Assessing the urgency of state growth

Bloatnet

@CPerezz

Stateless team

Section 1

Data Driven Decisions

We can't be a stone on the path

We do care about statelessness. And we work everyday to make it happen. And the problems we address are eventually going to need a solution. **BUT**:

- Ethereum has lots of simultaneous priorities:
    - Throughput
    - UX
    - Data availability

- We can't go stale on these because of the "vibes" that state-growth and gas limit increases give us.

30-Day Rolling Average of New On-Chain Storage for Accounts (2018–2025)
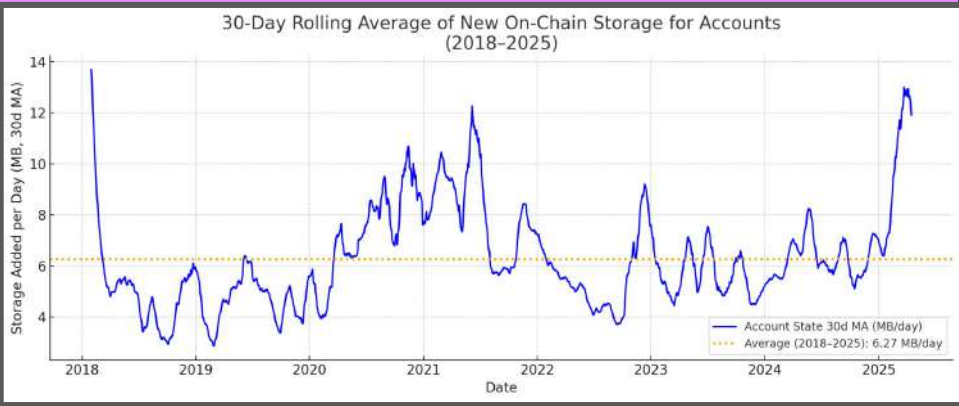
We can't predict the future

State growth has clearly a bounded overall maximum set by the gas limit of the network and the assumption that (we can't do more SSTORE/CREATE.. than gas limit we have available per block).

With gas limit increases, we get an uncertainty, **when and how will state growth <-> gas limit become a problem?**

Section 2

So let's collect the data, no?

Here's the key points for BloatNet

When do we need to prioritize statelessness?

Know when state growth becomes a critical issue. When nodes start really suffering to keep up. And when we can't solve it by optimizing the client code more.

Massive State testnet data

Gather extensive performance data with high gas limits. Try out how new EIP impls will behave with 10x state or do more precise research based on real data.

Clear the path for EIP-7938

Controversial or not, this EIP challenges ethereum to become competitive. We want to support a much easier and clear decision-making when it comes to it.

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SCAN ME

Call for participation. SPAMOOR scenarios!

Currently coding about 10-15 scenarios which combine:

- Bloating
- Attacks/node stressing
- Special interesting scenarios (XEN).

ACKNOWLEDGEMENTS

Kudos to:

NETHERMIND

Thank you!

