

P E E R D O C

S E C U R E

D O C U M E N T

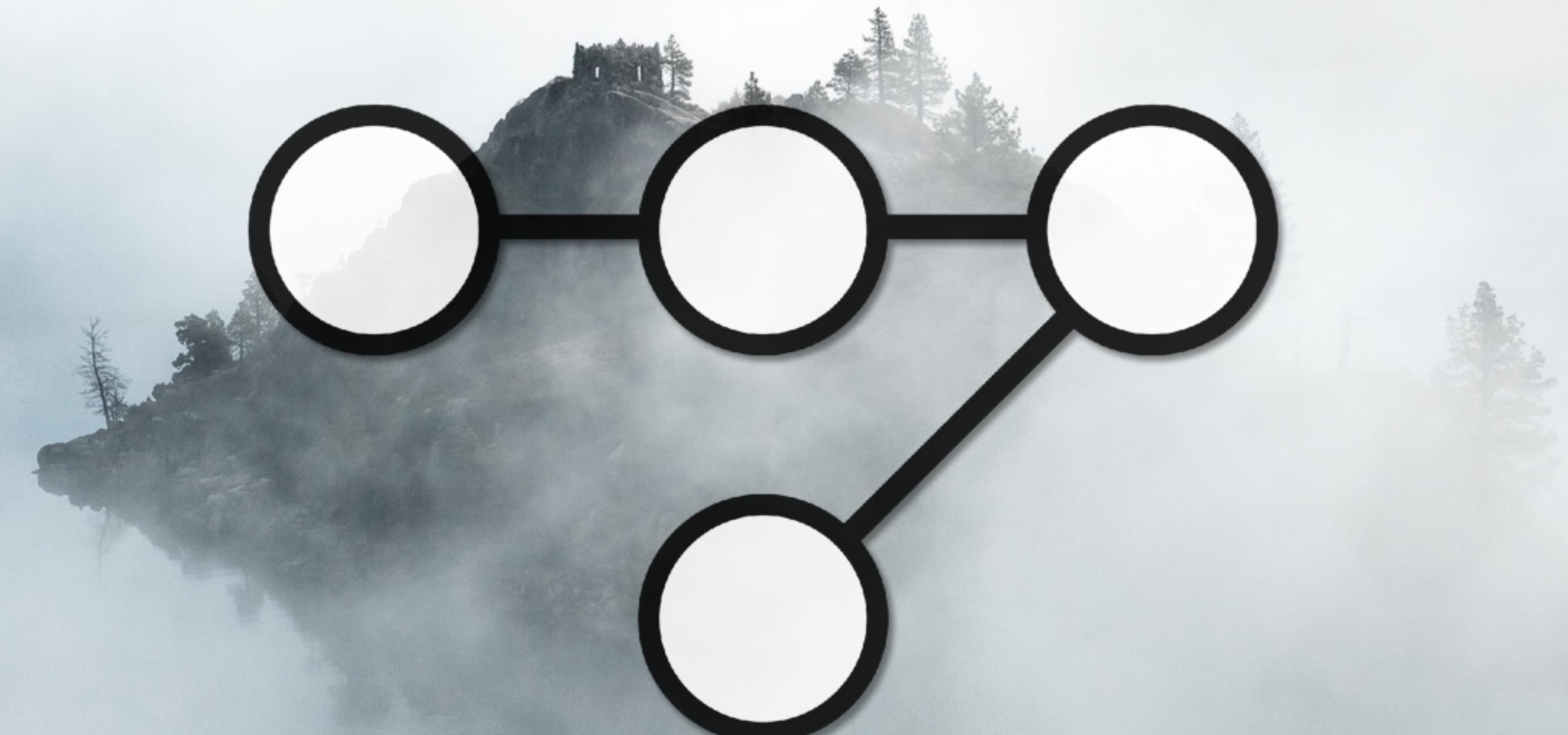
M A N A G E M E N T



TOM EKLÖF

IDEA GENERATOR
DEVELOPER

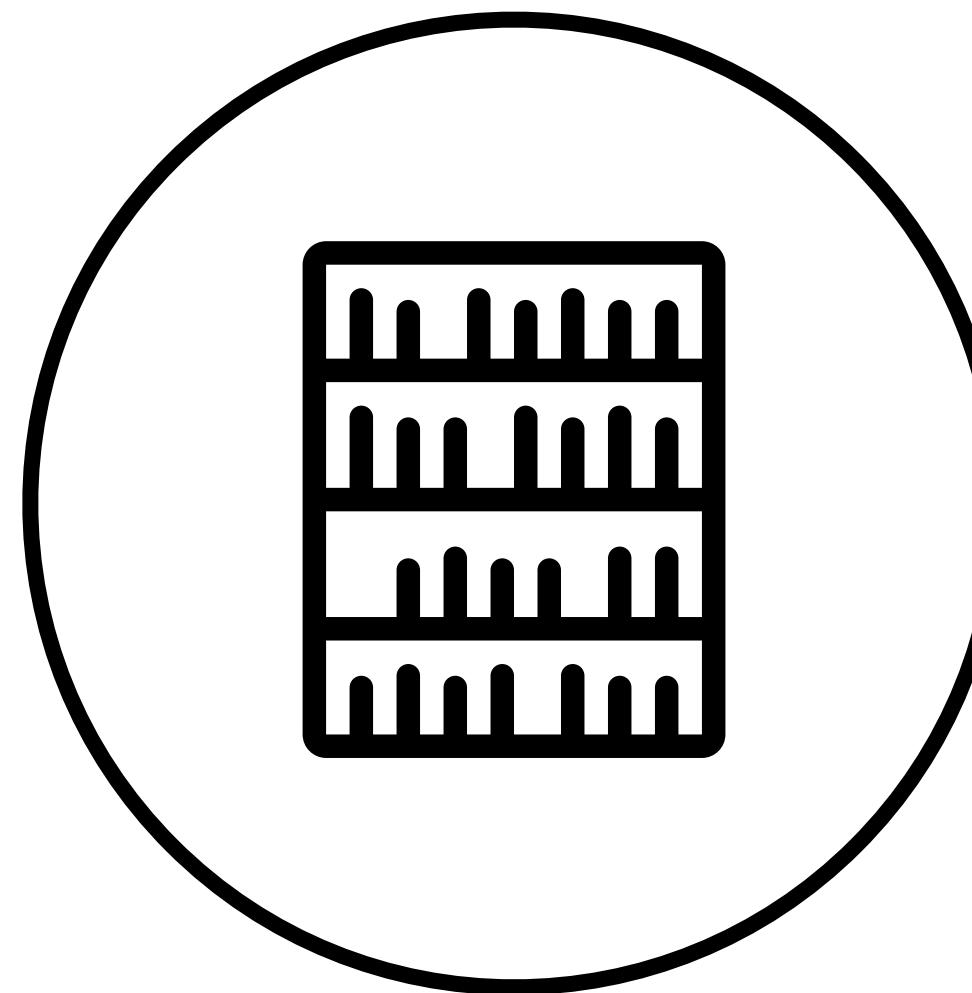
SLEETMAKERS
HELSINKI



K E E P C O N T R O L O F Y O U R L E G A L D A T A

DOCUMENT MANAGEMENT, RETHOUGHT

Peerdoc: decentralized document management that leaves you in control of your own data



