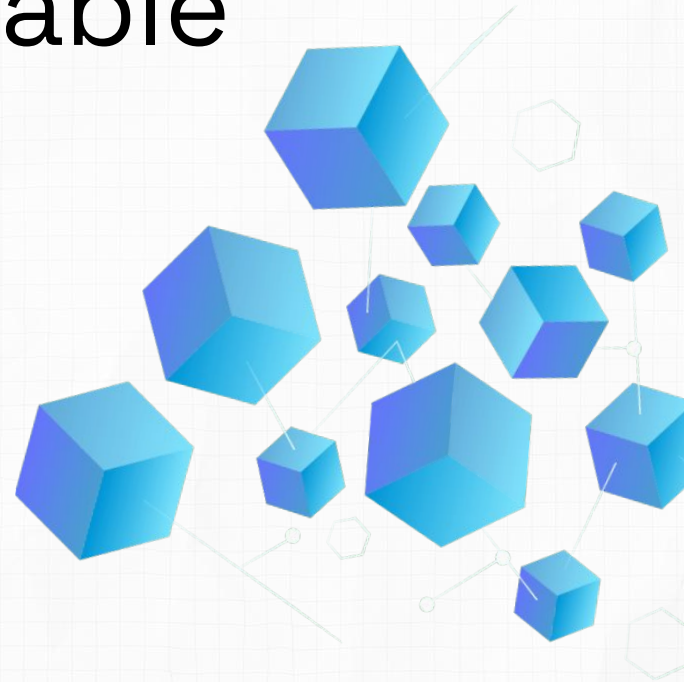


Architecture of Scalable Blockchain Applications



Teranode

Edge-Edge Electronic Value System

- Terabyte size blocks
- Economy of Scale
- 1M tx/sec
- Unbounded Scalability
on the BSV Blockchain

- Node
- Specialised Node
- Overlay Node
- SPV Wallet

£

Only possible with
one blockchain

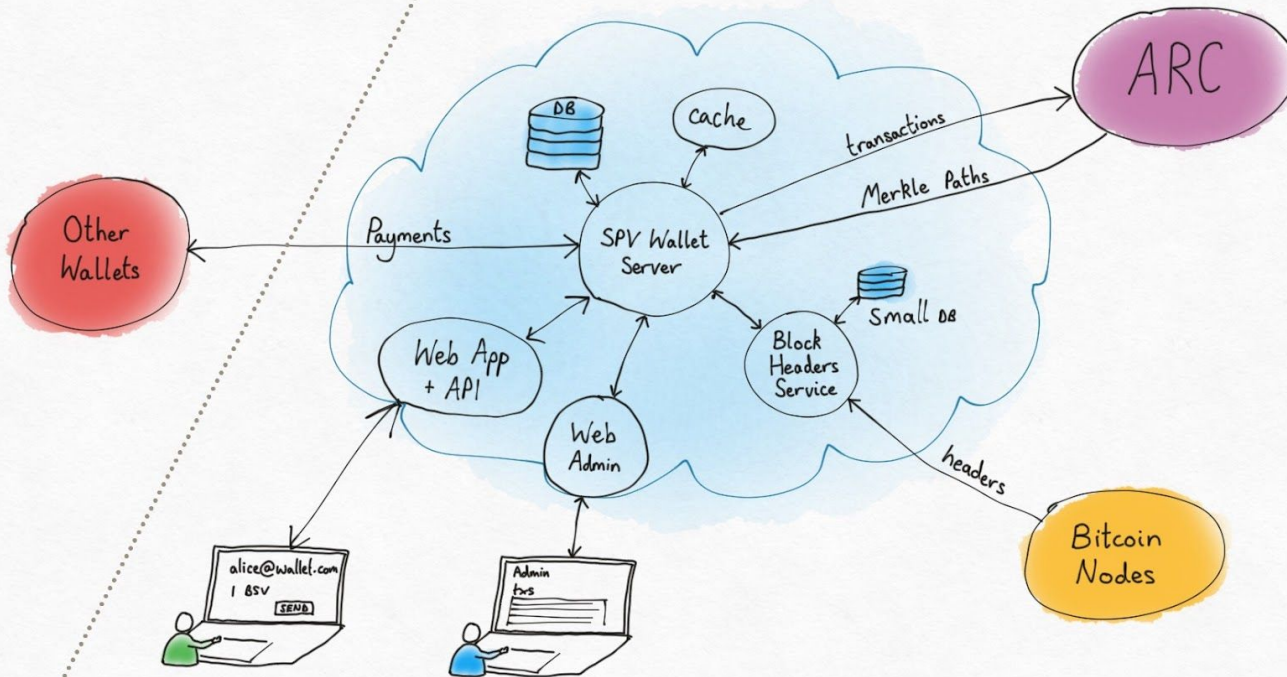


- SPV wallets
- Central bank overlay nodes
- Specialized nodes
- Node network

SPV Wallets

Simplified Payment Verification (SPV)

- Wallet stores all necessary block headers
- Around 60MB as of now
- + 4MB per year
- 80 bytes with each block mined
(regardless of the size of that block).





Customer
Alice



Alice orders coffee

Bob provides Invoice



Alice hands over payment & Merkle paths

Bob calculates Merkle proof(s)



Bob gives Alice her coffee



Merchant
Bob

SPV

simplified payment
verification

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Timechain Overlay Network

Shared Ledger Consortiums
Interoperable Ledgers

Private Subledgers

Private ledgers are defined as ring-fenced sections of the public ledger, enabling one party to exclusively control and manage all resources (Satoshis) within that section of the public blockchain.

Architecting blockchain-enabled apps

- Data Integrity System
- Evidentiary System = Proof of “_”
- Stateless ledger

Data Integrity System

- Central Timechain
- Evidentiary System
- Proof of “_”
- Stateless ledger

Data Integrity Solutions

1. Certificates
2. Credentials
3. Identity
4. Claims
5. Registeries

Tokenization

- Tokens represent objects on the shared ledger
- Digital or Physical Objects

Types of Tokens

1. Utility Token
 - a. Non-Fungible Token
 - b. Fungible Token
2. Security Token

Create a Token

1. Create
2. Deploy
3. Transfer
4. Redeem
5. Split
6. Mergesplit

Different solutions for Tokenization

1. BSV20
2. Stas
3. Ordinals
4. Tokenized
5. ERC20

Issue a Stas Token

Workshop Attendance

SCAN the QR Code below to mark your attendance



BSV Association Discord

Go to #tsoc-2024 and post your Bitcoin Script certificates



Thank you



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