File Sharing

Meta Data

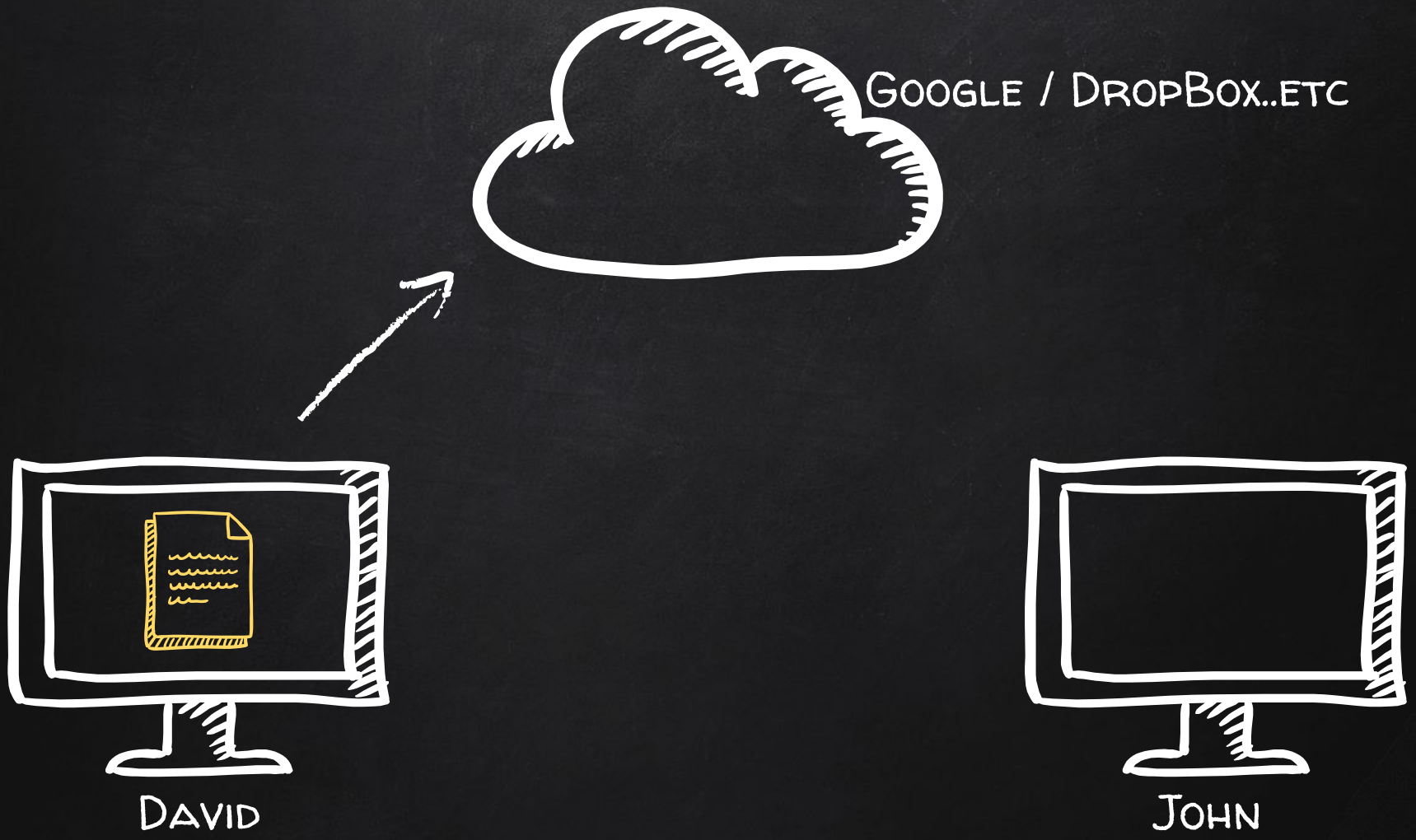
- Each file has metadata.
- Metadata provide info about the file such as:
  - The creator.
  - Program used to create it.
  - Time it was created.
  - And more!

