

1. Distributing public keys securely is very difficult.

2. Existing solutions:

Public Key Infrastructure (S/MIME)

Key signing party (OpenPGP)



Distributed

Ease-of-use

Public Kay Chain

Establishing a distributed public key infrastructure with
blockchain, which brings ease of
use and high security guarantee
to existing and potential users.

Verified

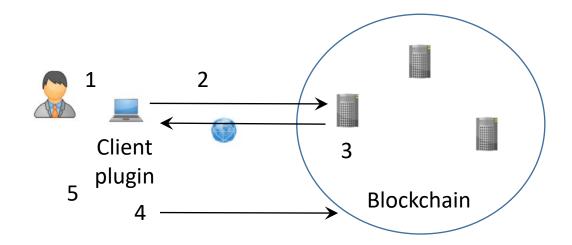
Simple User Interface

Publish my public key

Email address:

Find public key

Publishing and Verification Process



- 1. The Client generates his/her key pair and and certifies its public key, the certificate.
- 2. The Client sends the certificate to the blockchain.
- 3. The blockchain sends a challenging nonce to that address and posts the nonce to the blockchain. Up to N random nodes sends N nonces, and this prevents an attacker from controlling a single node.
- 4. The Client signs the modified nonce (nonce + 1) and sends it to the blockchain for each challenging nonce, up to N responses.
- 5. The Client deletes the challenging email after a response.