

Motivation

- PeerDAS was considered to be included in Pectra network upgrade
- It is in a active research and development, running devnets
- Rust familiarity
- Grandine is new consensus client, the team is a very small



PeerDAS Overview

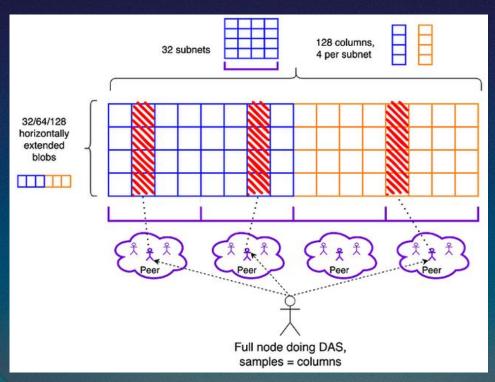
PeerDAS is a networking protocol which allow peers to perform data availability sampling to ensure the blobs are available on the network (hence the name **PeerDAS**), without having to download the whole blobs, just a few chunks each.

Now

6 blobs 6 blob subnets

ref: https://ethresear.ch/t/from-4844-to-danksharding-a-path-to-scaling-ethereum-da/1804

Then



ref: https://ethresear.ch/t/from-4844-to-danksharding-a-path-to-scaling-ethereum-da/1804



The timeline

devnet-2

devnet-3

devnet-4 (upcoming)

- Implementing subnet sampling
- Add MetadataV3

 Reject invalid data column sidecar for zero blobs

- Fix by range req/res issues
- Handling reconstruction
- Rebase peerdas onto electra
- engine_getBlobsV1 (not done yet)
- Several open PRs might be included...

Next Steps

- Continue contributing and maintain the project till the finish line
- Implement engine_getBlobsV1
- Fix bugs, improve performance, clean up codebase
- Keep up with the spec changes



It is not straight forward!

The most challenging part of implementing

Try to understand the concept of data availability sampling, particularly PeerDAS

Getting myself familiar with the structure of codebase, and also other clients as well

Debugging...Interop...