OWN YOUR DATA



SECURE



EASY



TOM EKLÖF

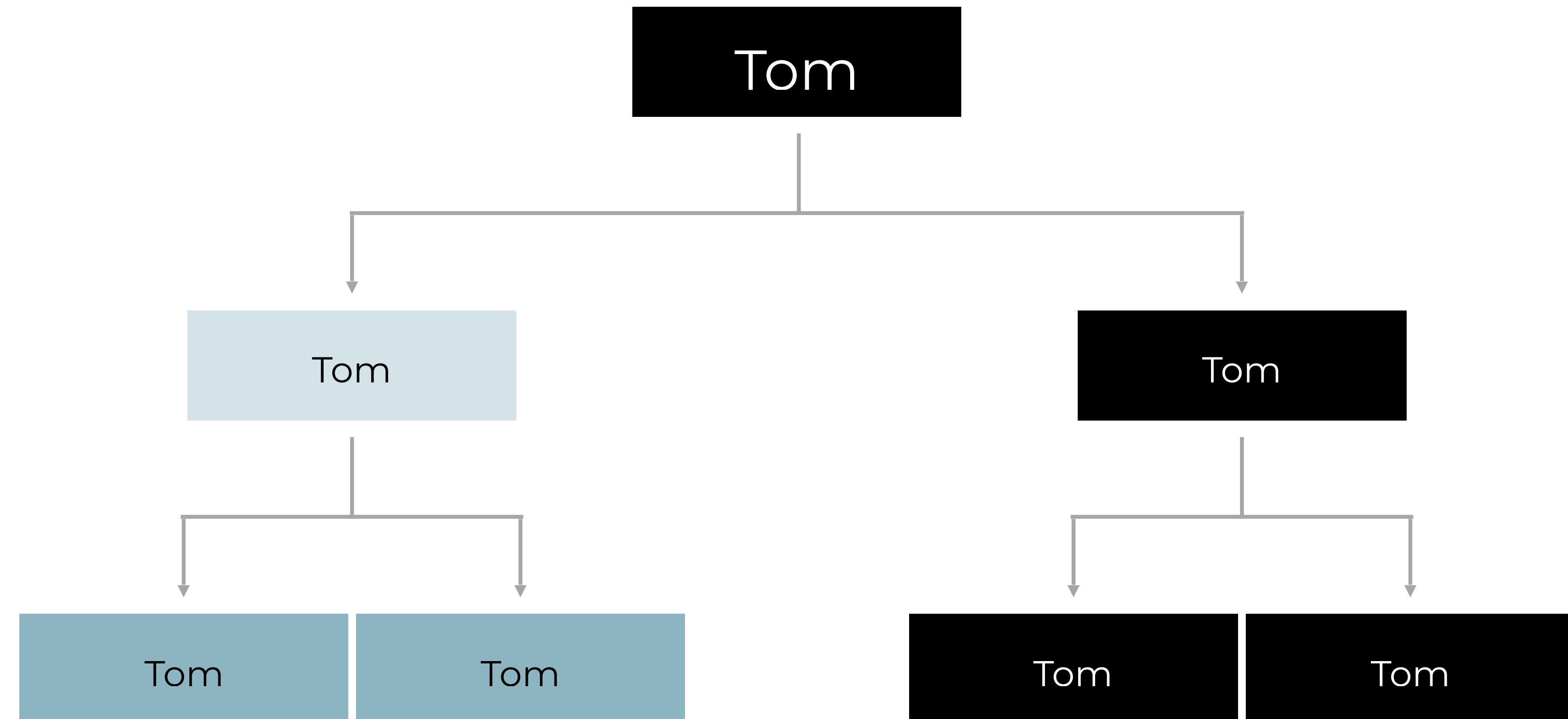
20 YEARS OF
PROGRAMMING
EXPERIENCE

10 YEARS IN THE
INDUSTRY. DO
DISTRIBUTED HIGH-
AVAILABILITY SYSTEMS

LEGAL TECH LAB
ADVISORY BOARD
MEMBER