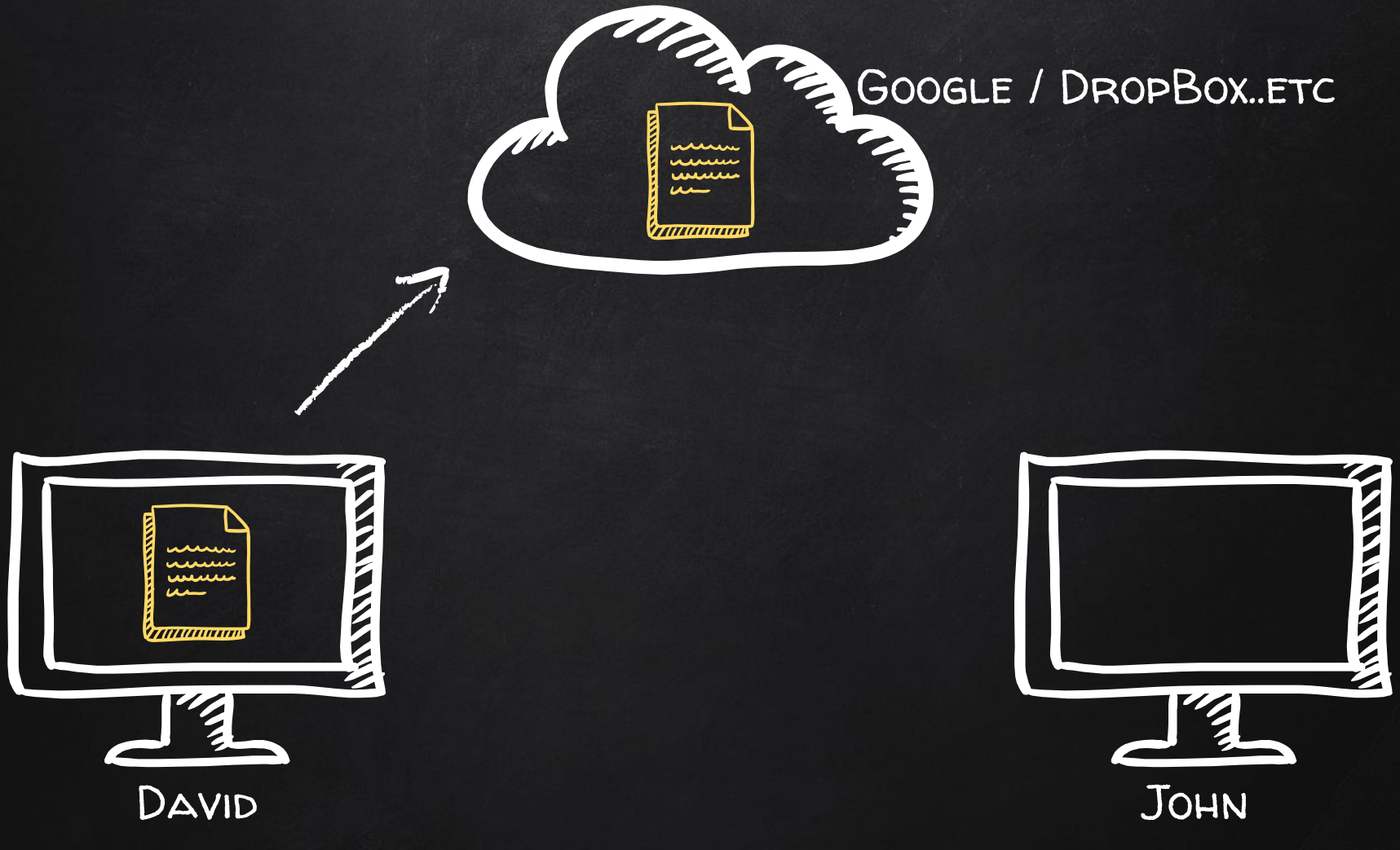
File Sharing

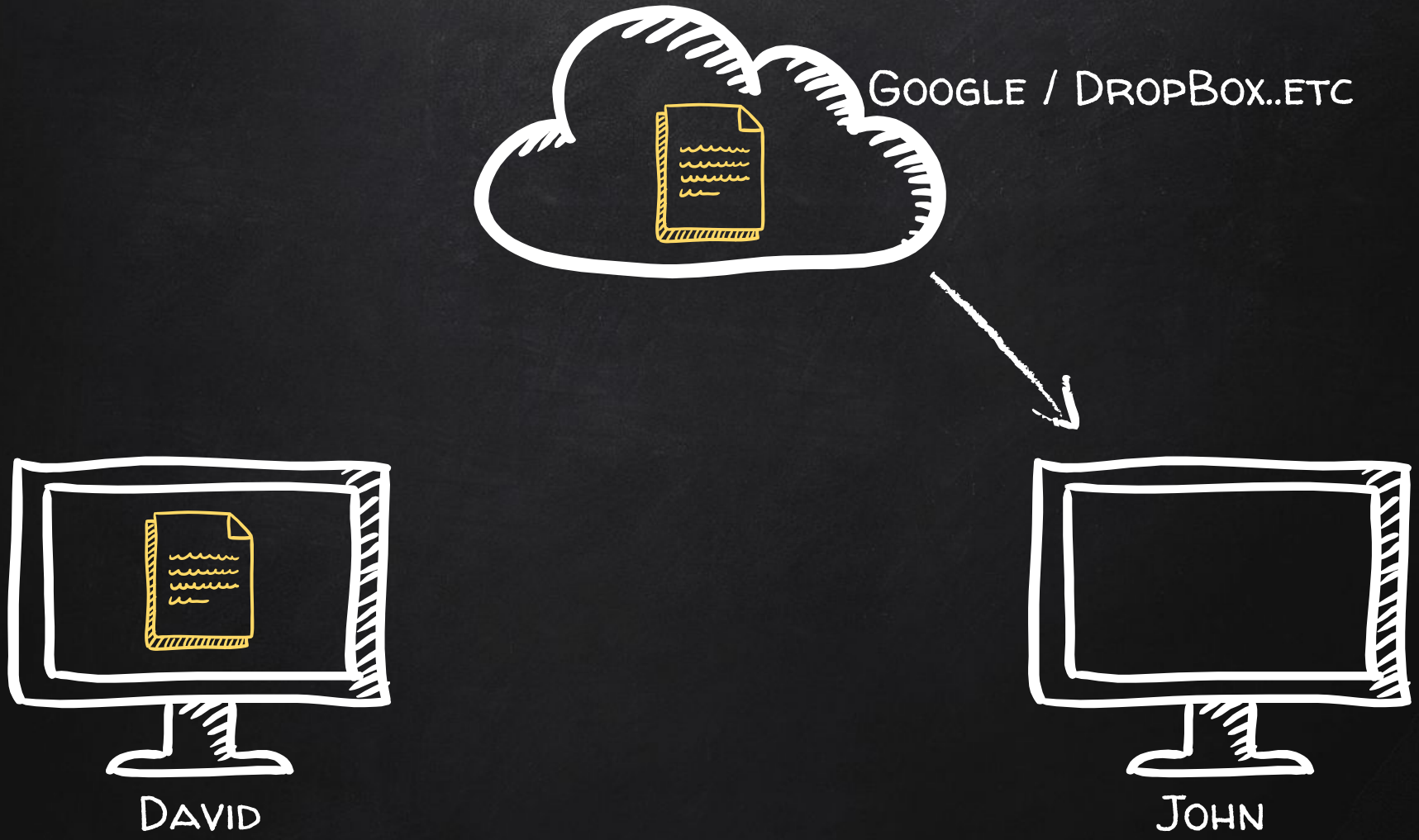
- Google drive, Dropbox icloud.... etc are not private.
- Not secure, log data & track users....etc.
- .....etc

