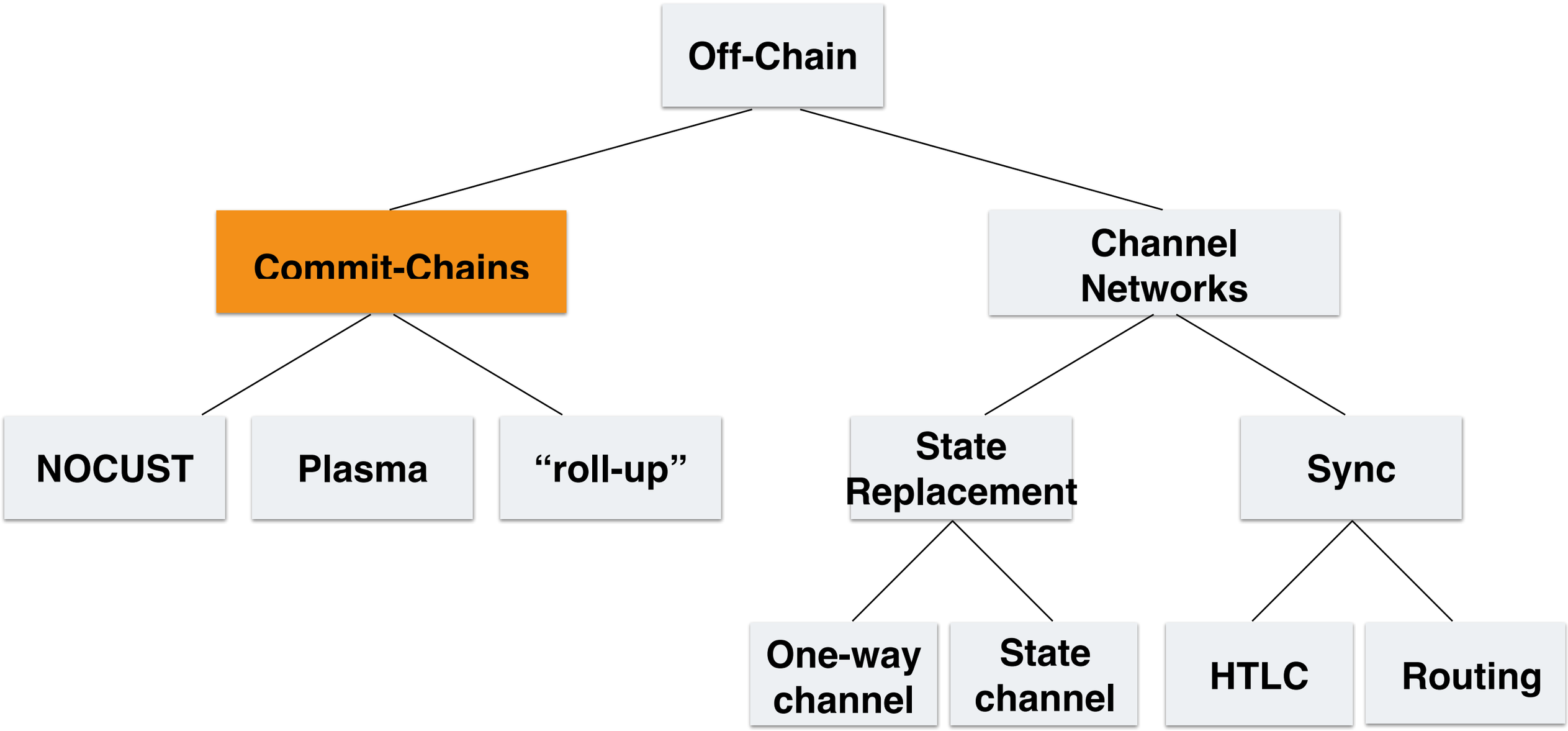
Commit-Chains

Which off-chain solution?



