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 - Introduction

General Concepts

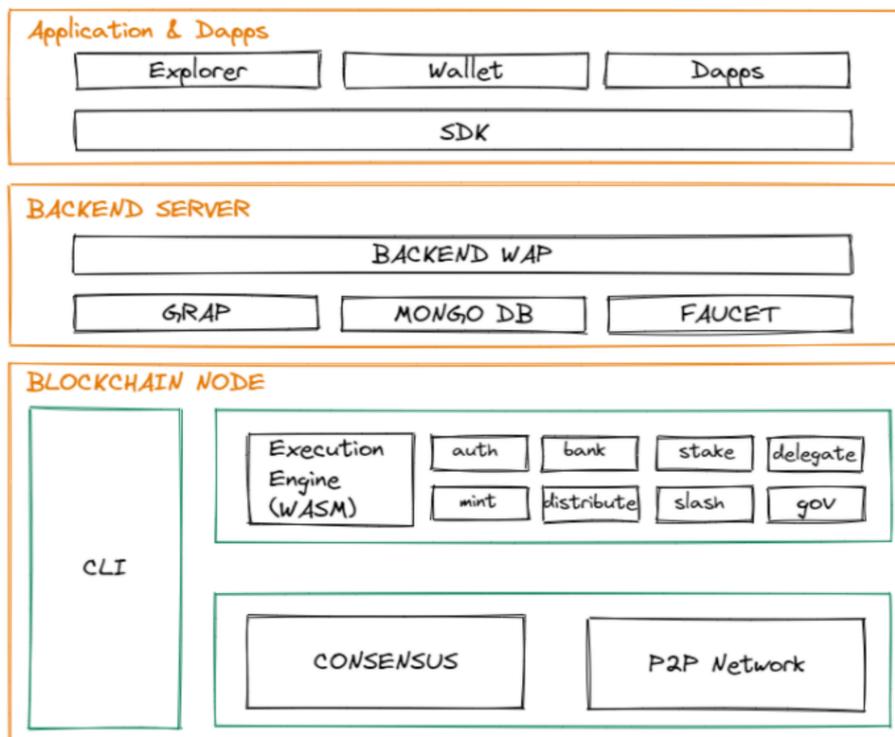
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ATOP Blockchain Architecture

We make ATOP OFP (Open Finance Platform) for B2B and B2C business. ATOP blockchain is an important component of ATOP OFP to provide automatic financial reconciliation and 3T (Trust, Transparency, Traceability). ATOP blockchain consists of 3 layers as following.

- Application Layer. We provide block explorer, mobile wallet, SDK.
- Backend Layer. The request from applications is propagated to the backend server to get the proper response.
- Main-net Node Layer. It consists of P2P (peer-to-peer protocol) and BFT (Byzantine Fault Tolerance) consensus.

In addition, WASM-based execution engine will be available in the near future.



Node Types

Full Node

A full-node is a program that fully validates transactions and blocks of a blockchain. It is distinct from a light-node that only processes block headers and a small subset of transactions. Running a full-node requires more resources than a light-node but is necessary in order to be a validator. In practice, running a full-node only implies running a non-compromised and up-to-date version of the software with low network latency and without downtime.

Validator Node

The ATOP main-net node is based on Cosmos SDK and Tendermint, which relies on a set of validators to secure the network. The role of validators is to run a full-node and participate in consensus by broadcasting votes which contain cryptographic signatures signed by their private keys. Validators commit new blocks to the blockchain and receive revenue in exchange for their work. They must also participate in governance by voting on proposals. Validators are weighted according to their total stake.

Validator Candidate Node

Only top 100 bonded full nodes can become validator nodes, the rest will become candidates. The situation will change as delegation amount changes.

User Types

Validator Operator

A validator operator is the only one who can operate the Validator's informations or participate in governance as the validator.

Delegator

Delegators are ATOP coin holders who cannot, or do not want to run a validator themselves. ATOP coin holders can delegate ATOP to a validator and obtain a part of their revenue in exchange. They can earn as much as the validators and only need to pay some commission.

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