



Cosmos Workshop

NFT Auction

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Overview

- Tendermint & Cosmos-SDK Intro
- Tutorial Walkthrough





Intro





What is Tendermint?

- A BFT consensus algorithm
- A weight based protocol
 - Can be used for PoA, PoS or PoW (with minor changes)
- Scalable
- Energy efficient
- Instant finality
- Support state machines in any language

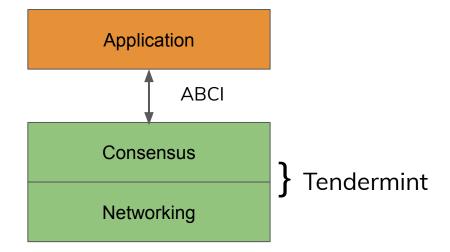






Your State Machine

- Build an application in any language
- Build your own incentive and economic design
- Create your own rules







ABCI Ecosystem

























What is the Cosmos-SDK?

Ruby on Rails for Blockchains - batteries included







Core Module: Tendermint

- Mature BFT Consensus &
 Networking Protocol
- Formally Proven
- Instant Confirmation







Core Modules

- Auth account based model
- Bank transfers between accounts
- Distribution handles distribution of fees and rewards
- Gov onchain governance, community pool
- Slashing slashing for misbehaving validators
- Staking delegated Proof of stake
- Supply keep track of the total supply of tokens in the app
- IBC Inter blockchain Communication

60+ modules within the community...





Interoperability (IBC)

- IBC Spec is working towards v1
- Implementation is nearing completion

IBC will be baked into the cosmos-sdk and will enable communication with cosmos based chains in the near term, substrate based chains in the medium term and other enterprise/public based chains.





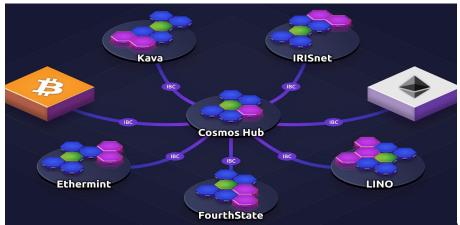


What does this mean for you?

- You can build a blockchain in less than a month (depending on the use case)
- You get a proven and production grade consensus and networking out of the box (Tendermint Core)

Interoperability is built into the system, you can communicate

to independant and siloed chains



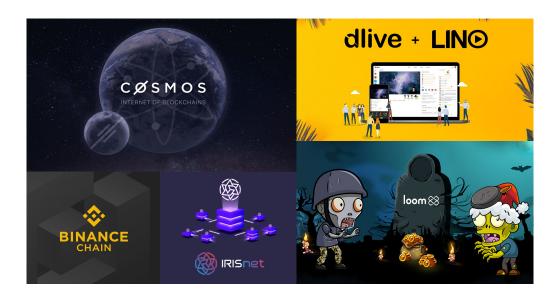




Ecosystem

Tendermint:

- Kadena
- Crypto.com
- Oasis labs
- Nym
- Hyperledger Burrow
- BigChainDB
- Cosmos
- Many more..



Cosmos-SDK:

- Binance
 - Aragon
- Kava
- e-Money
- lov
- Playlist
- Regen
- Sentinel
- Terra
- Trustory
- Shapeshift
- Many more.



Tutorial walkthrough

Now we will move over to an IDE