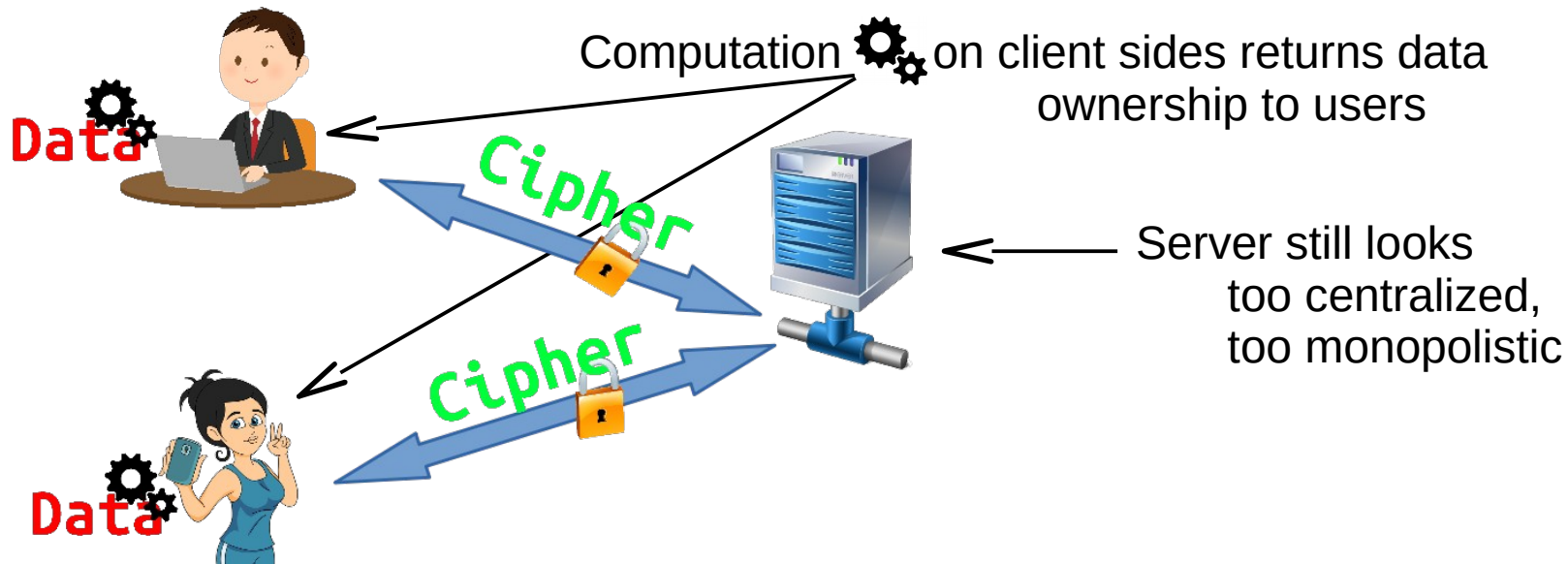
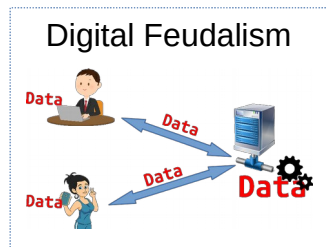
Architecture for Data Ownership



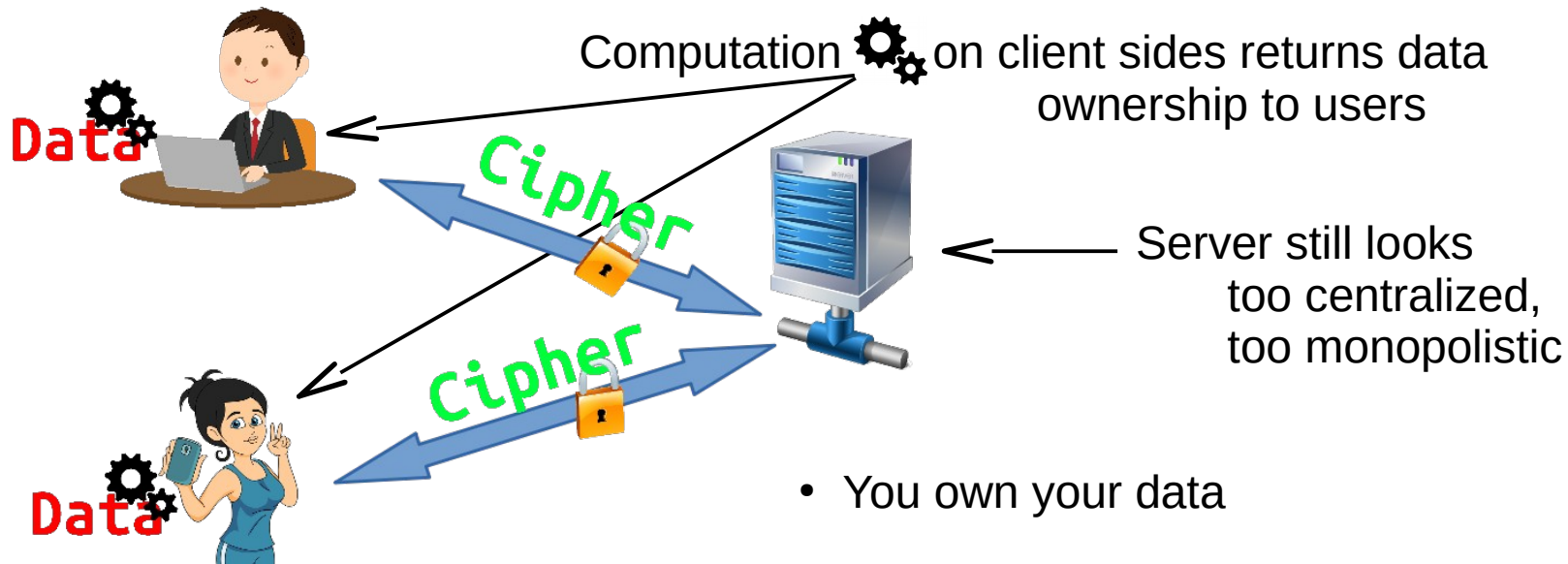
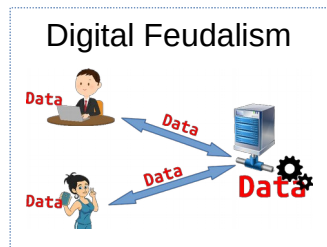
Data Ownership



