



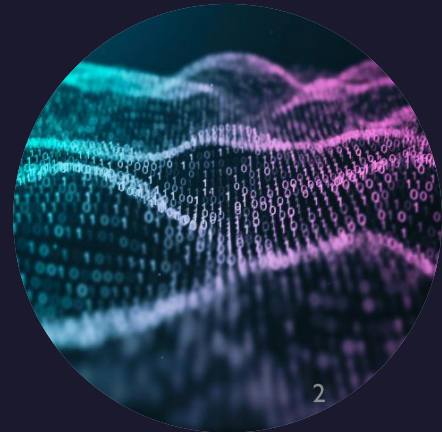
Cosmos Blockchain

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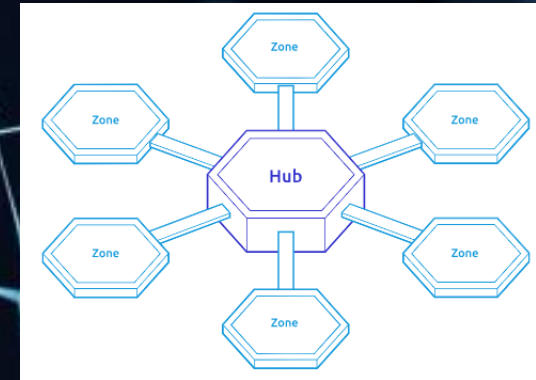
What is Cosmos?

- Cosmos is a decentralized network of independent parallel blockchains that was built aiming to scale and interconnect the blockchain ecosystem which would allow them to work and communicate together.
- This allows the blockchain ecosystem to exchange data between different blockchains using the Inter-Blockchain Communication Protocol (IBC Protocol) and It works like the internet.
- Cosmos is also called “The Internet of Blockchain” as it is comparable to what the internet is, which is to easily allow computers to connect and exchange data with one another through the network and world wide web.
- This technology is not limited to blockchain but also applicable to Applications and other services like finance, privacy, smart contracts, games and more.
- Cosmos was released in March 2019 and it is still in its infancy stage.
As time goes, we will see how this technology affects the blockchain ecosystem just like how the internet was adopted.

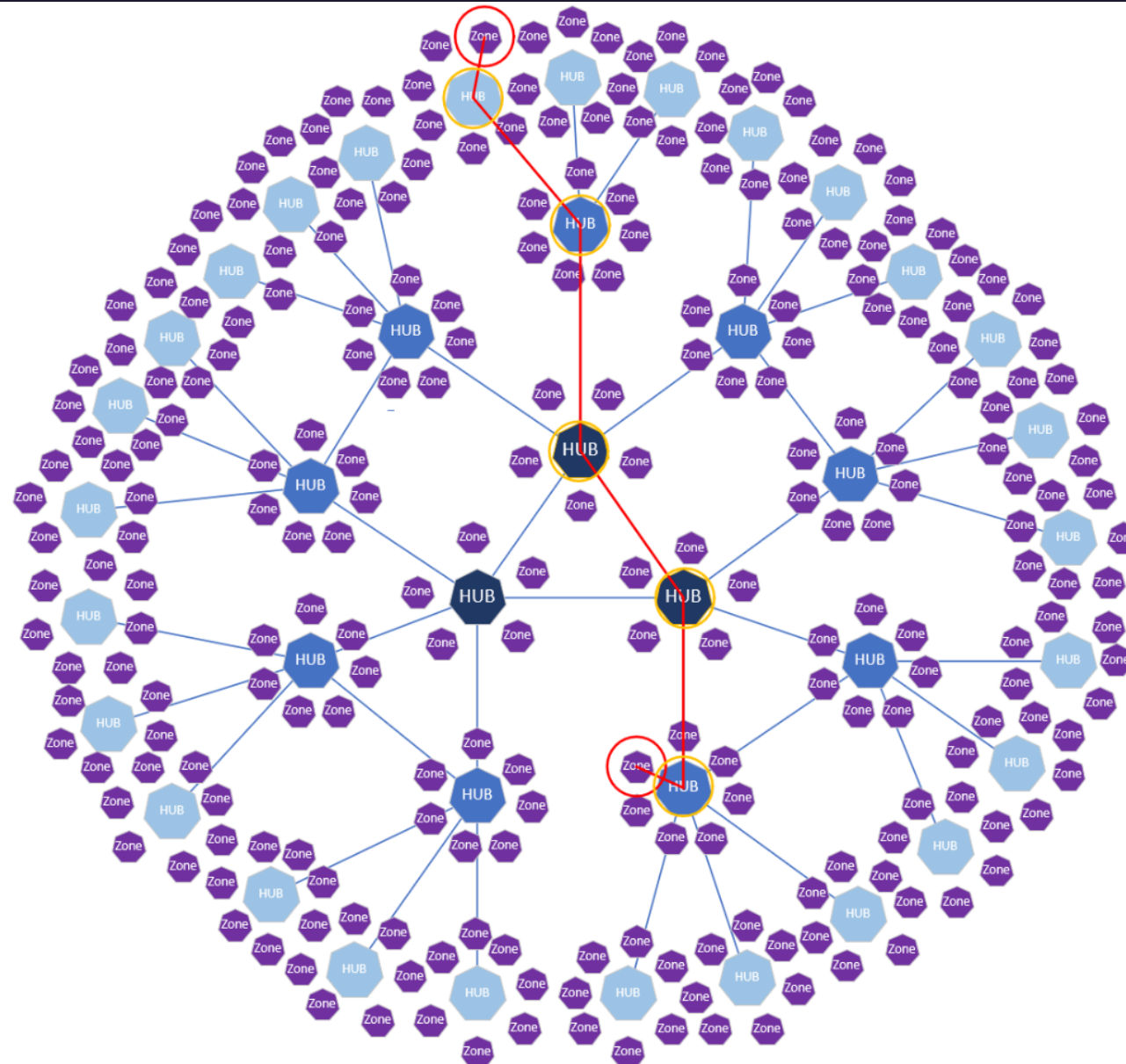


How does Cosmos work?

- Cosmos uses a “Proof of Stake” concept in which the users stake their cryptocurrency coins called Atoms. Atoms run the blockchain which allows users to mine or validate block transactions. This is somewhat opposite to what Bitcoin uses. As Bitcoin uses a “Proof of Work” concept in which we use physical hardware like CPU’s and GPUs to compute and validate the block transactions which waste a lot of energy and resources. Cosmos does not use physical hardware but rather the staked atoms are put to work and is more energy efficient and environmentally friendly.
- Cosmos uses “Hubs” and “Zones” to allow other Blockchains to be connected to the network. The Hub is specially designed to be connected to the Zones and together, it can automatically access the data in that blockchain and allows sending and receiving data from one blockchain to another. Hubs can also be connected to one another to minimize the levels in the zone which would take longer for data to be sent and received.
- In relation to Discrete Structure, this process is very similar to a Tree where the Hub is the root of the tree and the Zones are the children of the root, but the Hubs can be connected to one another allowing access to different zones which is connected throughout the ecosystem.
- Cosmos provides a Software Development Kit which allows users to use a generalized framework that makes the process of building a secure blockchain and other applications easier. This is something for people who want to get into blockchain technology with minimal knowledge and starting from the ground up.



Visual Image of how Cosmos interconnects the blockchain ecosystem



Thank You!