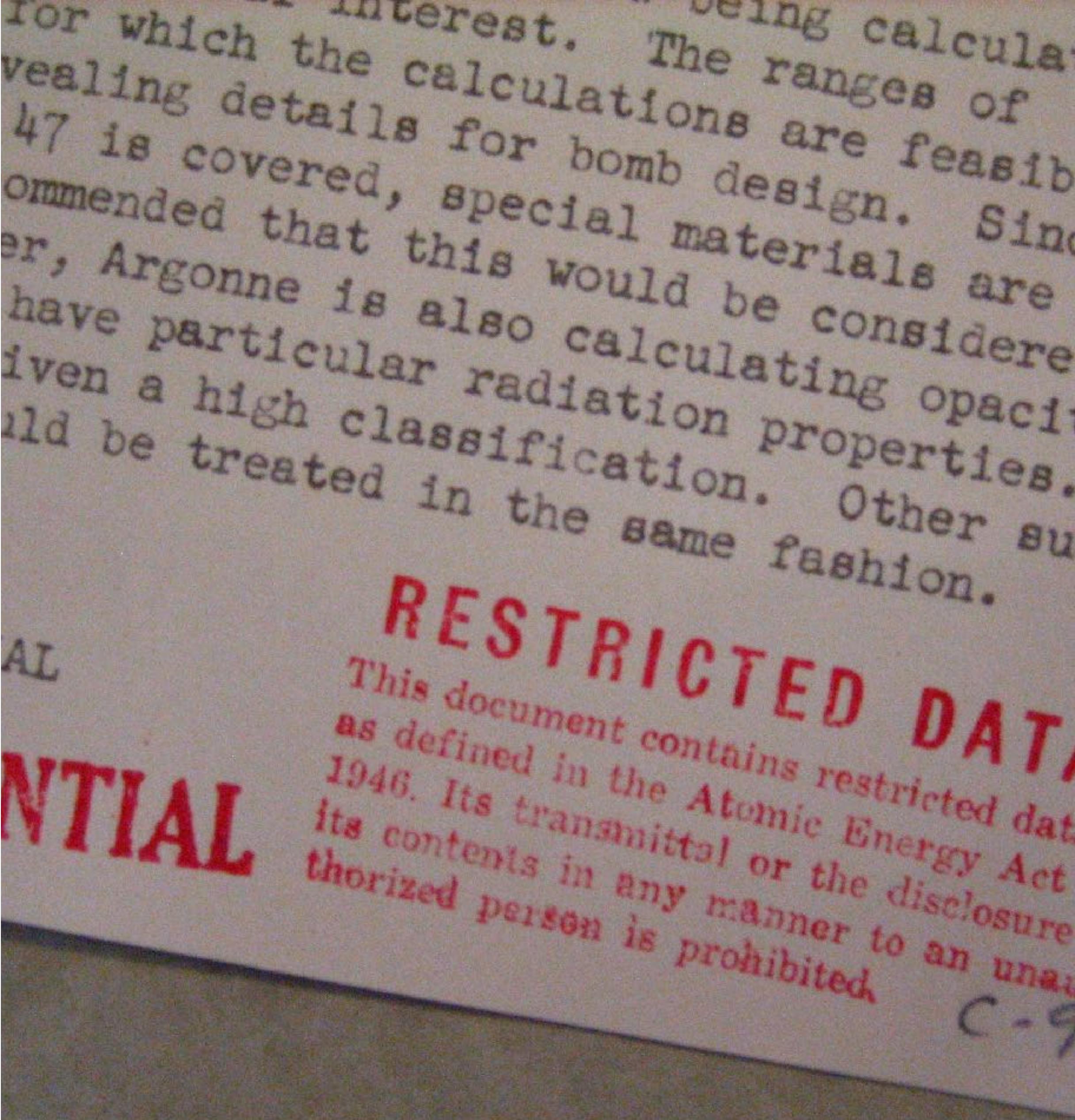
NERD

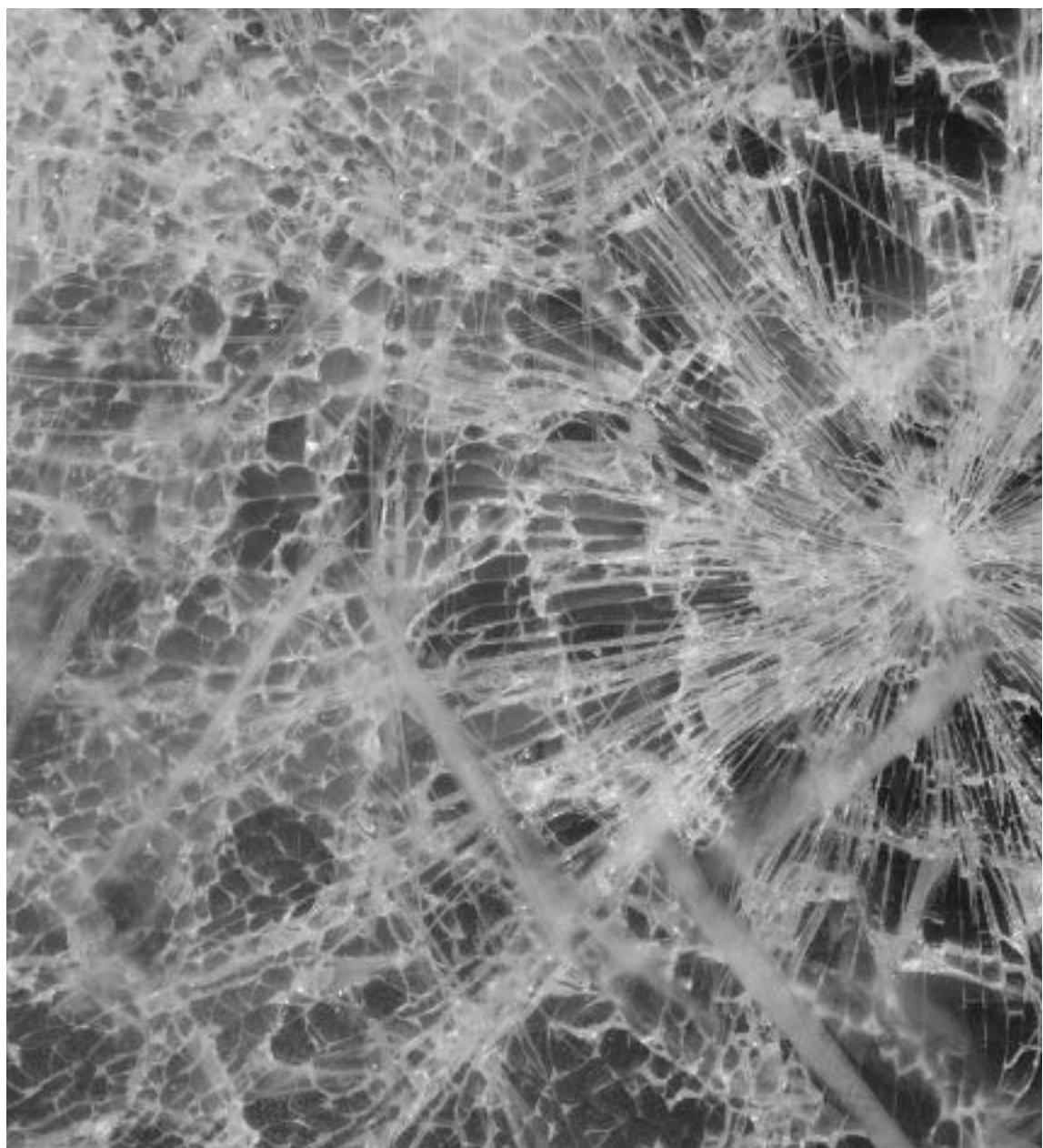
"TEAM"



LAWYERS AND DIGITAL DOCUMENTS

- Send, receive, store tons of confidential documents
- By law, they **should** store and share them securely