Data Ownership

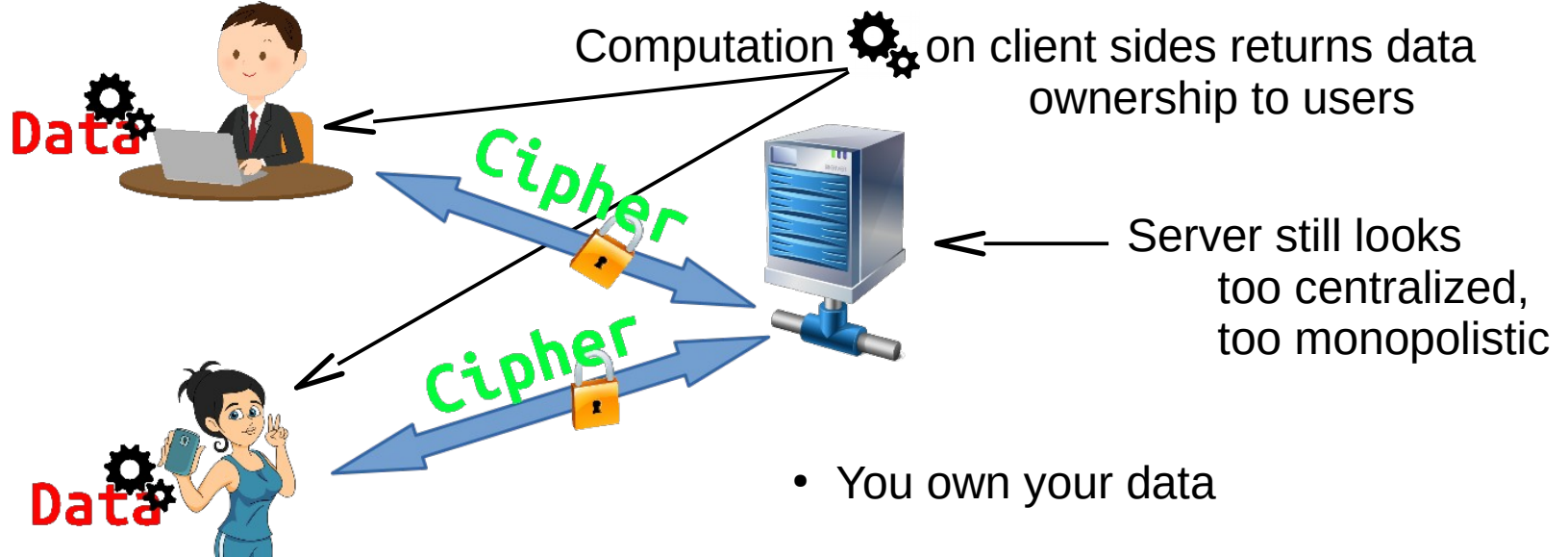
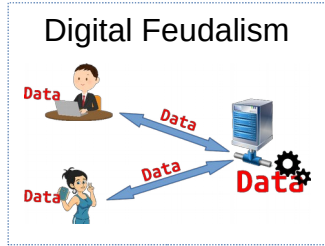


Data Ownership



- You own your data
- You have data privacy

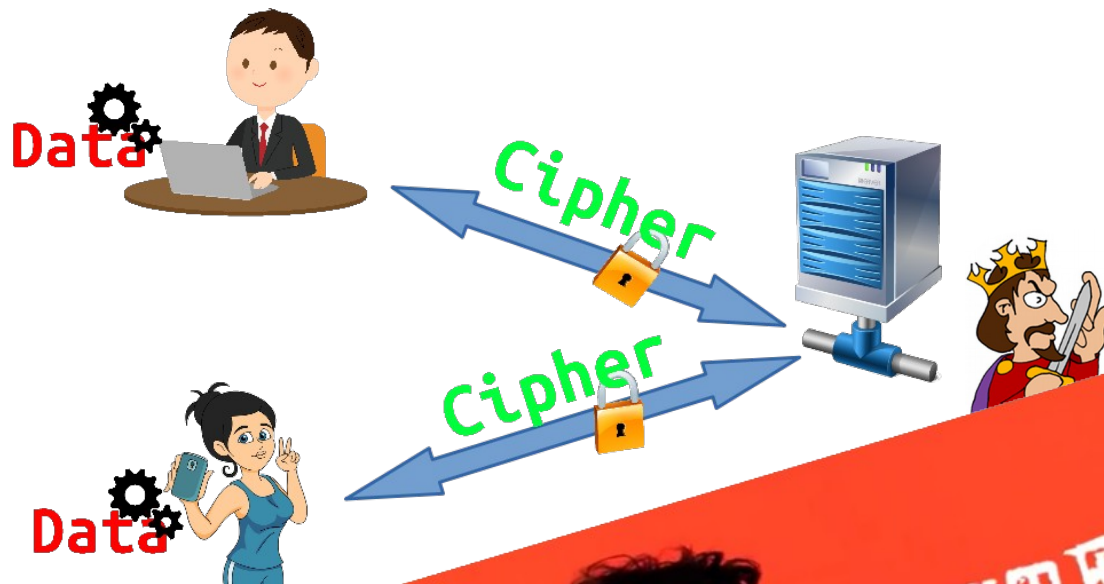
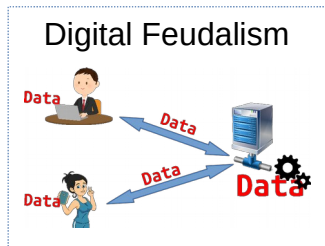
Data Ownership