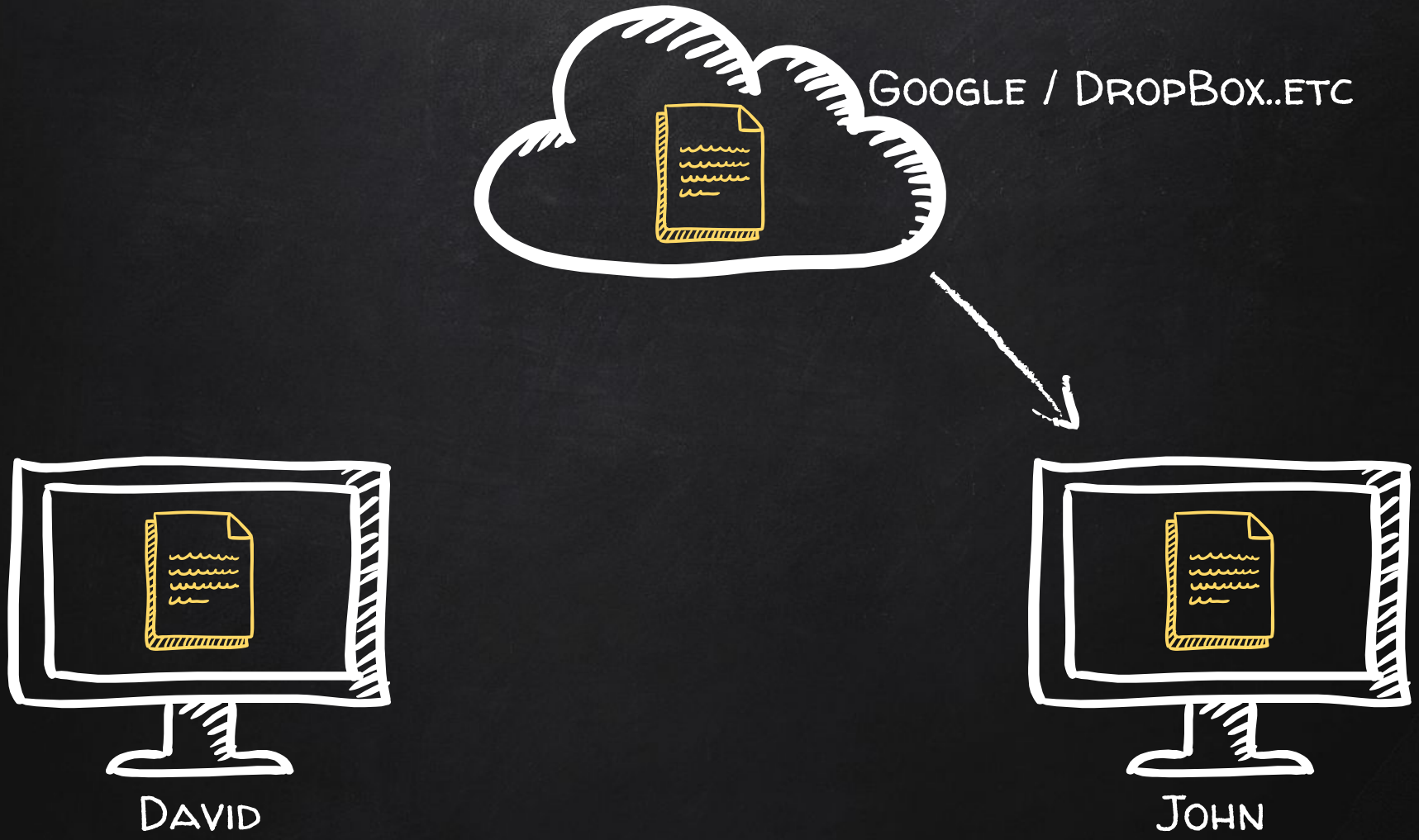
David

John


Google / DropBox..etc
David
John


Google / DropBox..etc
David
John


Google / DropBox..etc
David
John


Google / DropBox..etc
David
John

Google / DropBox..etc

- Server has access to file.
  → Employees?
  → Hackers?
  → Agencies?