Commit-Chains

Blockchain

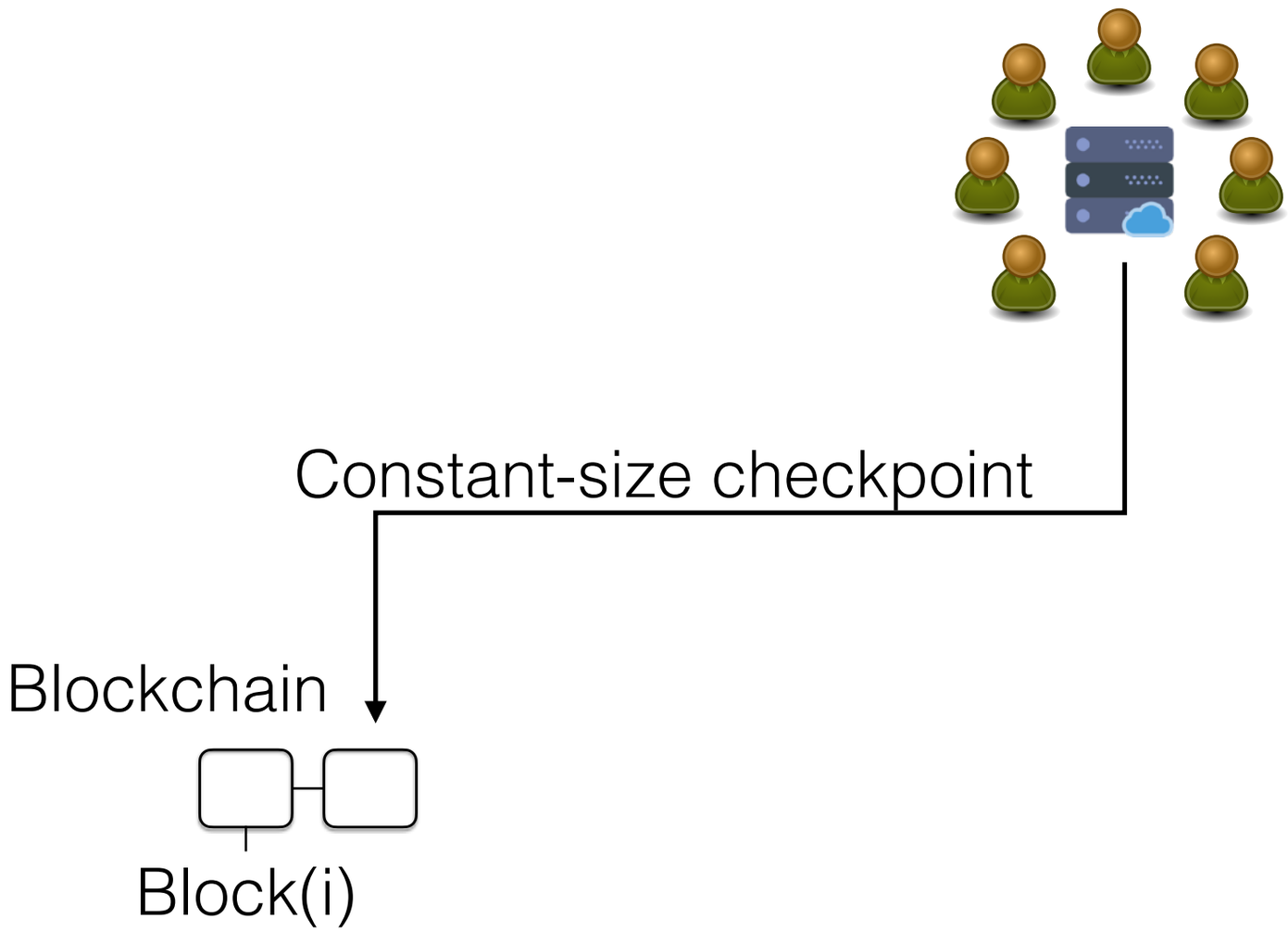
