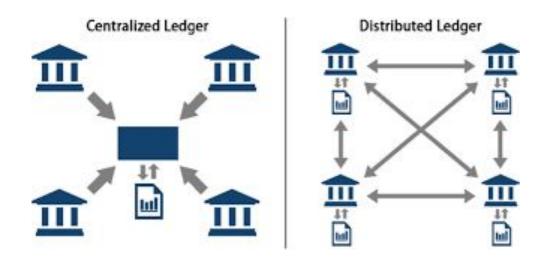
What is Blockchain

Agenda

- 1. Problem (with traditional transactions)
- 2. What is Blockchain
- 3. Classification
- 4. Blockchain architecture
- 5. Basic Knowledge
- 6. Q&A

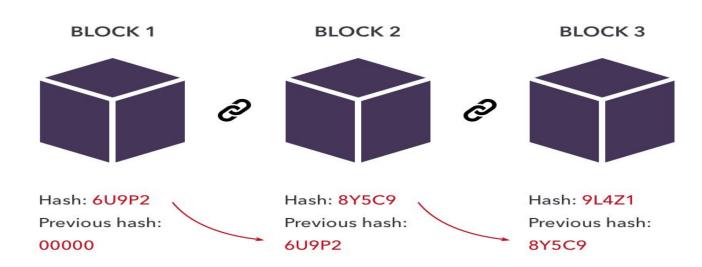
1. Problems

- In traditional approach, we need to trust a third party with following rules. Sometime, the rules are broken

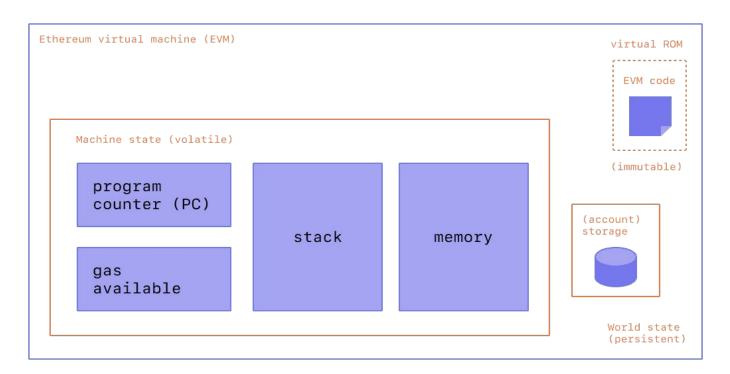


2. What is Blockchain

- Chain of blocks. Block contains information about transactions
- Virtual Machine: run Smart Contract
- Smart contract: A computer's program in Blockchain.



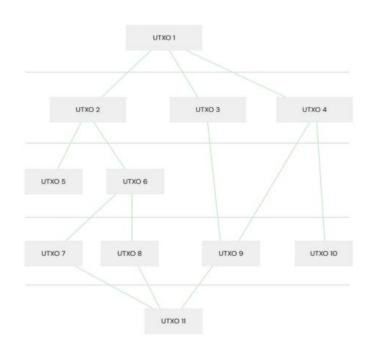
Virtual Machine



3. Classification

- Account Model (Each account is indicated private key and public key)
 - o UTXO
 - Account Base
- Network type
 - Public blockchain
 - Private Blockchain
 - Hybrid Blockchain
 - Side chain

UTXO vs Account-Based Model

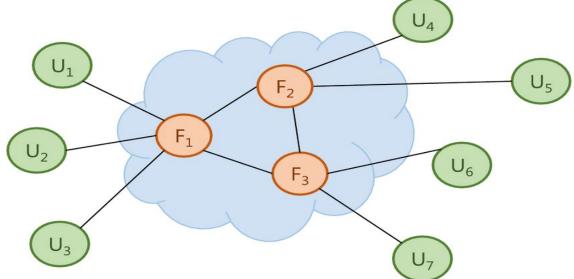


State 1	Account 1	Balance 1
State 2	Account 1	Balance 1
	Account 2	Balance 2
	Account 3	Balance 3
State X	Account 1	Balance 1
	Account 2	Balance 2
	Account 3	Balance 3
	<u> </u>	-
	AccountN	BalanceN

4 Blockchain architecture

- Fullnode: contain blockchain data, virtual machine
- Miner node, Validator Node

Client: can be BE and FE, wallet. Clients interact with Blockchain by using Rest API or any RPC.



Wallet

- Account: private key and public key
- Wallet: manage accounts
- Functions:
 - Send transactions
 - Query balance data

5 Basic Knowledge

- Programming
 - Understanding how to write smart contract or interact with blockchain
 - Design Blockchain protocols
- Cryptography
 - Public-key cryptography
 - Private-key cryptography

Q&A