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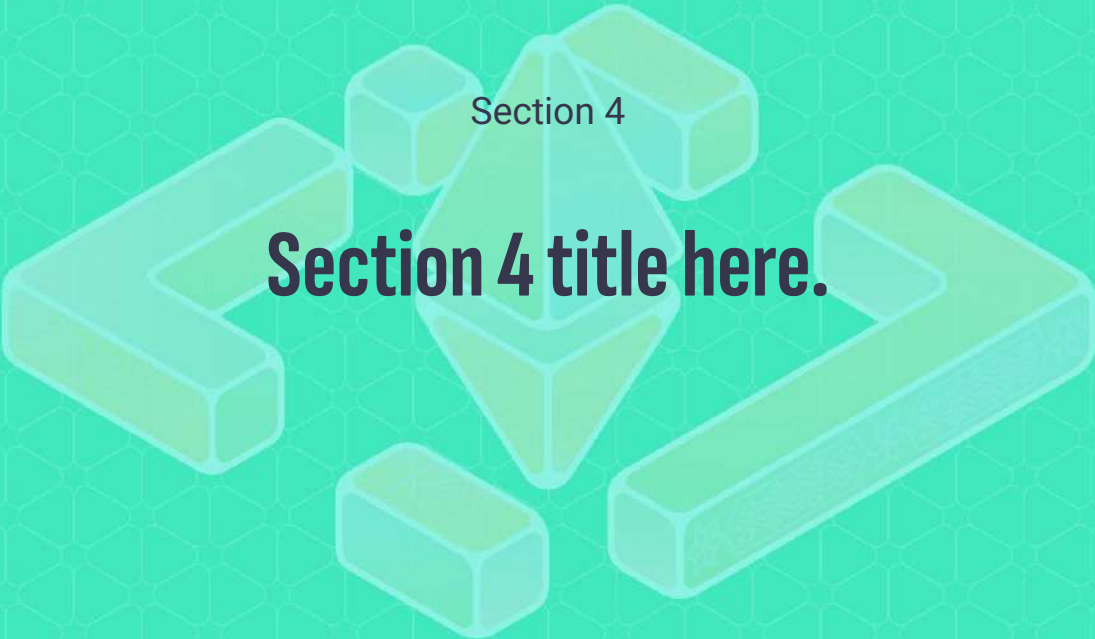   - **Magna**
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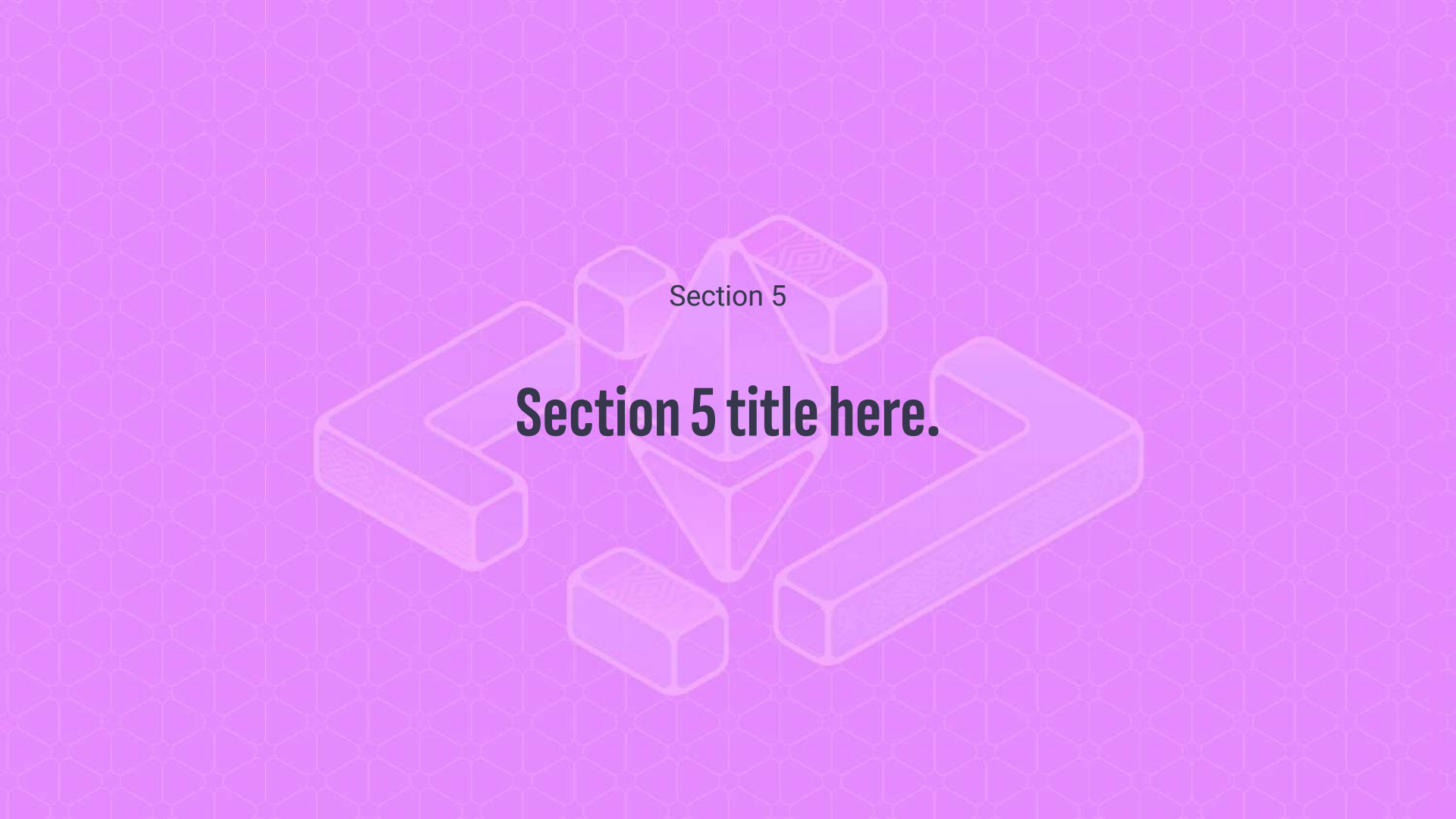