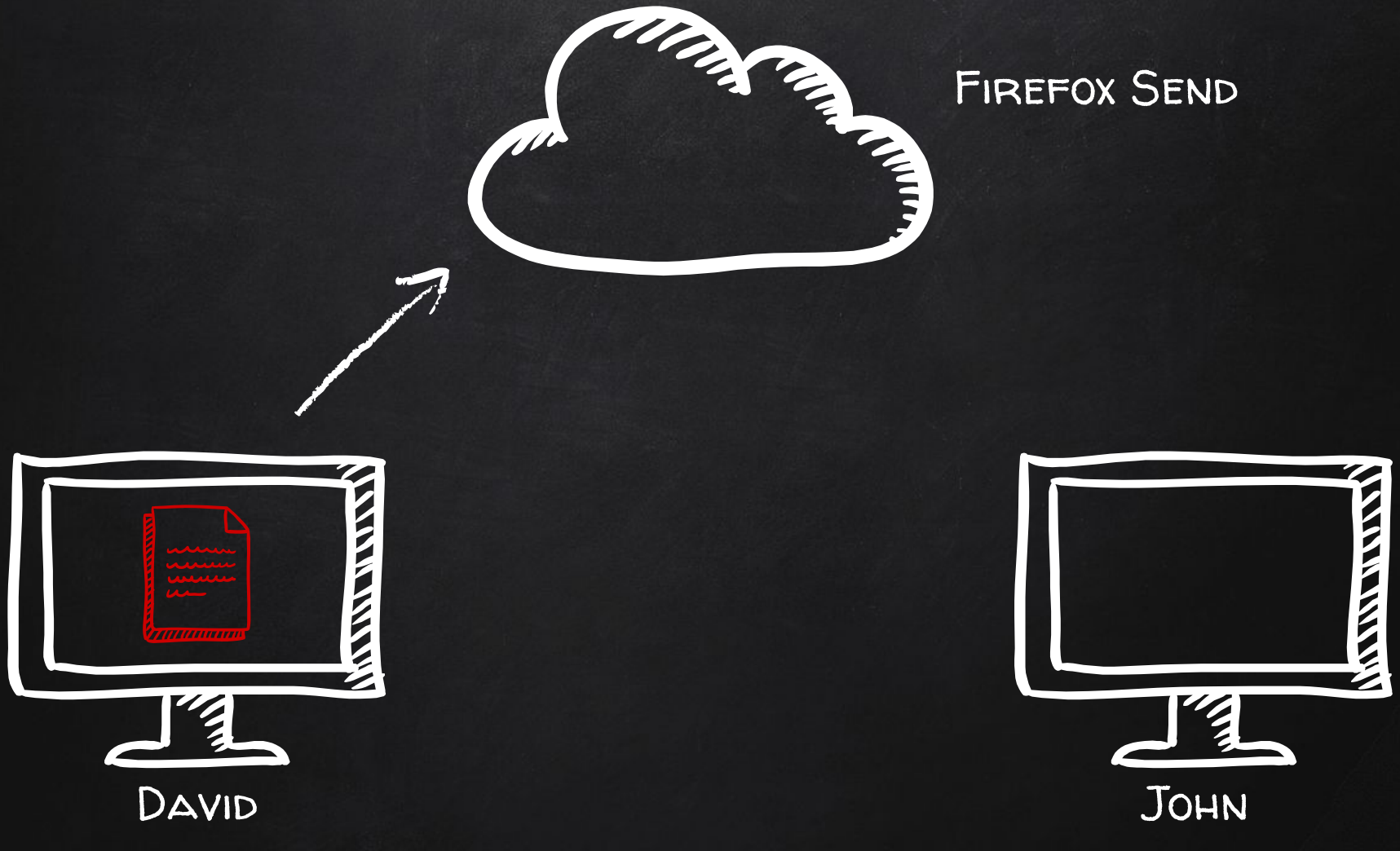
David

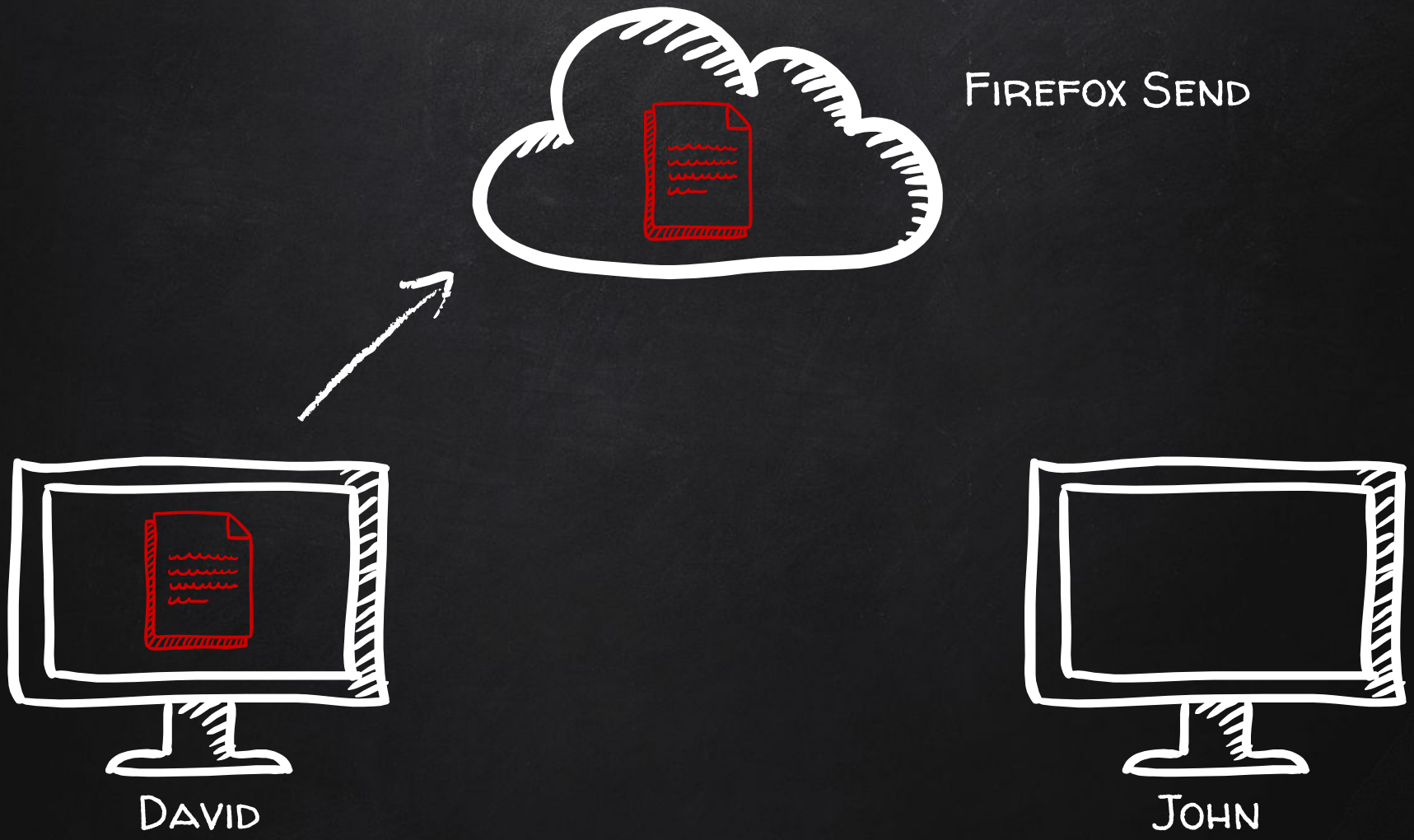
John

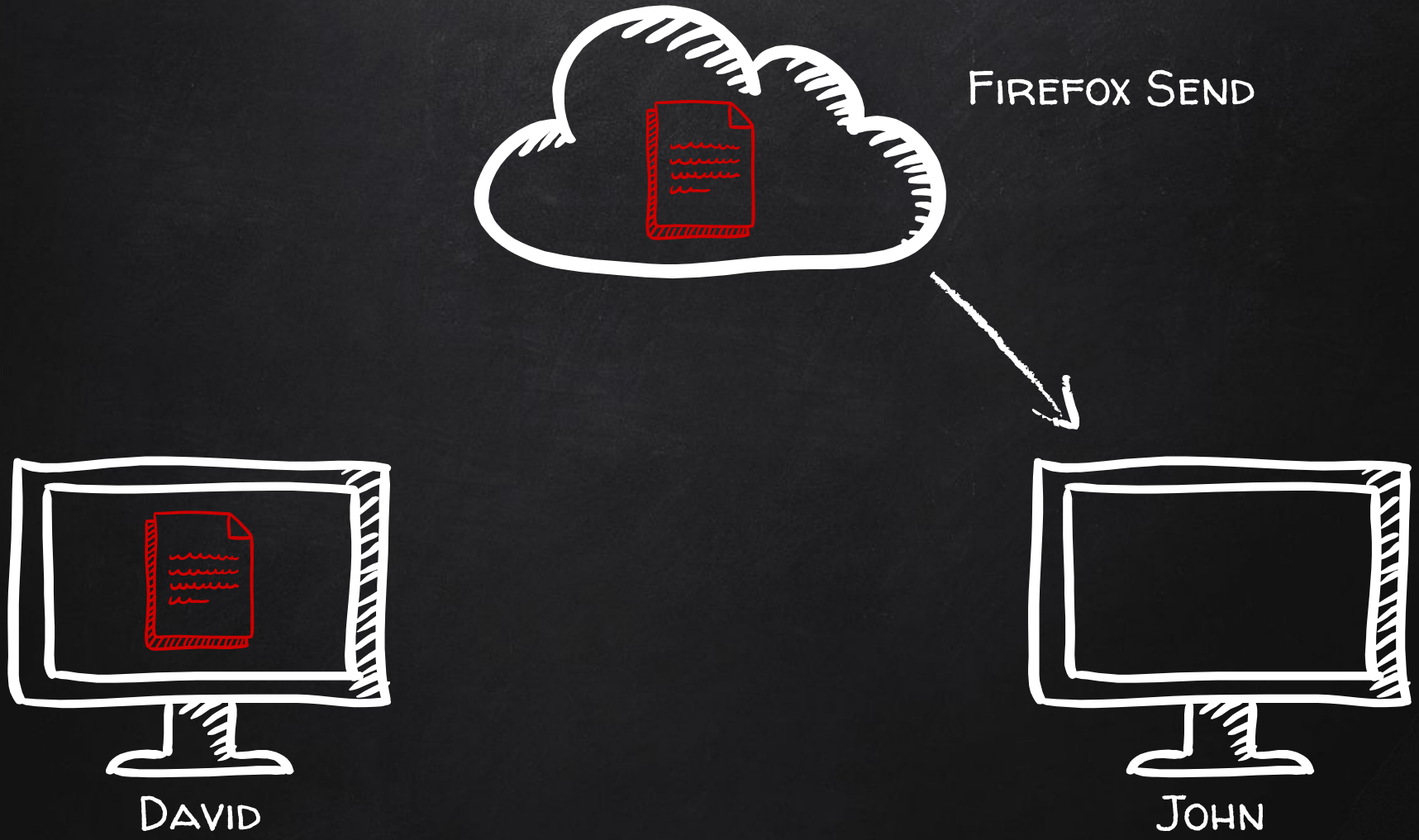