- You own your data
- You have data privacy
- Monopolistic provider may create problems or may get into problem



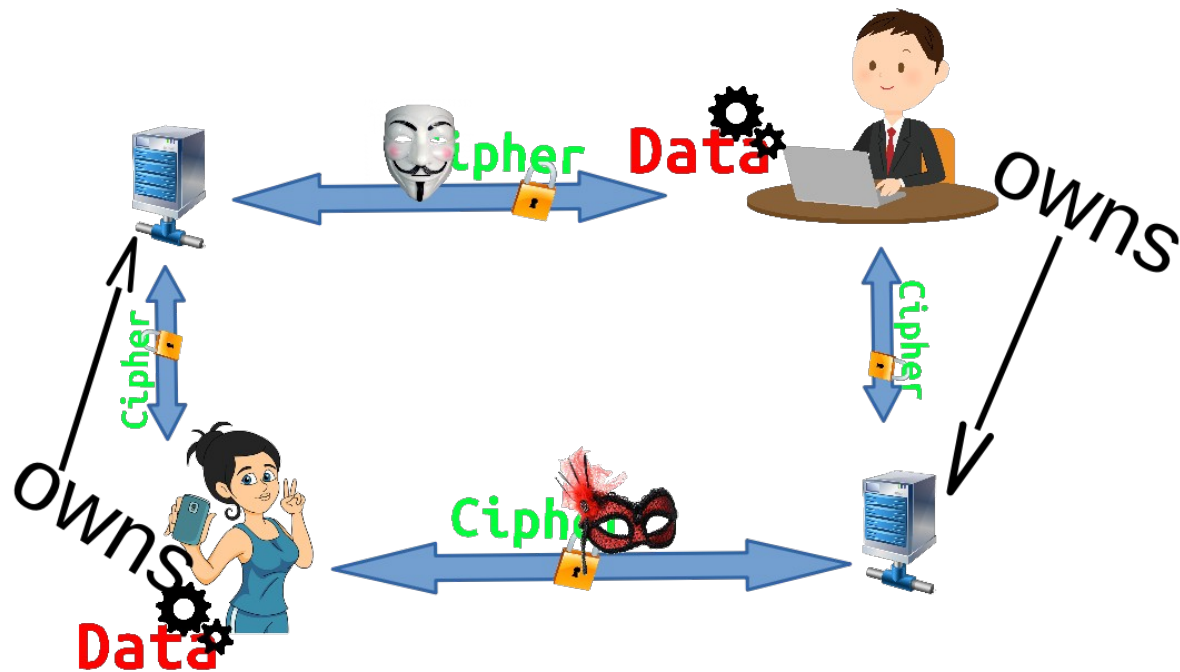
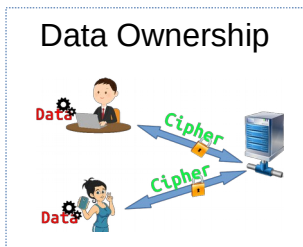
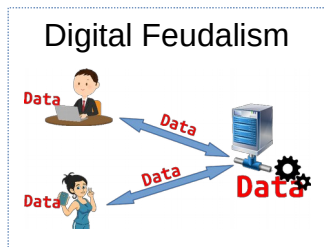
Data Ownership