Block(i)

Commit-Chains

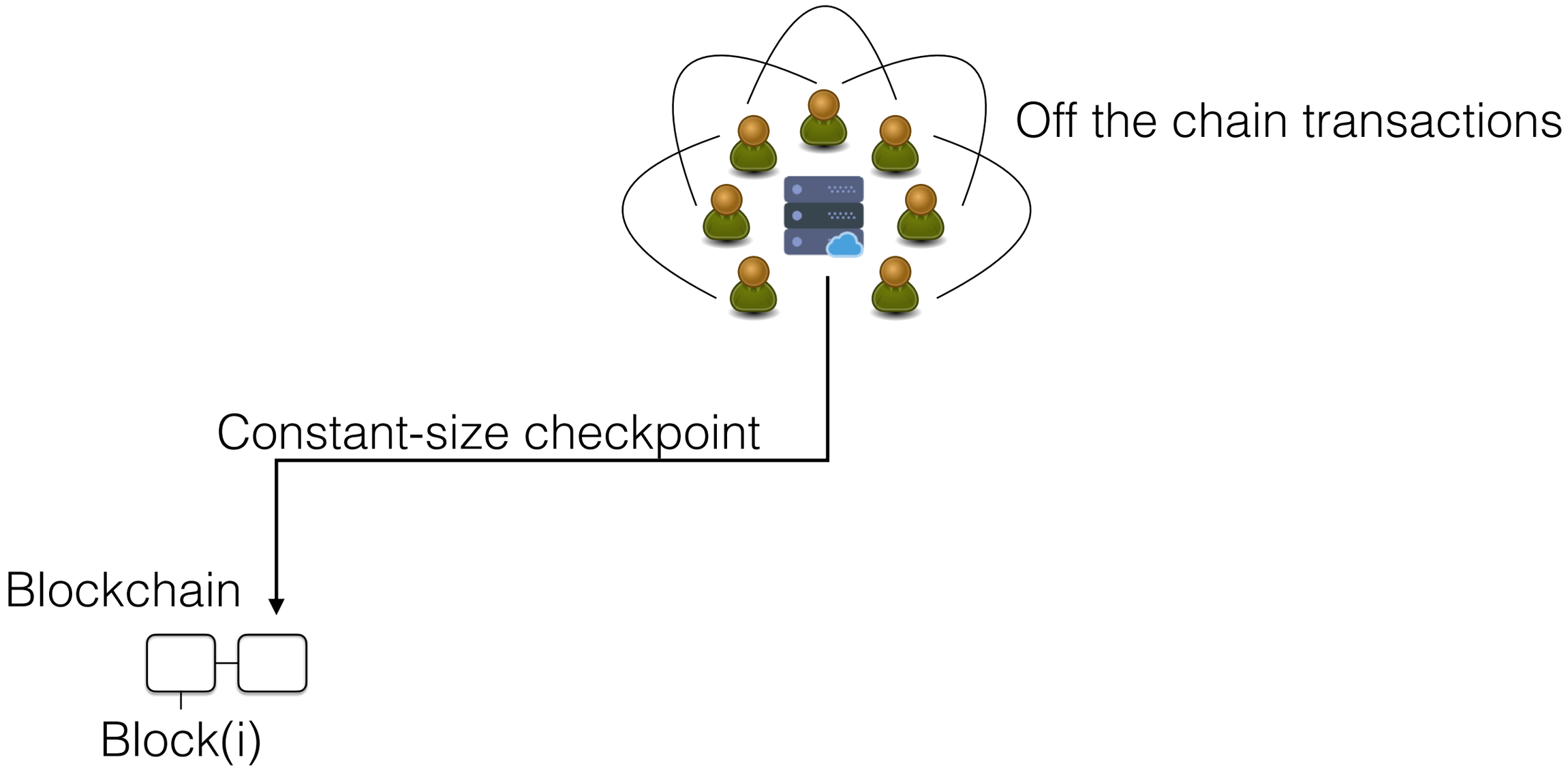