Firefox Send

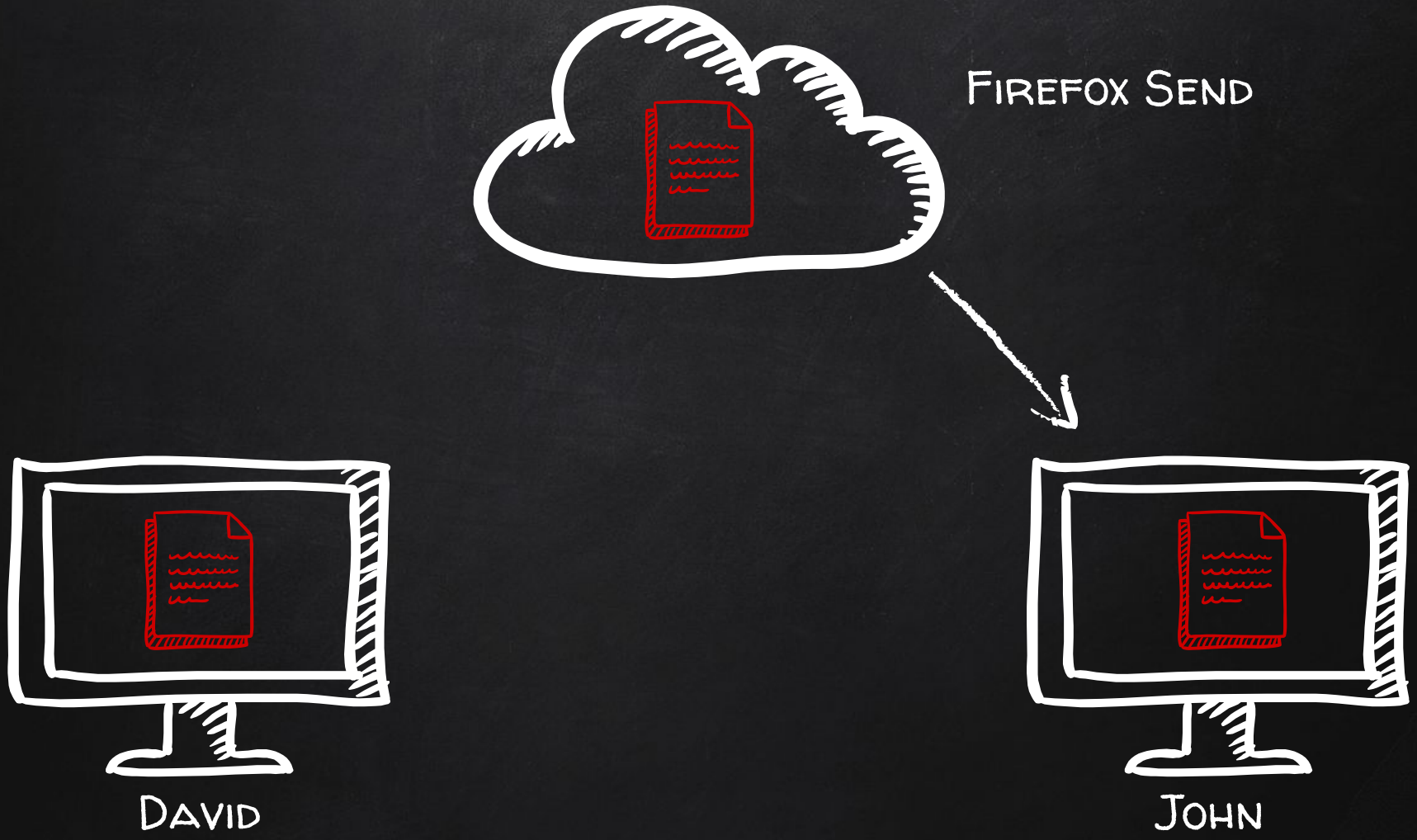
David

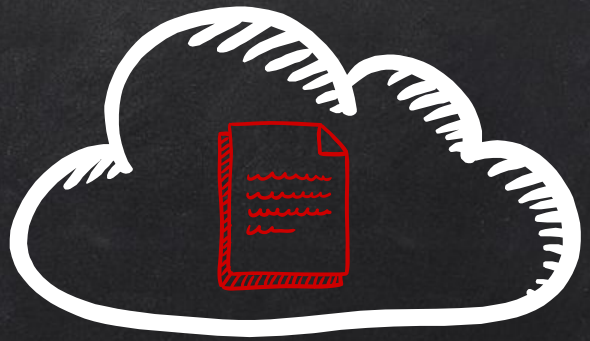
John


Firefox Send
David
John


Firefox Send
David
John


Firefox Send
David
John


Firefox Send
David
John



Firefox Send

- Link contains decryption key.
- Do you trust the server?