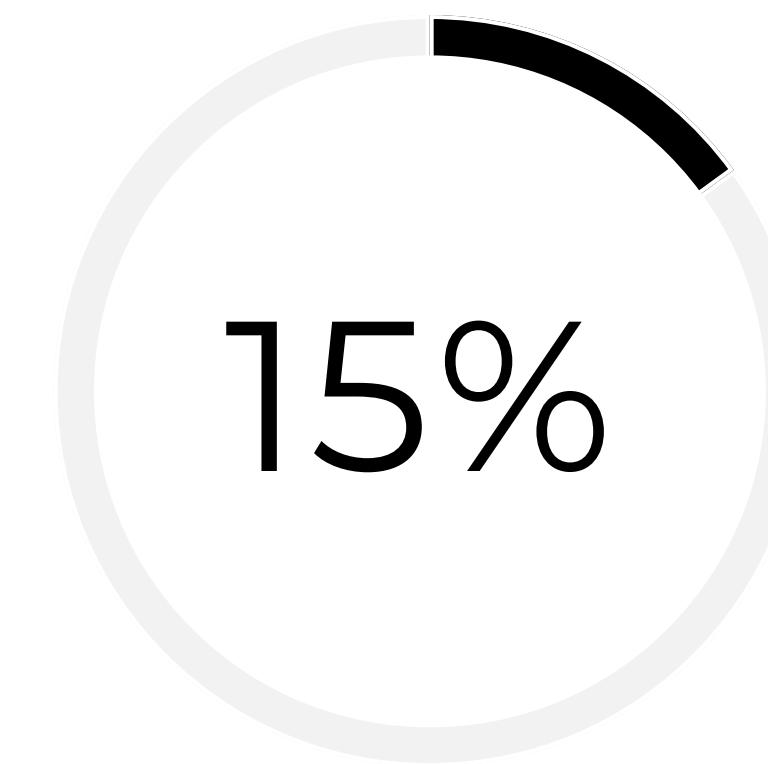
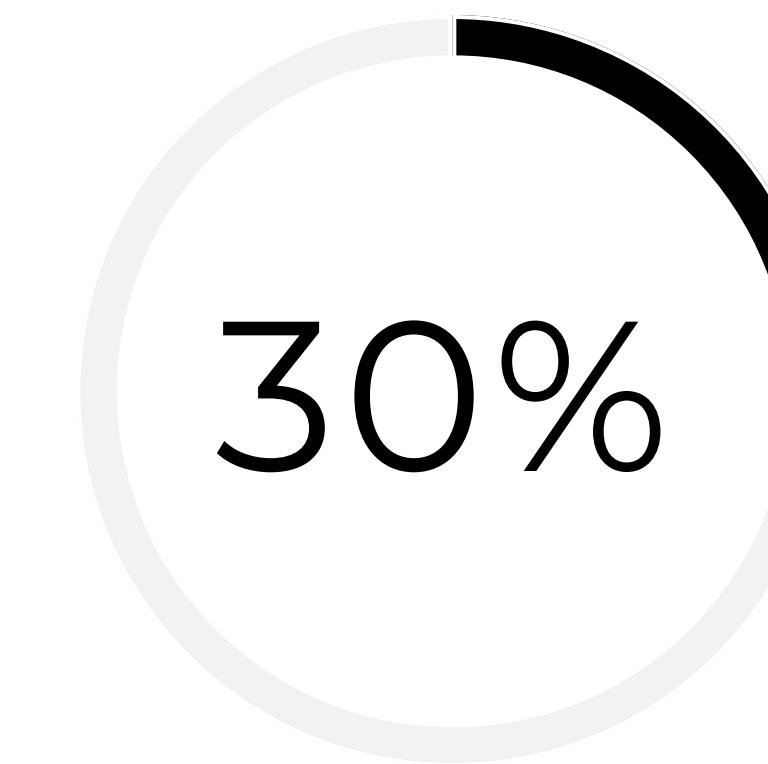
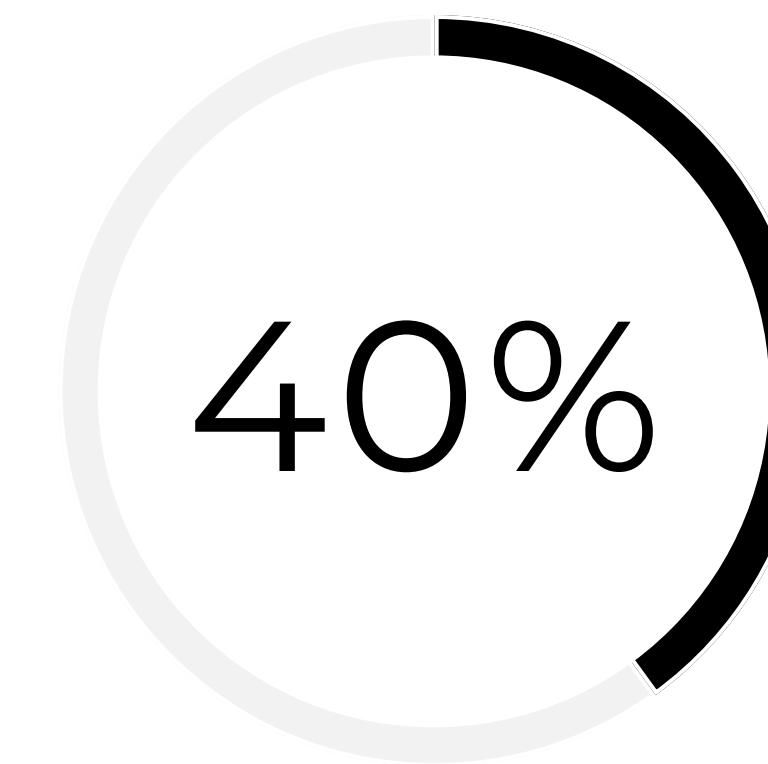
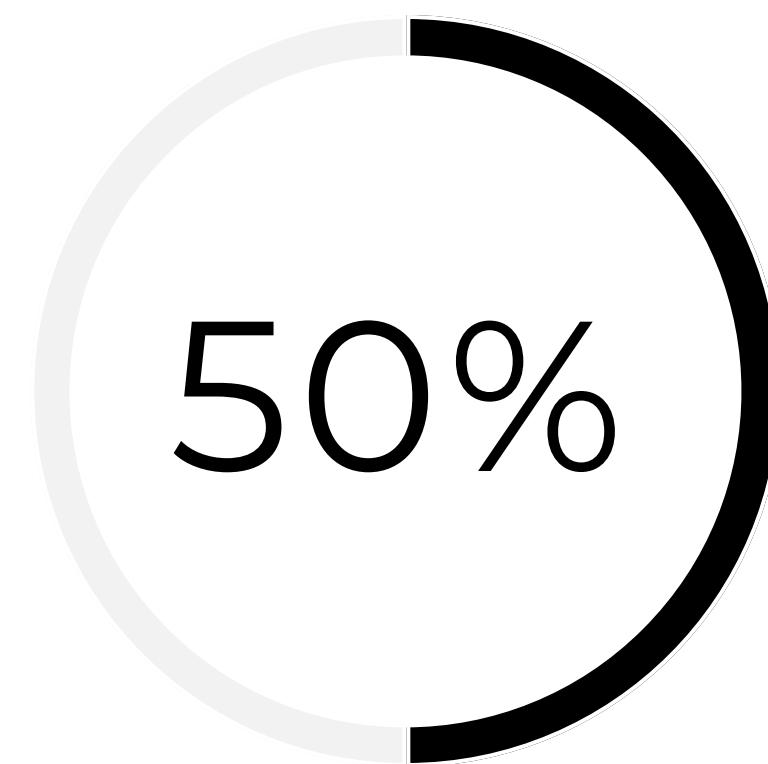


REALITY CHECK TIME

**WARNING:
SCARY DATA AHEAD**

DOCUMENT STORAGE AND SHARING

US surveys



**USES CONSUMER
FILE SHARING**

**USES CONSUMER
INSTANT MESSAGING**

**DO OFF-SITE
BACKUPS**

**ENCRYPT THEIR
HARD DRIVE**

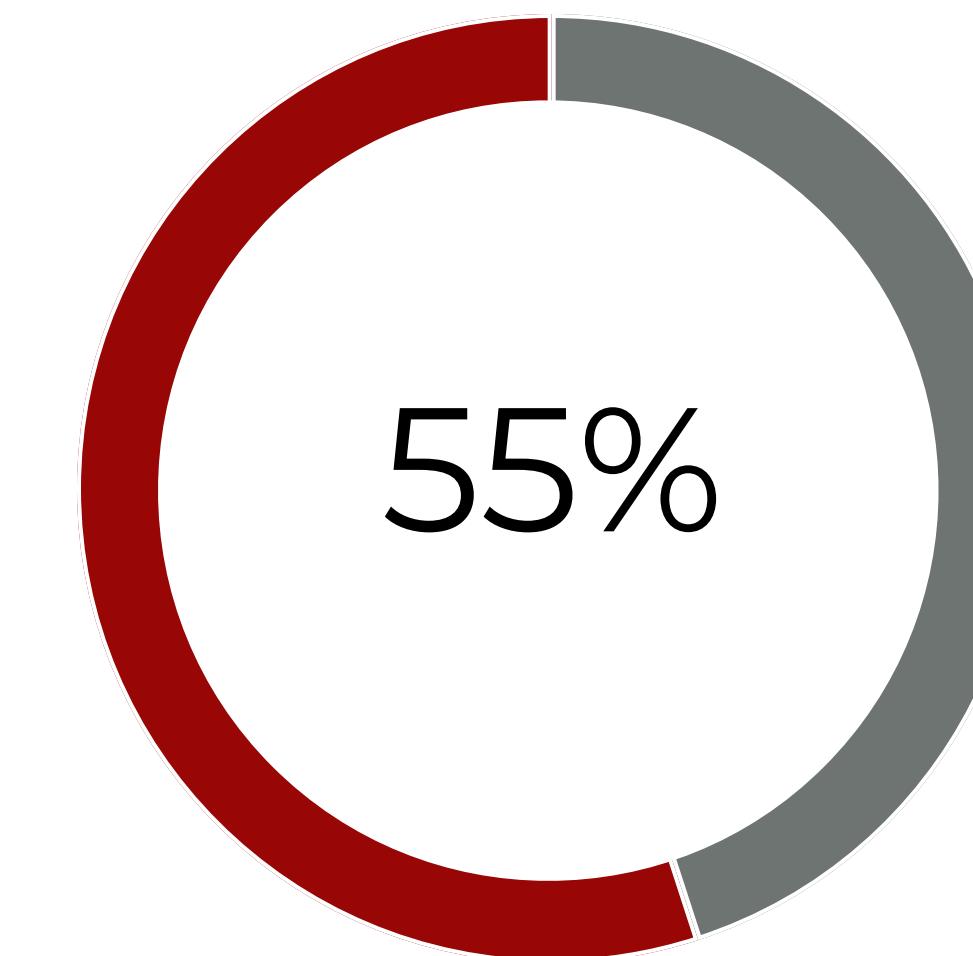
➤ Confidentiality & security?!