Blockchain

Block(i)

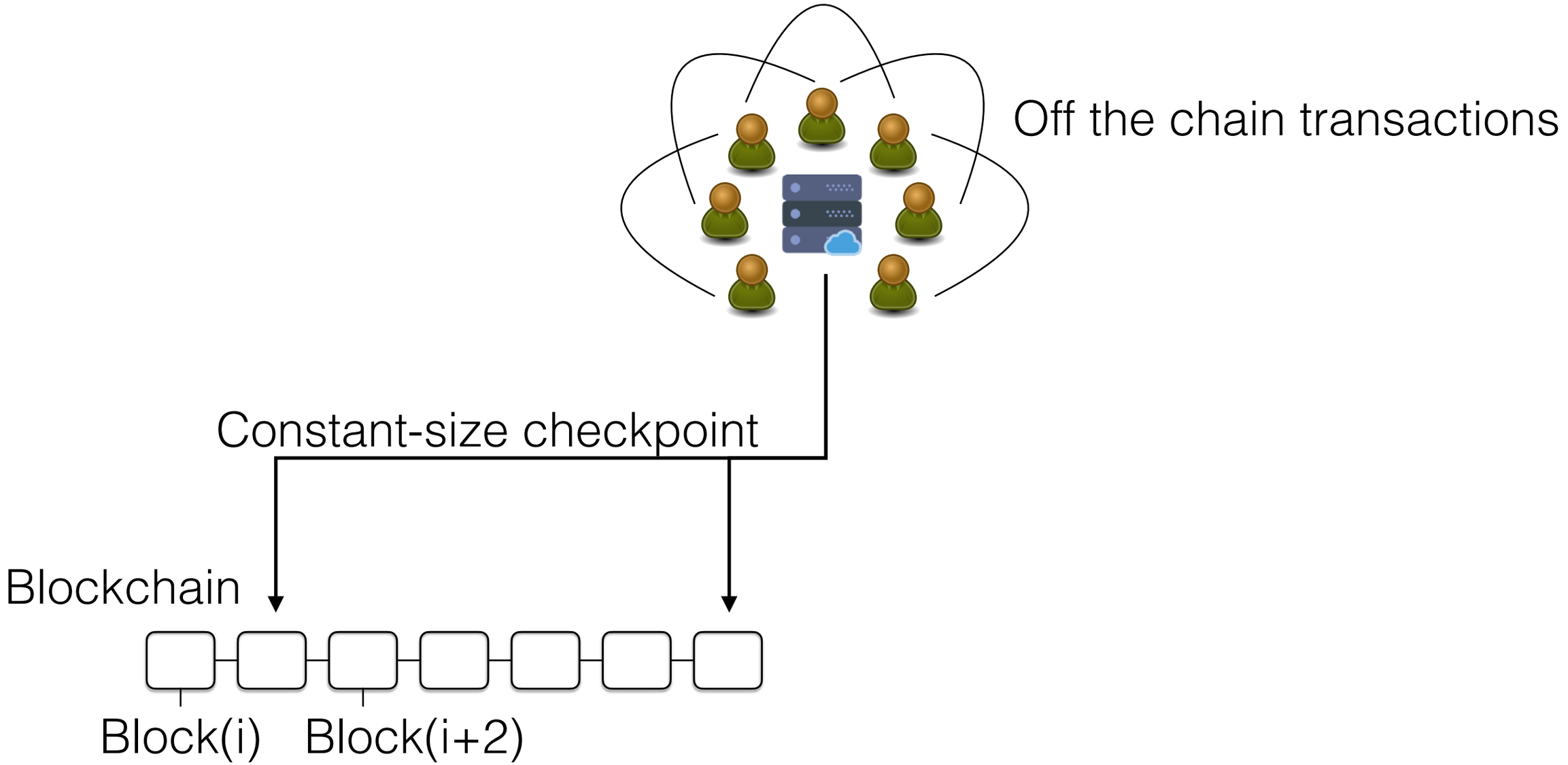
