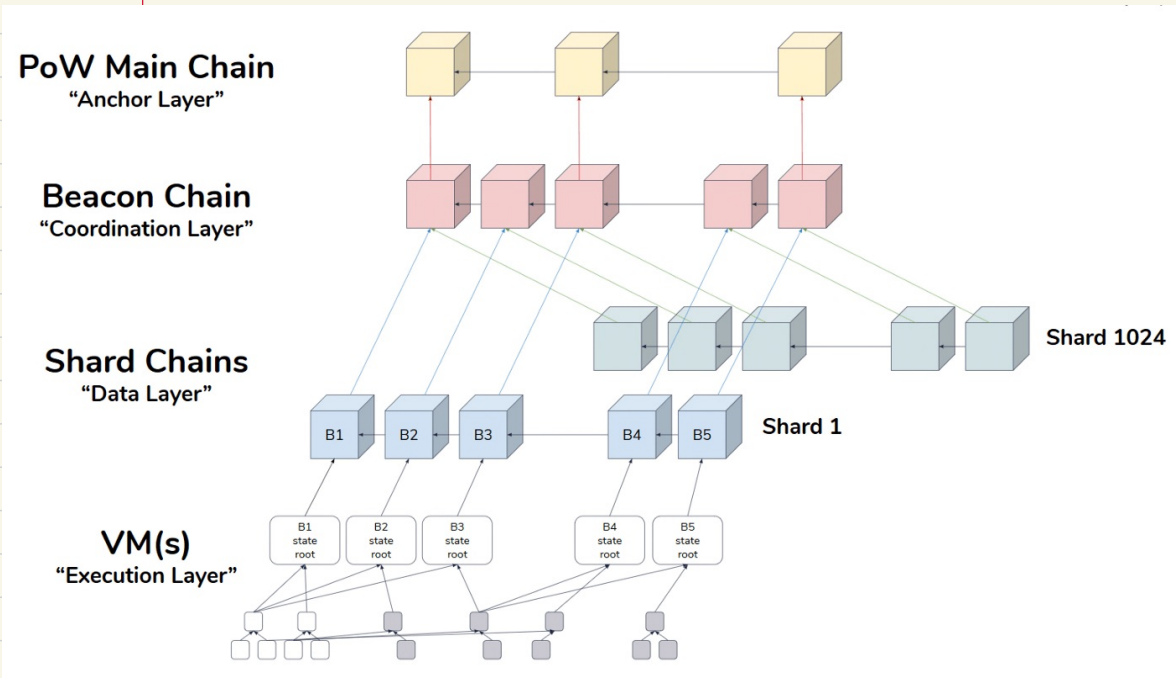
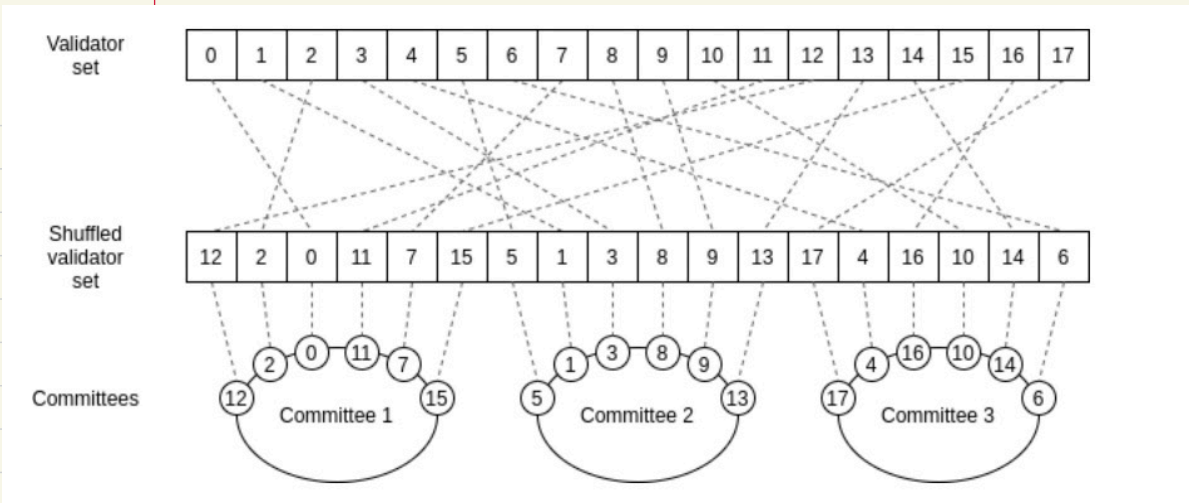
Study of ethereum 2.0 rust



https://hackmd.io/@HWeNw8hNRimMm2m2GH56Cw/sharding_proposal



https://notes.ethereum.org/@vbuterin/SkOzN-ttP

https://notes.ethereum.org/@vbuterin/HJtGHzoIv

there is some issues with the data availability problem.

major challenge, the Data Availability Problem, which is especially hard to solve because of its property of preventing unique fault attribution, is close to a solution. We propose a sound approach for handling state transitions and validations in a sharded blockchain while guarantee- ing data availability. However, this approach has yet to be proven and the entire concept is still bleeding-edge research with open questions.

Is interesting saw that a adaptive state in leader-leaderless hybrid could be possible the descentralizad effect is pretty hard of thinking.
Needs: new polynomial trick
The non-trivial proof of the system
And the implementation in the "limited-code world”0

Impossibility facts:

The existing results on the leader-following consensus problem for linear continuous-time multi-agent systems over jointly connected switching digraphs rely on the assumption that the system matrices do not have eigenvalues with positive real parts.

Check this query with good results in the research:

https://scholar.google.com/scholar?start=20&q=leaderless+and+leader+system&hl=es&as_sdt=0,5&as_ylo=2020