Sources:

LexisNexis: [file sharing survey](#), 2014. LexisNexis: [Cloud Technology in the Legal Industry Report](#), 2014. American Bar Association: [Tech Report](#), 2016. Thomson Reuters Solo and Small Law Firm Group: [survey of small and solo law firm management](#), 2016, Logicforce: [Law Firm Cyber Security Scorecard - Q1, 2017](#)

A reproduction of Edvard Munch's famous painting "The Scream". It depicts a figure with a pale, distressed face screaming in anguish, set against a background of a dark, swirling landscape under a sky filled with orange, yellow, and red streaks.

CONFIDENTIAL E-MAIL PROTECTION



CONFIDENTIALITY STATEMENT ONLY

The International Consortium of Investigative Journalists

Home Projects Journalists About ICIJ Leak to us Donate

THE ICIJ

Home World U.S. Politics Economics Markets

 CFPB Deputy Chief Sues Trump Over Agency Leadership

 Senate Gears Up for Wide-Ranging Year

THE PANAMA PAPERS
Politicians, Criminals and the Rogue Industry That Hides Their Cash



CNET SECURITY

TECH • CYBERSECURITY

Law Firm DLA Piper Reels Under Cyber Attack; Fate of Files Unclear



Here's What to Know About the Latest Cyberattack
Fortune breaks down the latest massive cyberattack that spread internationally.

Offshore law firm Appleby confirms data breach

WHICH COMPANIES HAVE BEEN HIT

Articles Malware Reviews Events Newsletters

Single knows where Android users are even if they disable location services

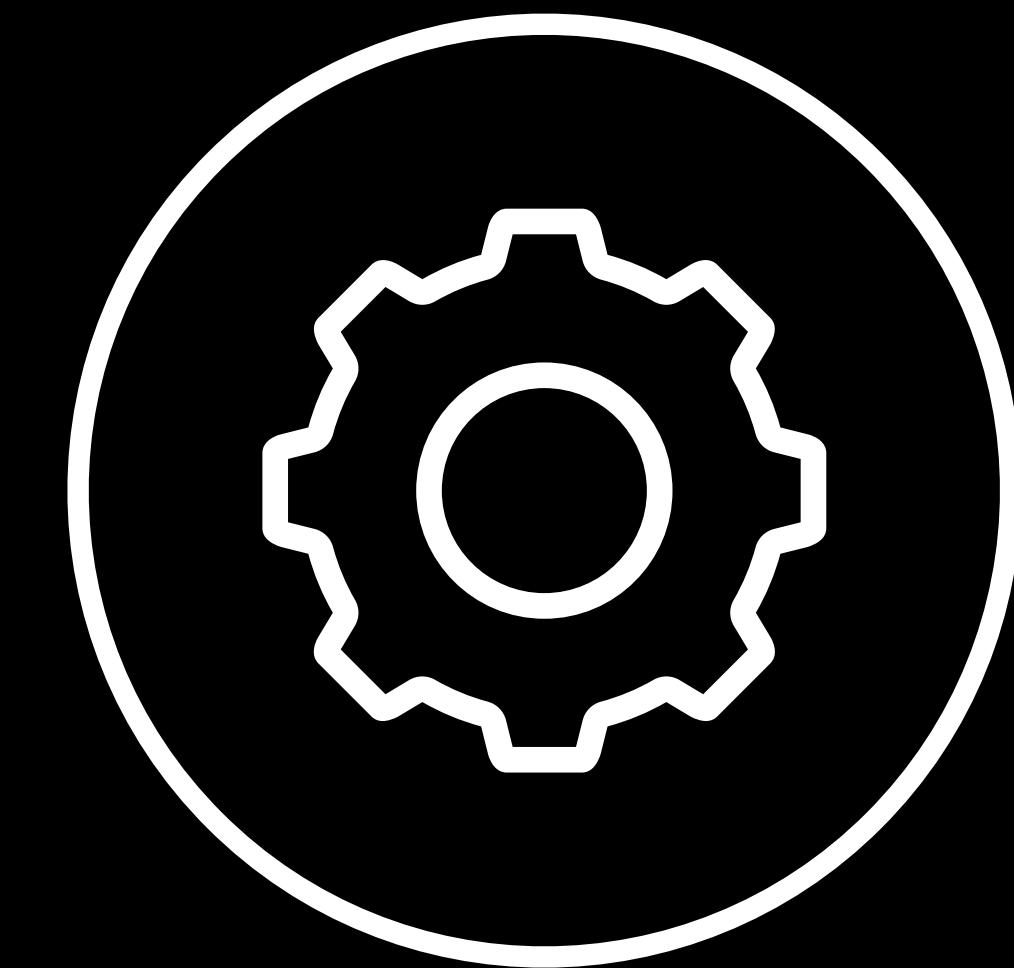
Zeljka Zorz - Managing Editor October 26, 2017



Offshore law firm Appleby confirms data breach

Templates for EU GDPR policies and procedures

Appleby, a major offshore law firm based in Bermuda, has confirmed it has suffered a data security incident in 2016 that resulted in some of their data being compromised.



W H Y ?

- ⟩ Convenience!
- ⟩ IT security is confusing & hard



CLOUD SERVICES

- ⊕ easy & cheap
- ⊖ 1/3 won't use
- ⊗ data ownership
- ⊖ offline access?

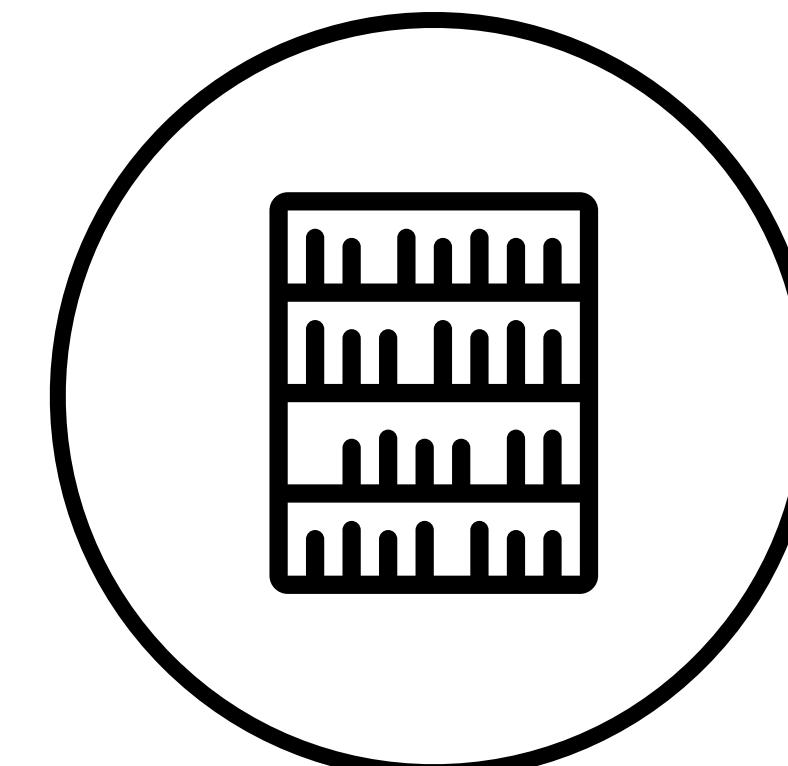


ON-SITE SERVERS

- ⊕ data ownership!
- ⊖ EXPENSIVE
- ⊖ hard
- ⊖ need servers

PICK TWO

ON-SITE SERVERS



OWN YOUR DATA



SECURE

????