Commit-Chains



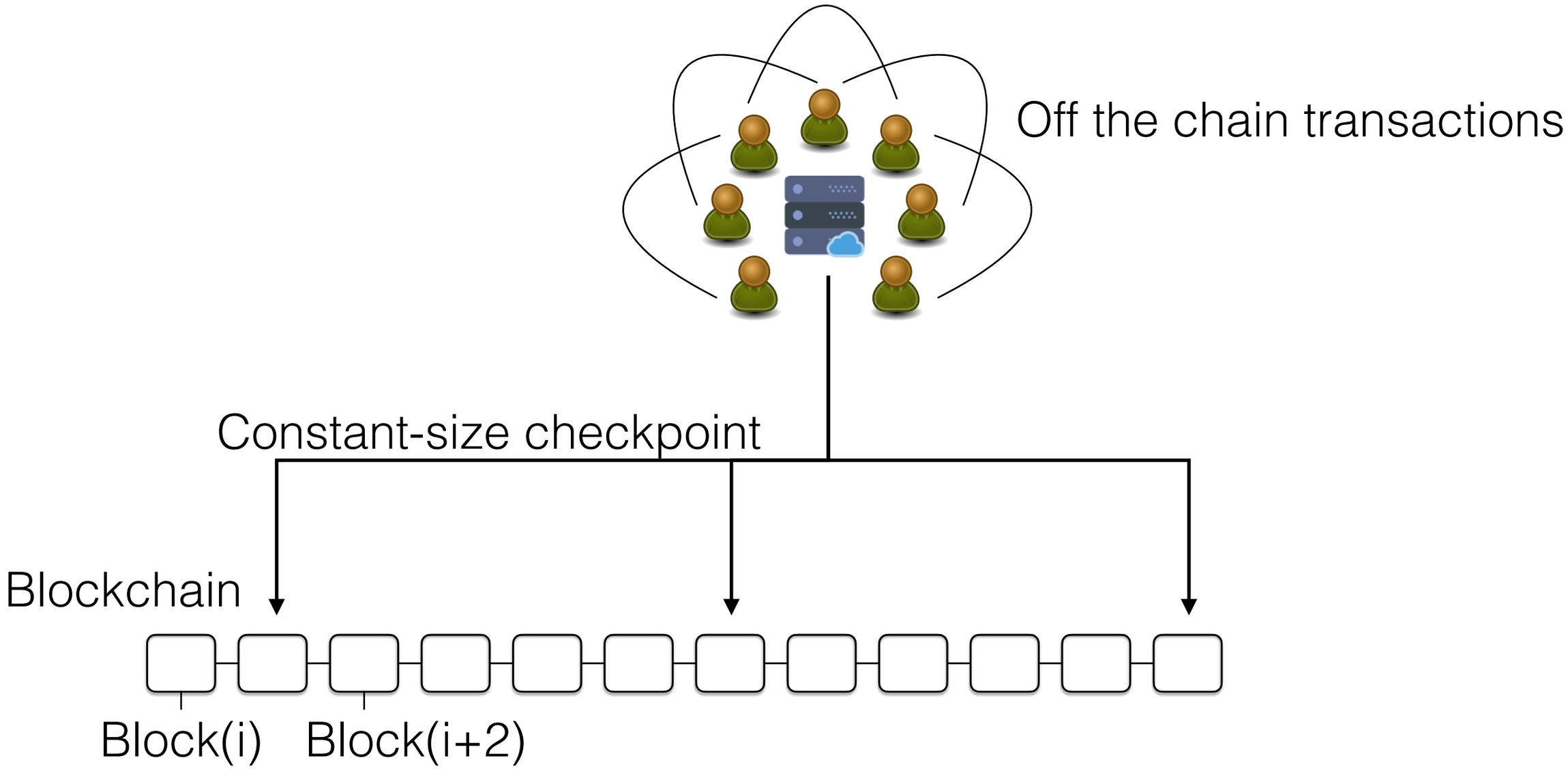
