

Voting over Blockchain

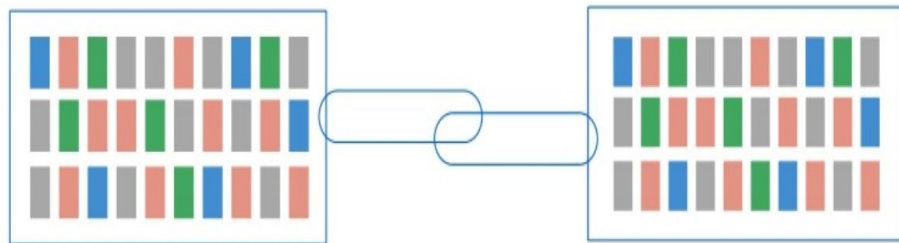
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What is Blockchain

The blockchain technology was initially unconcealed by Satoshi Nakamoto.

Block1--> Block2--> Block3--> Block4--> Block5



String multiple blocks together and you get a Blockchain.

Using blockchain over voting

Today voting play huge role in maintaining fairness to decide the governing body of the society but as there are a lot of attempts made in order to avoid the fair voting . Our motivation is to use the blockchain technology in order to keep the people vote data safe and secure.

Issues with blockchain voting

However, online voting and e-democracy platforms are subject to certain issues that undermine the definitive nature and certainty of the process:

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- Who controls the online platform?
- How can I be certain that the votes are counted correctly?
- Who ensures the system availability for the duration of the election?
- How can votes be verified, even after the voting is finished?

Artitecture

It mainly comprised of two kind of entities :

- **EVM** : It will ask the voter its id , password and then its will ask the voter to whom it want to cast vote.
- **MINER** : This entity's job is to mine the blocks requested by the evm entity machine. they mine the block upon the factor of difficulty of the blockchain.

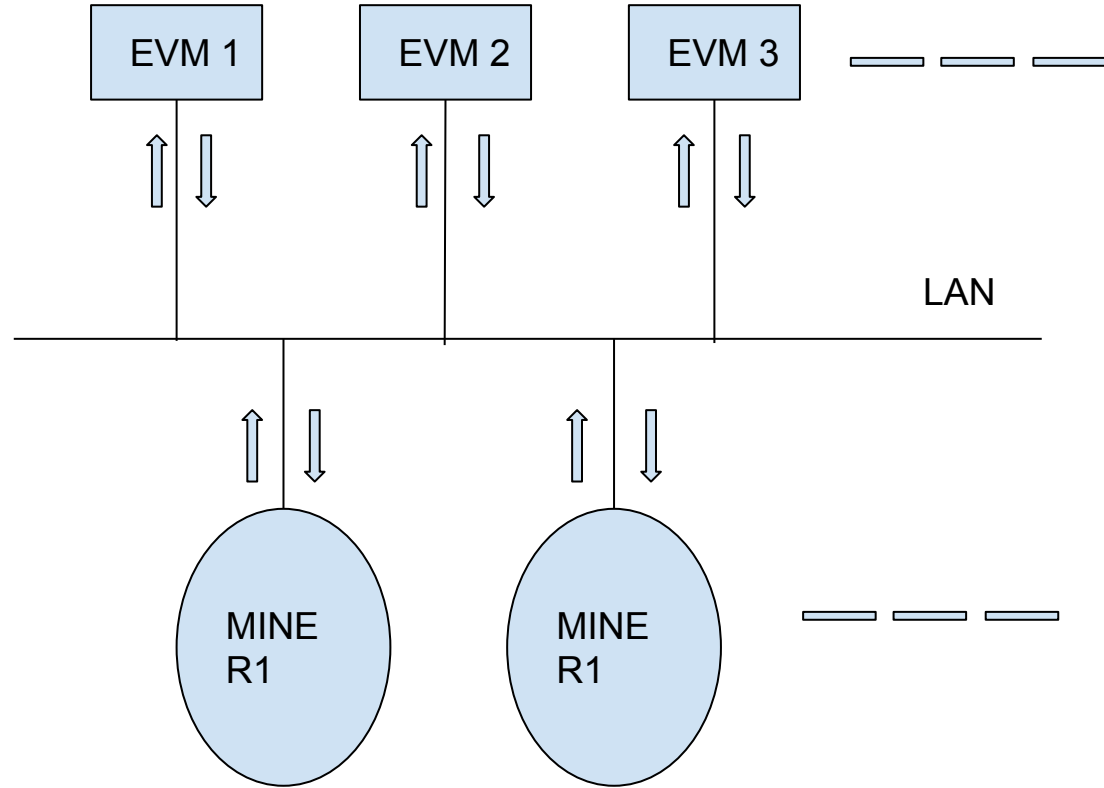


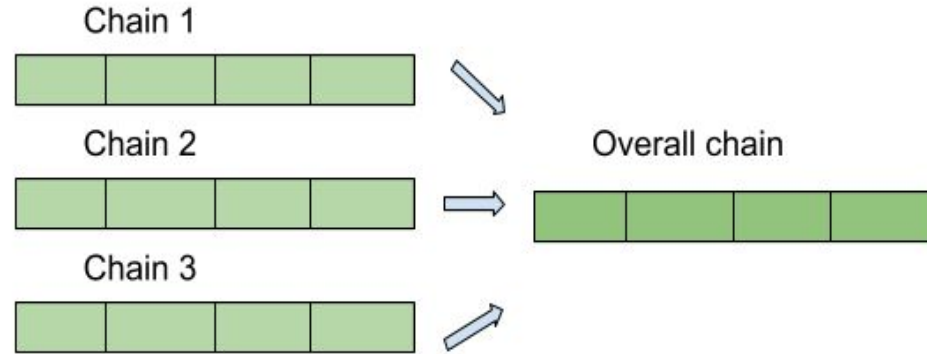
Fig 1. The diagram to show the comprehensive connection

Merging distributed data

Since we are working on multiple nodes, it may be possible that some nodes may have larger or smaller length of chain

It becomes necessary that we must ensure a valid and universal chain is available throughout the network.

Consensus algorithm



Blockchain technology, best known for supporting Bitcoin and other cryptocurrencies, is designed to be secure, transparent, and decentralized—the same characteristics that make it attractive to businesses for other uses such as managing their supply chain, voting, smart contracts etc.

Thanks!