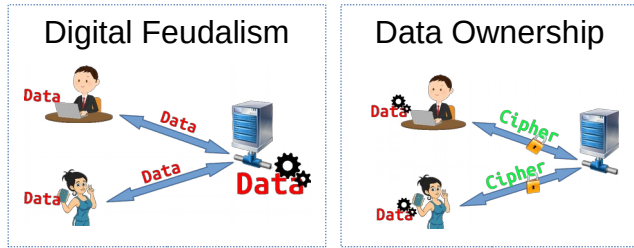
WTF AUSTRALIA



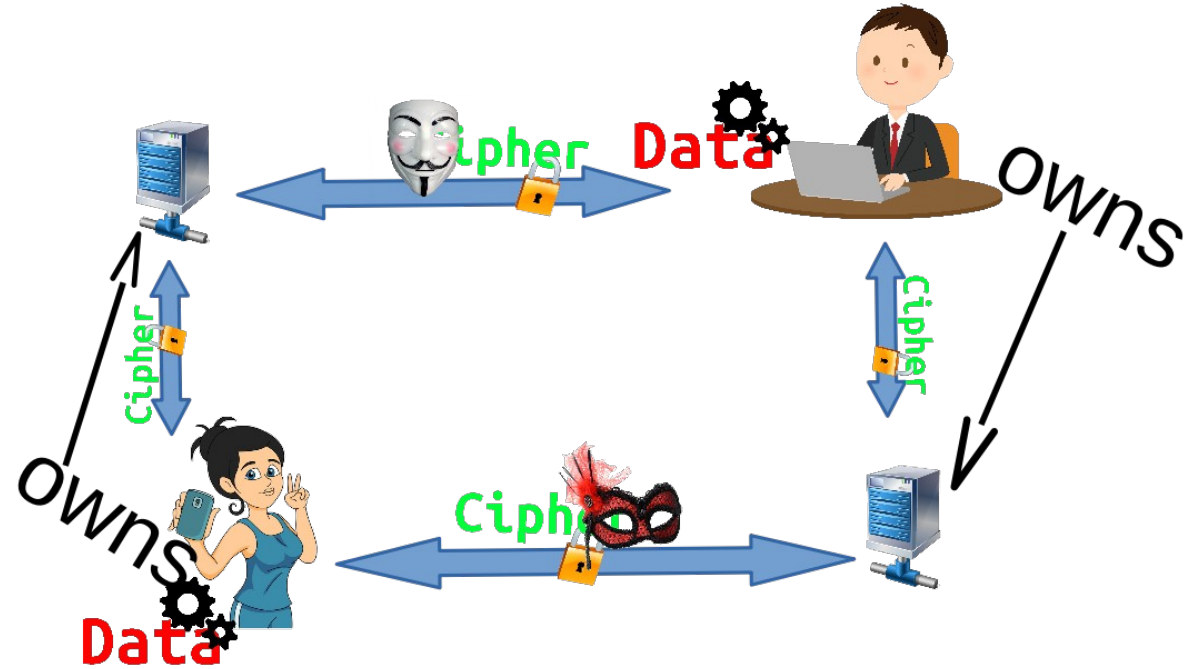
Architecture for Digital Freedom



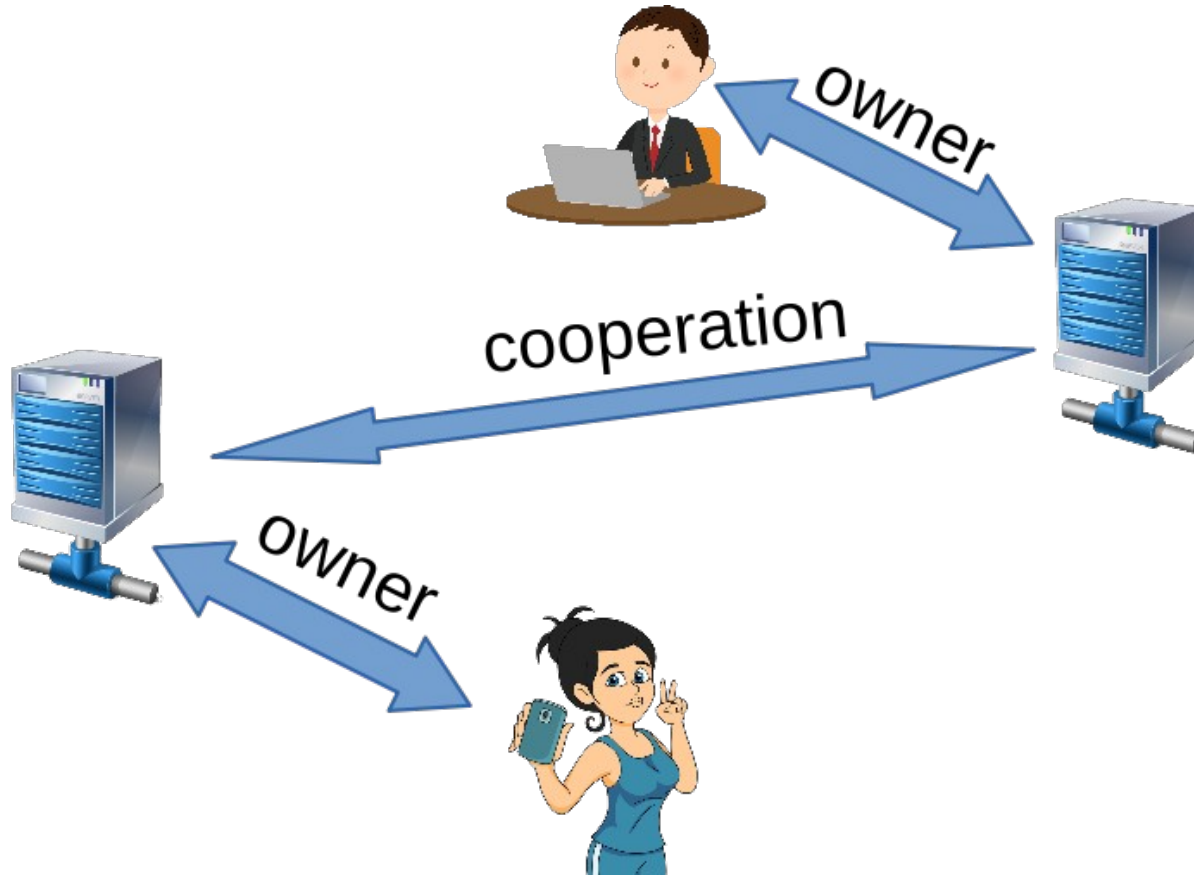
Digital Freedom