EASY

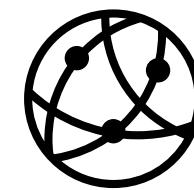
CLOUD SERVICES

PEERDOC TO THE RESCUE

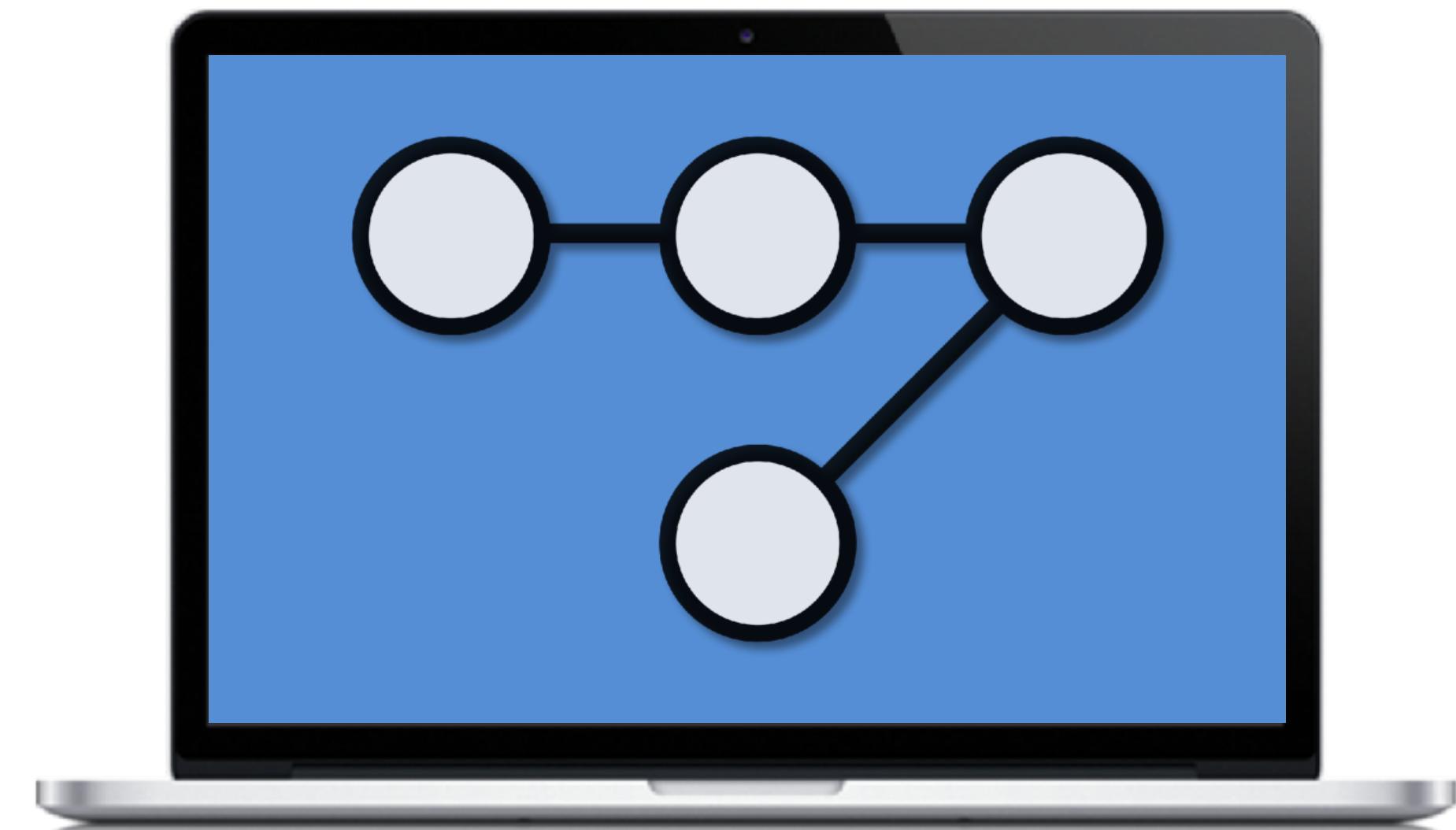
Decentralized: no servers needed!

DIRECT SYNC

Documents are synced between Peerdoc apps, not through servers.

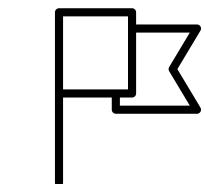
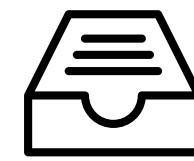


Everybody has a copy of all data by default



SECURE CHAT & FILE SHARING

Secure messaging with file sharing



WORKS WITH EXISTING SOFTWARE

Documents appear as normal files



SECURITY

Data on disk always encrypted. Forces good practices



OPEN SOURCE

Free as in beer!