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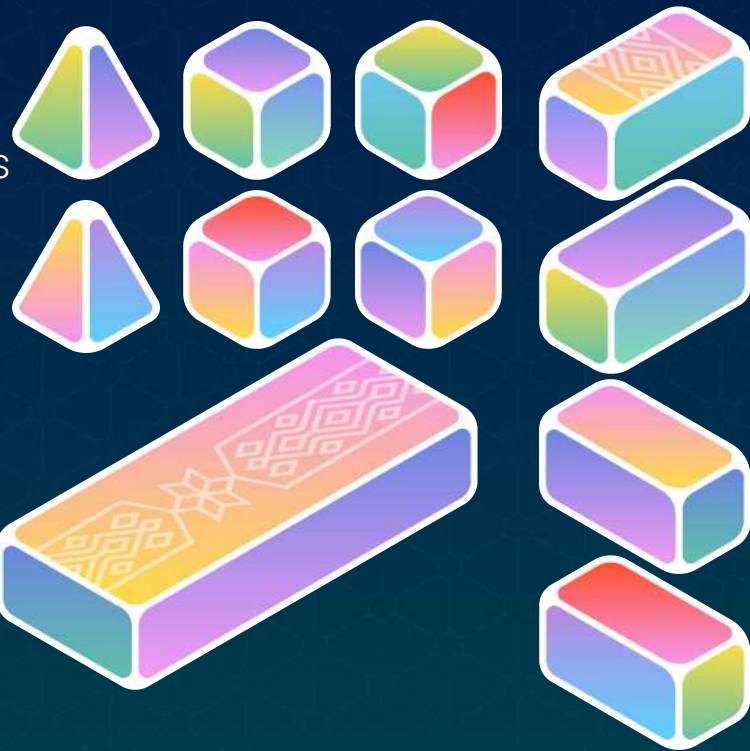
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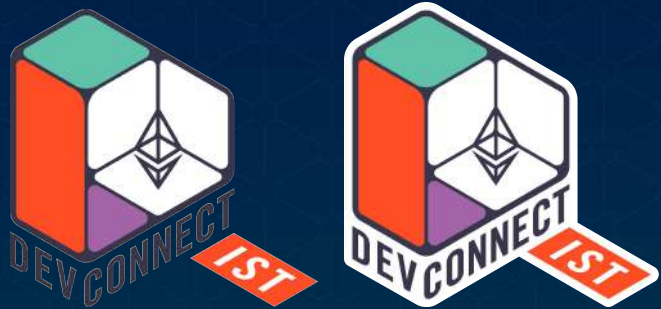
Appendix

Some extra assets

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