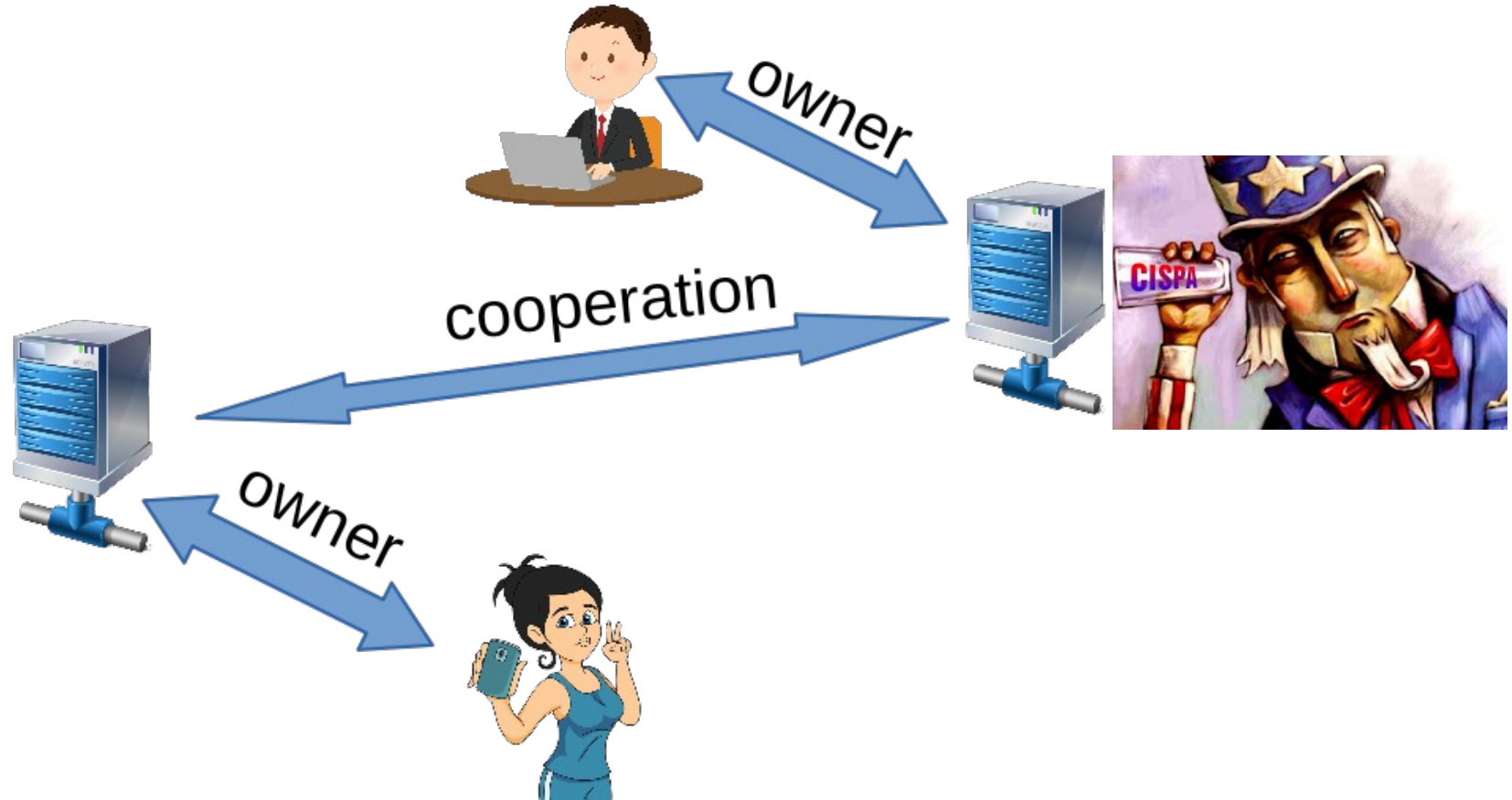
Web style federation:
a) ensures choice
of utility providers
b) reduces surveillance



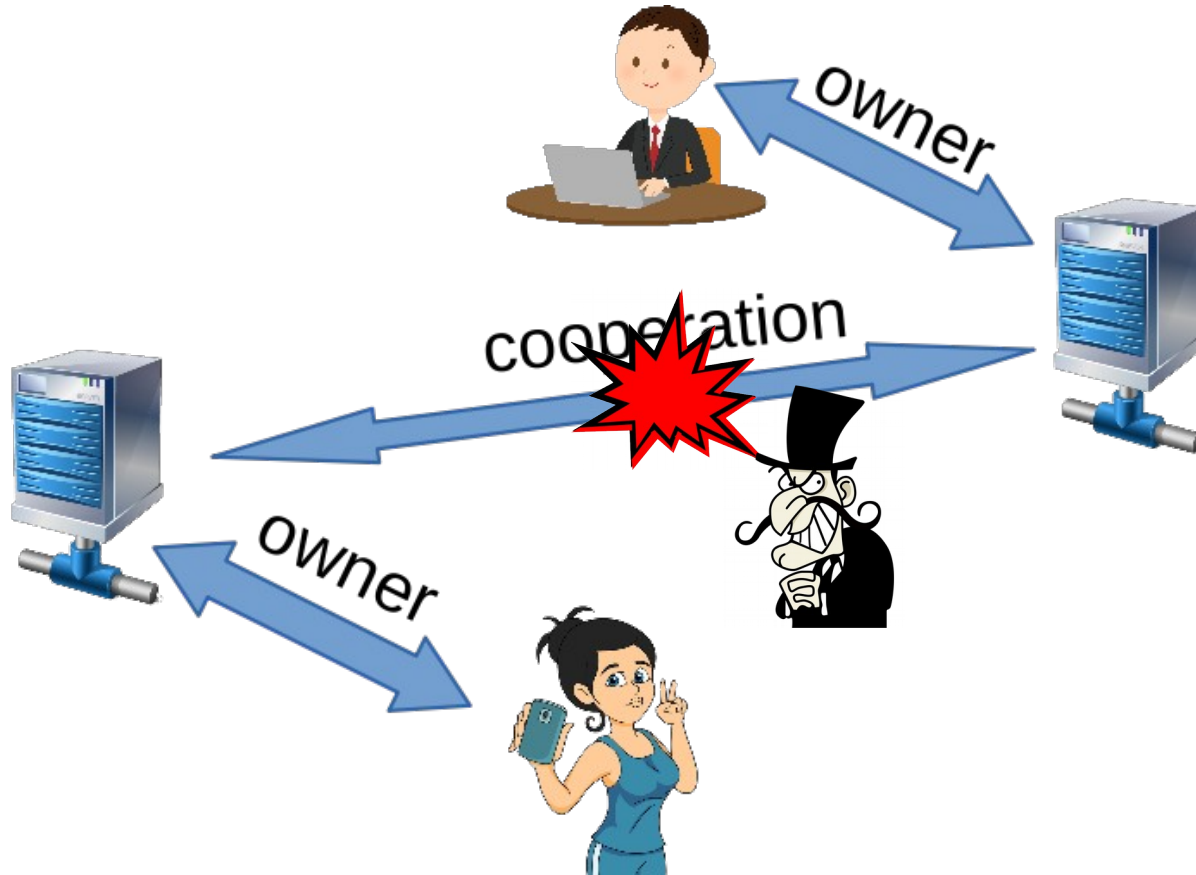
Federation revisited: classical federation



