

This repository

Search

Pull requests

Issues

Marketplace

Explore

protocol / research

Watch

30

Star

16

Fork

3

<> Code

Issues

7

Pull requests

1

Insights

Decentralised Access Control in CRDTs #8

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**Work in Progress:** This is a work in progress. For comments and suggestions contact us at [research@protocol.ai](mailto:research@protocol.ai).

We as Protocol Labs actively support these areas of research with grants, bounties and direct collaborations. We plan to fund research related to these open problems. Reach out if you want to work on or are working on these problems.

Data laced with permissions: Decentralised Access Control in CRDTs

Context

Eventual consistency

Unlike Strongly Consistent systems, Eventually Consistent (EC) systems don't require synchronization between peers in order to modify data. Changes can be done locally or to a small number of nodes and then asynchronously replicated to others, eventually reaching them. These systems are more resistant to network partitions, and are thus better suited to being used in decentralized environments where connectivity can be low. The drawback is that, in a given point in time, data is not guaranteed to be

Assignees

No one assigned

Labels

open problem statement

Milestone

No milestone

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IPFS Dynamic Data

Lisbon May 2018



# Dynamic Data > Challenges

## Persistence

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Provide an interface for CRDTs built on top of IPFS to easily improve their persistence by replicating to other non-participating nodes.