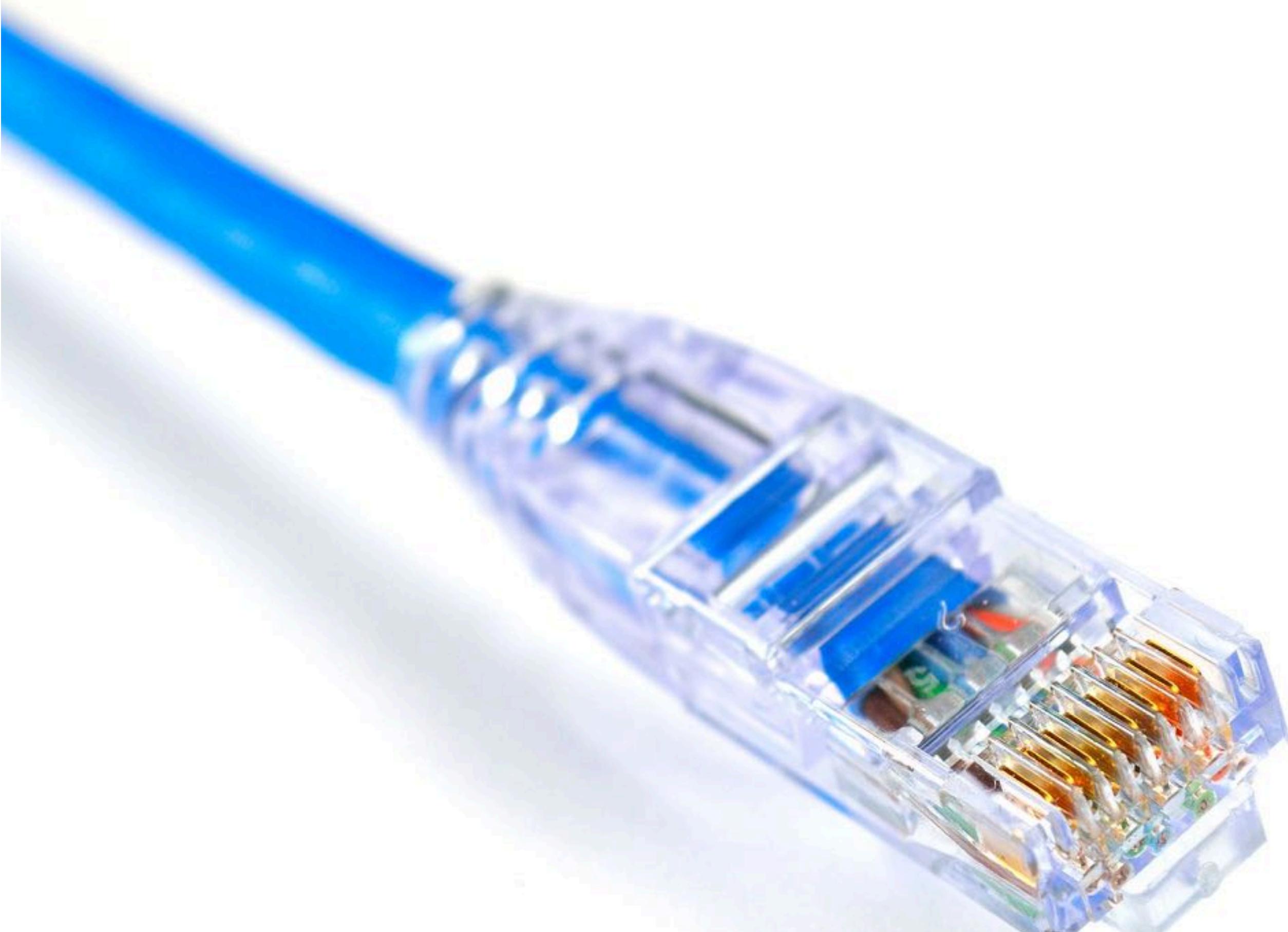


WEB PORTALS

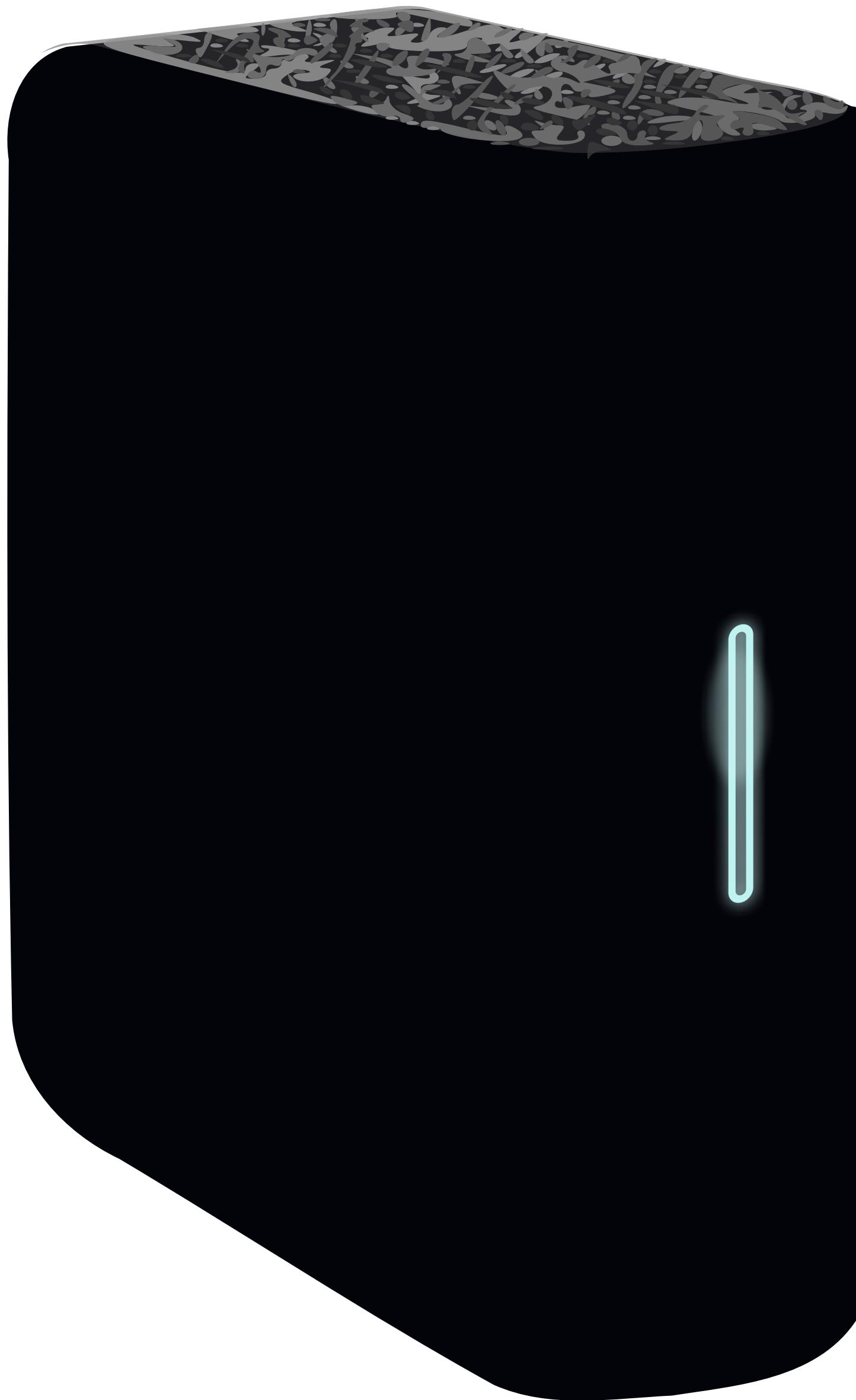
Each Peerdoc app doubles as a web portal for clients.

Virtual data rooms, chat.

BUT!



- ④ Decentralized: you are now the server!
- ④ Web portal etc. only work when anybody from the company is online
- ④ leave desktop on 24/7?
- ④ hard drive space?