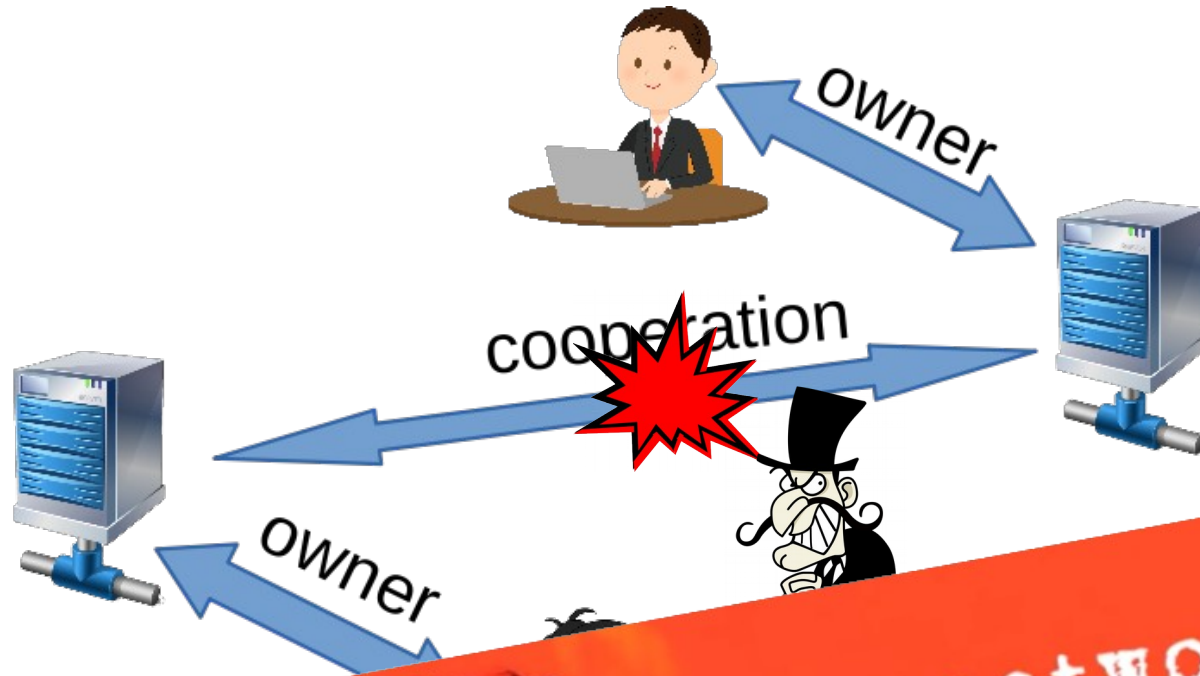
Federation revisited: classical federation



Federation revisited: classical federation



Federation revisited: classical federation



All networks are equal.
But some networks are more
equal than others.

Federation revisited: false choice?



Reflections: The ecosystem is moving

moxie0 on 10 May 2016

At Open Whisper Systems, we've been developing open source "consumer-facing" software for the

Stuck in time

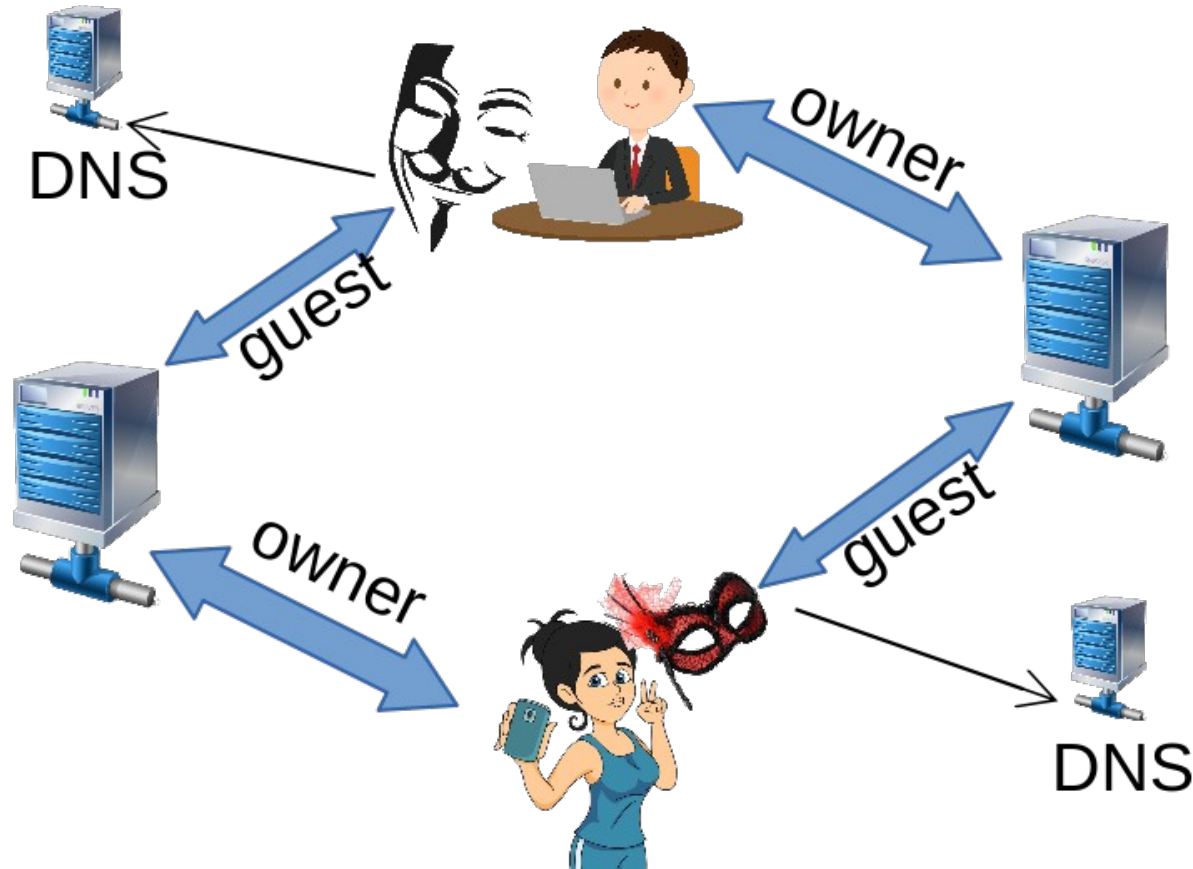
In some circles, this has not been a popular opinion. When someone recently asked me about federating an unrelated communication platform into the Signal network, I told them that I thought we'd be unlikely to ever federate with clients and servers we don't control. Their retort was "that's dumb, how far would the internet have gotten without interoperable protocols defined by 3rd parties?"