  → Employees?

  → Hackers?

  → Agencies?

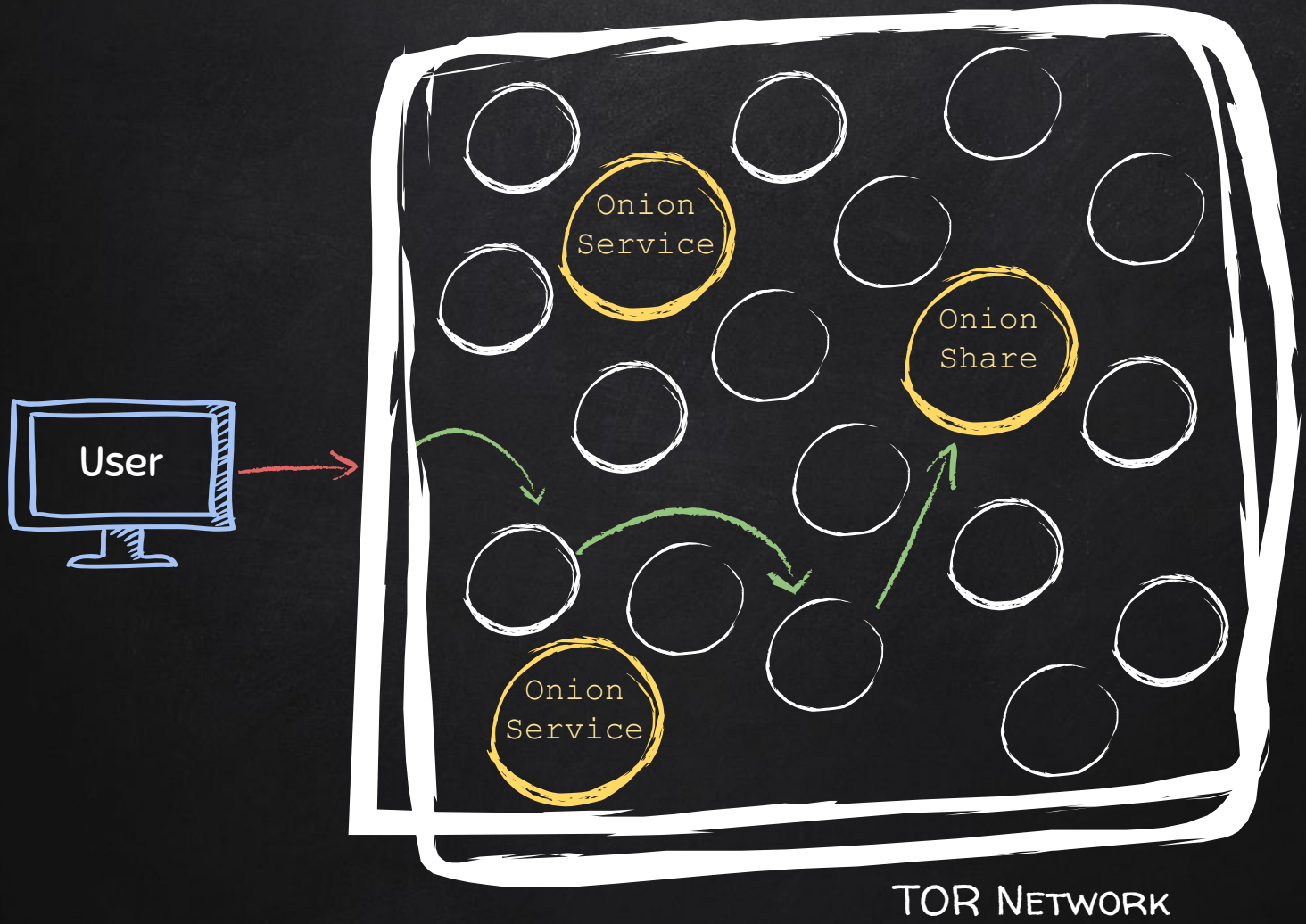
David

John

File Sharing

OnionShare

- Peer-to-peer.
- Files stored locally.
- End-to-end encryption.
- More private.
- Benefits from the TOR Network's anonymity.


User
Onion Service
Onion Share
Onion Service
TOR Network

Handling Files Securely

- Deleted files can be recovered.
- Deleting a file only marks its location as available.

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