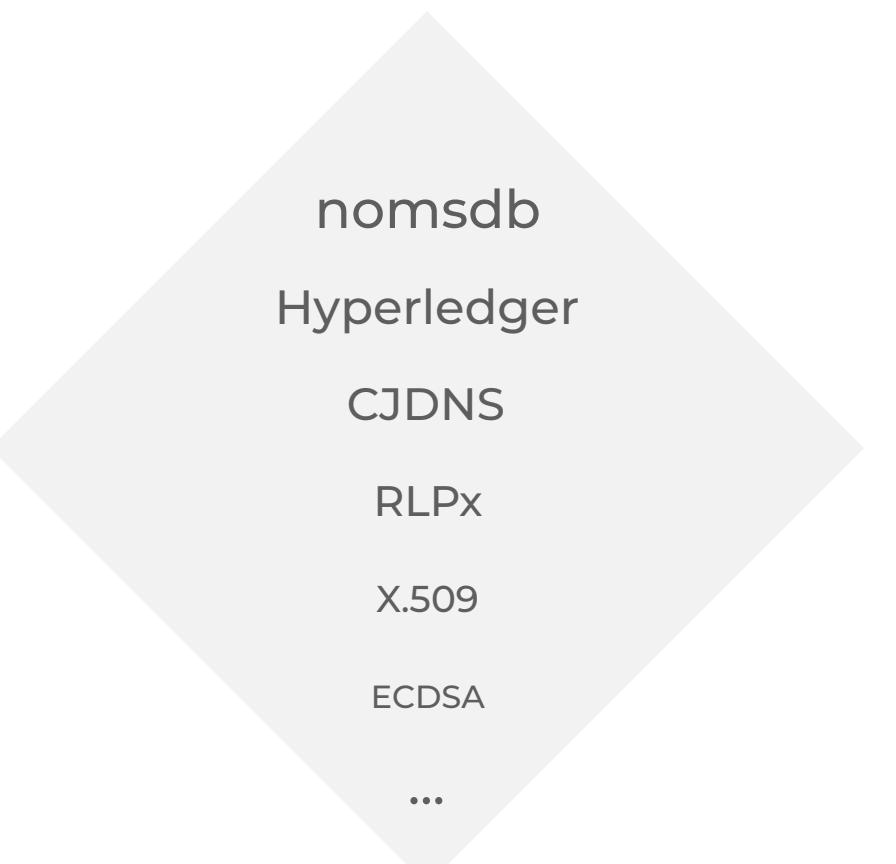


PEERDOC APPLIANCES

- ⟩ Starting from size & price of WiFi box
- ⟩ Easy!
- ⟩ Always online
 - ⟩ Web portal!
- ⟩ Backups!
- ⟩ Runs the same code as the app
 - ⟩ No extra development costs
- ⟩ MVP with off-the-shelf hardware

MVP

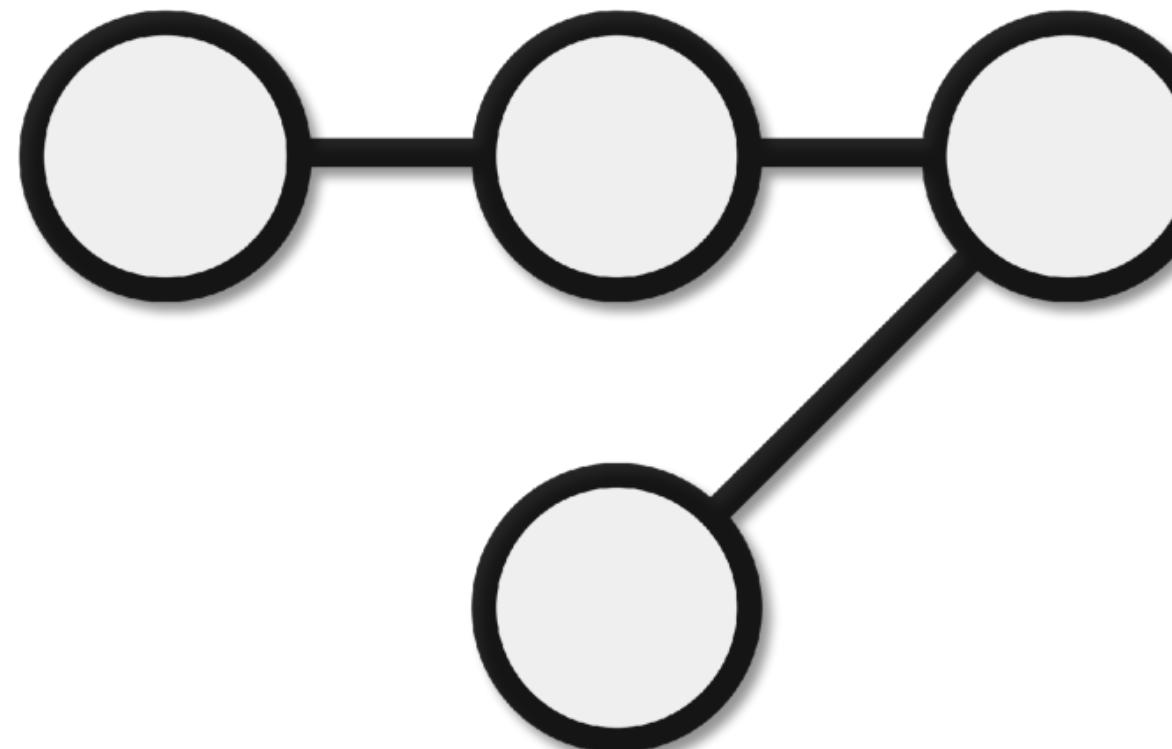
- The software would be the MVP
- ~6-12 months
 - about same for appliance
- easy to extend
 - billing, case management?
- combines existing technologies



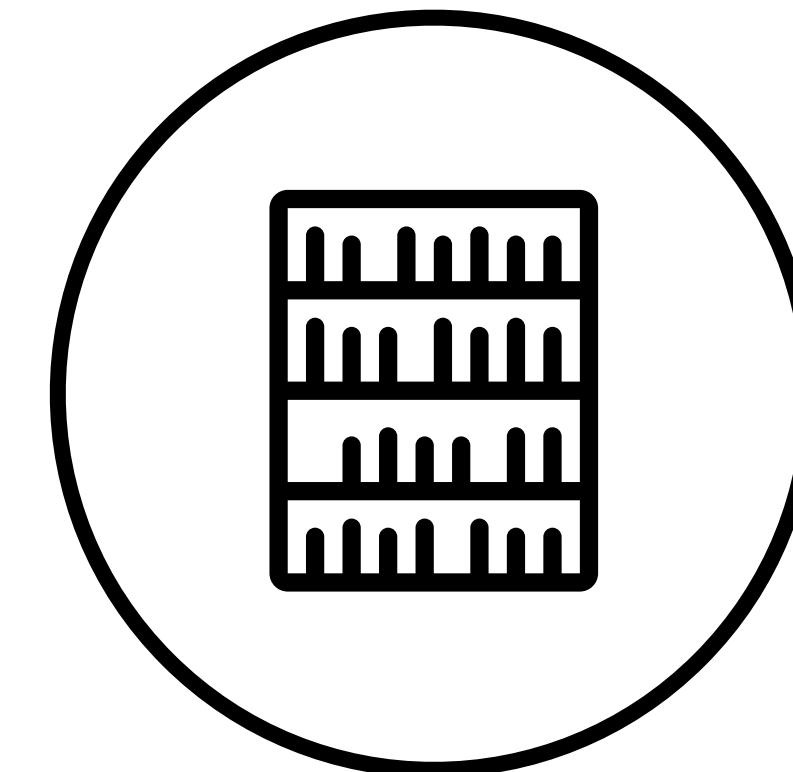
```
6 require 'spec_helper'
7 require 'rspec/rails'
8
9 require 'capybara/rspec'
10 require 'capybara/rails'
11
12 Capybara.javascript_driver = :webkit
13 Category.delete_all; Category.create
14 Shoulda::Matchers.configure do |config|
15   config.integrate do |with|
16     with.test_framework :rspec
17     with.library :rails
18   end
19 end
20
21 # Add additional requires below this line if you need them
22
23 # Requires supporting files within the same directory as this file or,
24 # if further up the tree, look for a shared_require_all.rb file
25 # in spec/support/ and its subdirectories.
26 # in _spec.rb will both be required by your test, as
27 # run twice. It is recommended that you name this
28 # end with _spec.rb. You can name it whatever you like.
29
30 # caution on the following line - it's been known to
31 # cause errors found for 'mongoid'
```

HAVE YOUR CAKE AND EAT
IT TOO

PEERDOC



github.com/ORBAT/Peerdoc



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