On Privacy versus Freedom

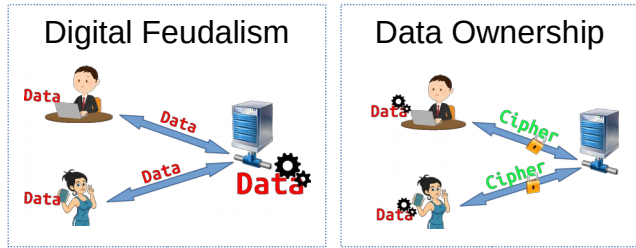
2020-01-02 — [Thoughts](#) — Matthew Hodgson

A few years ago, back when Matrix was originally implementing end-to-end encryption, we asked Moxie (the project lead for Signal) whether he'd ever consider connecting Signal (then TextSecure) to Matrix. After all, one of Matrix's goals is to be an interoperability layer between other communication silos, and one of the reasons for us using Signal's Double Ratchet Algorithm for Matrix's encryption was to increase our chances of one day connecting with other apps using the same algorithm (Signal, WhatsApp, Google Allo, Skype, etc). Moxie politely declined, and then a few months later wrote "[The ecosystem is moving](#)" to elaborate his thoughts on why he feels he "no longer believes that it is possible to build a competitive federated messenger at all."

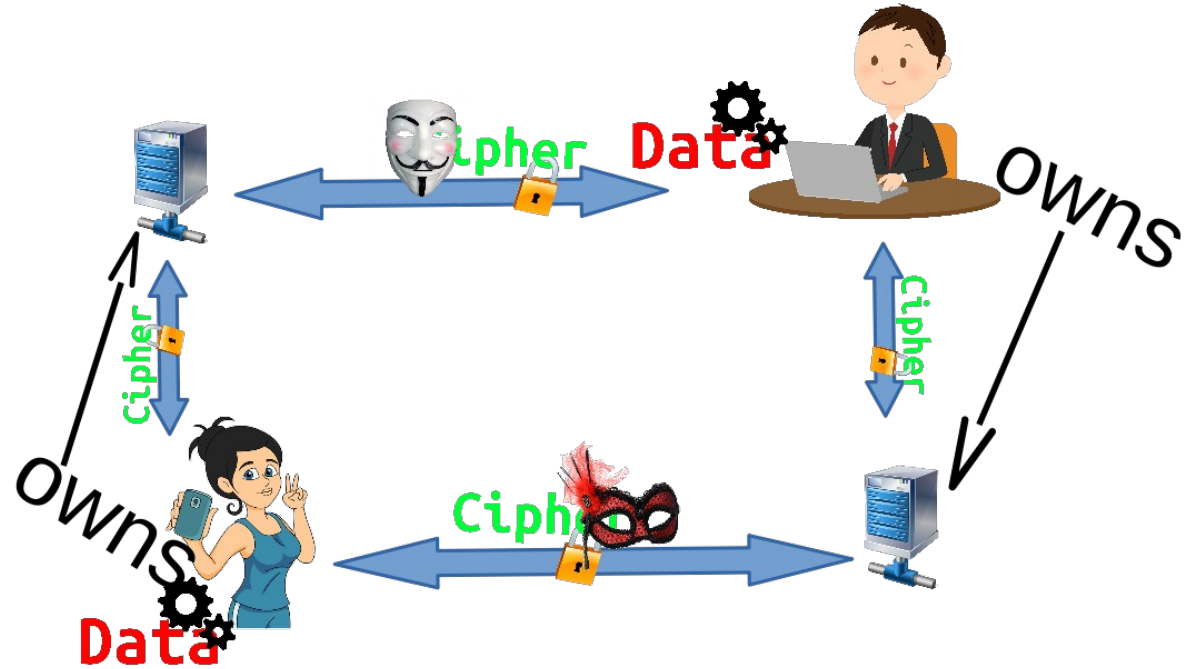
Federation revisited: web-style federation



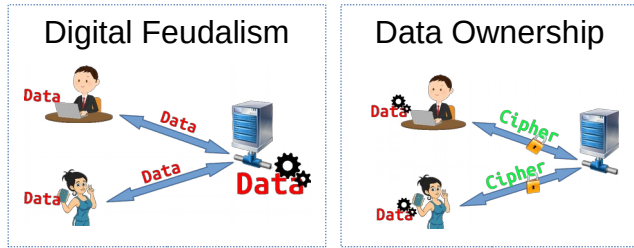
Digital Freedom



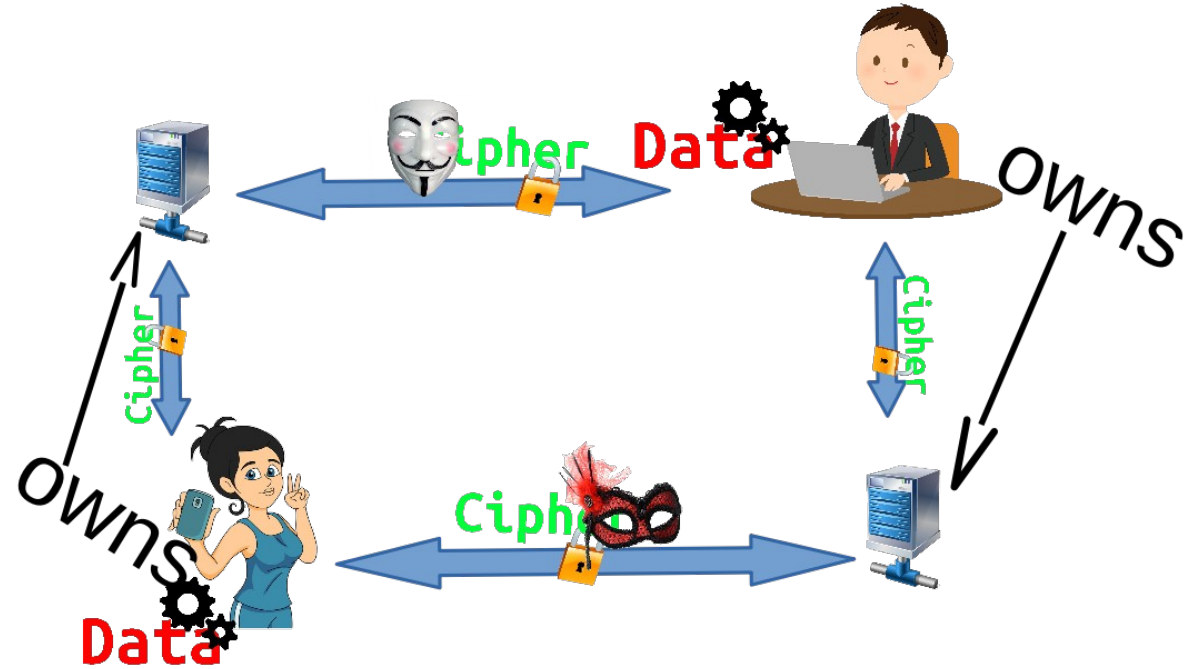
Web style federation:
a) ensures choice
of utility providers
b) reduces surveillance



Digital Freedom



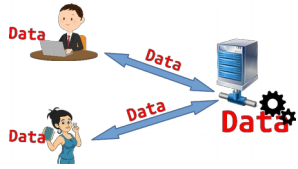
Web style federation:
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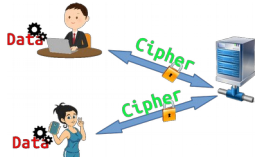
- You own your data, only you know who you talk to and what apps you run
- Service provider can't take away your freedoms

3NWeb

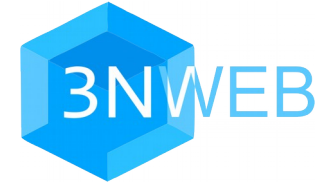
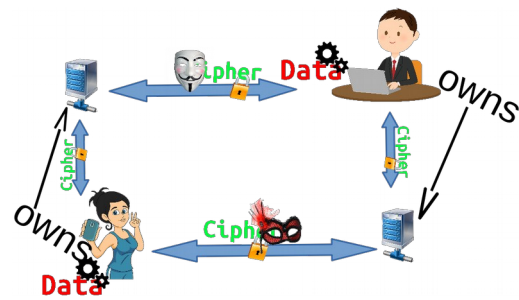
Digital Feudalism



Data Ownership



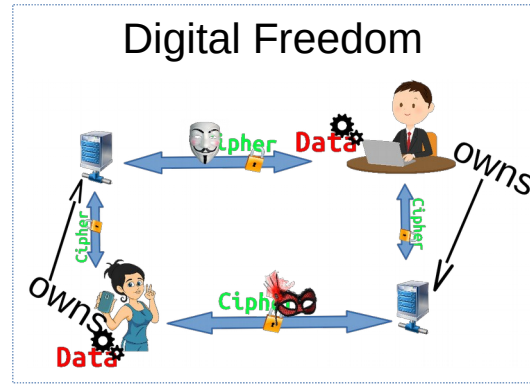
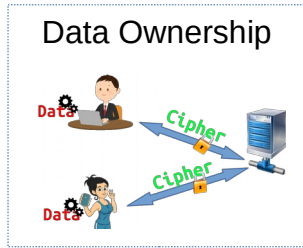
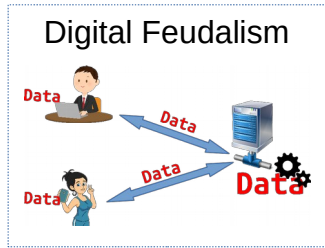
Digital Freedom



3NWeb is a set of utility services forming base for apps



3NWeb



3NWeb is a set of utility services forming base for apps

App needs:

- Disk -> persist data -> 3NStorage
- Pipe -> messaging -> ASMail
- User creds -> access -> MailerId



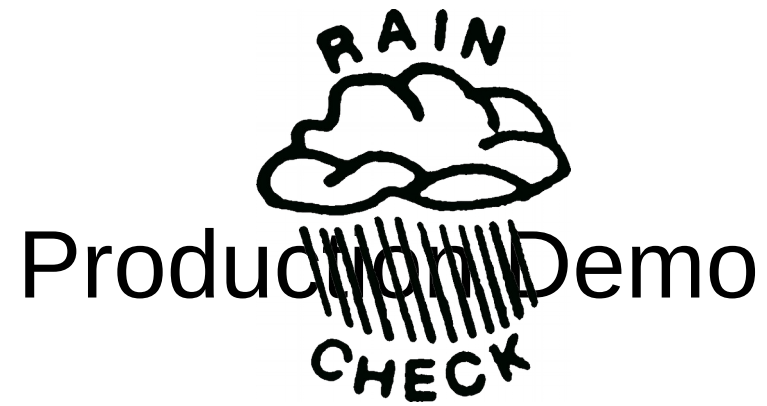
3NComputer

3NComputer is a cloud of user devices.



3NComputer: user's own Live Space







*“Running ‘terraform destroy -auto-approve’ against production”
Jean Duplessis-Bertaux, Date Unknown*

Code

- Spec server implementation with test suites (GPLv3):

<https://github.com/3nsoft/spec-server>

- Desktop Client platform (GPLv3):

<https://github.com/3nsoft/core-platform-electron>

- All 3NWeb protocols are open for everyone.
- Help us to prepare RFCs for them.



Tor is Peace

Prism is Slavery

Internet is Strength