Commit-Chains



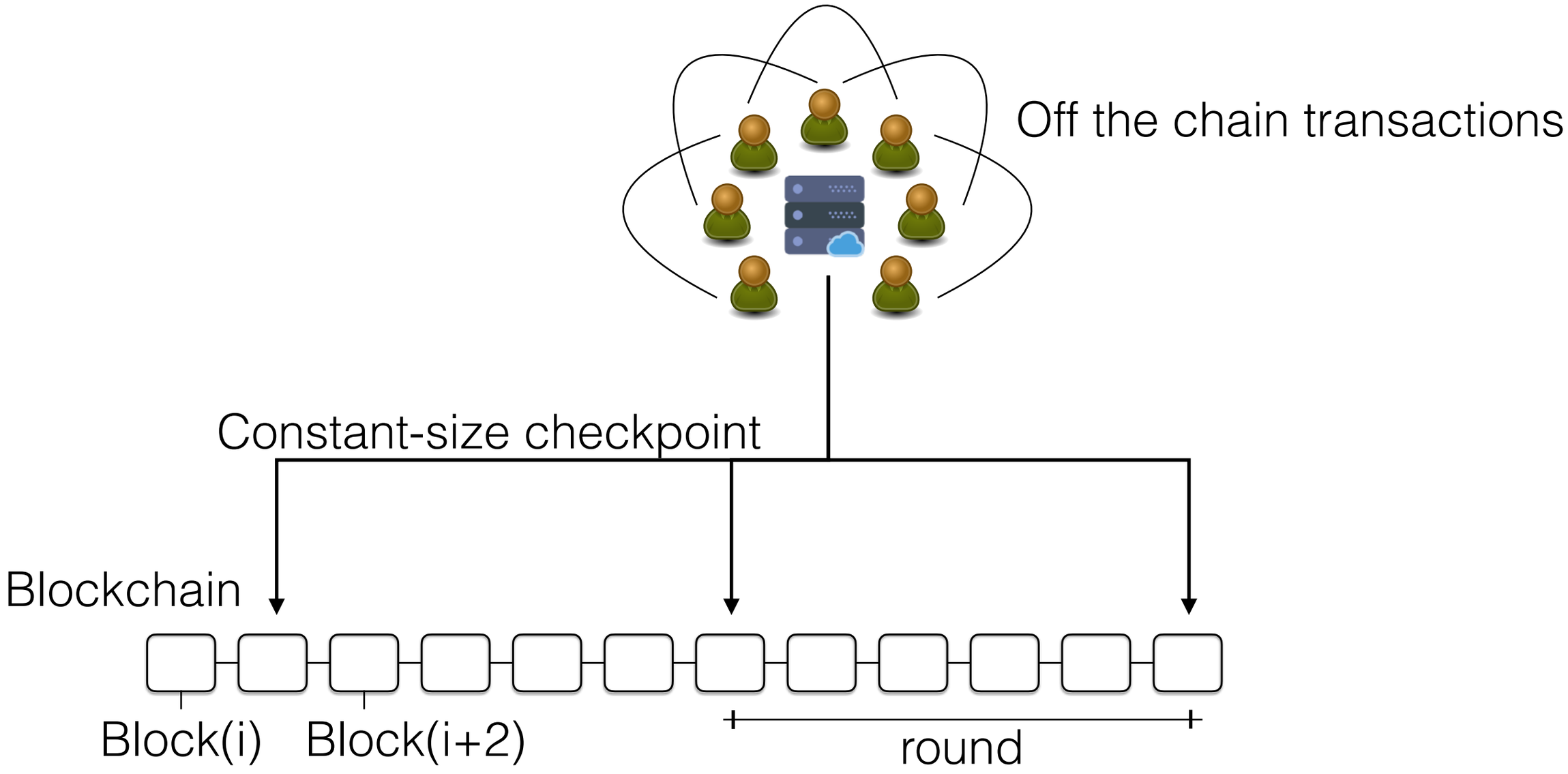
Commit-Chains



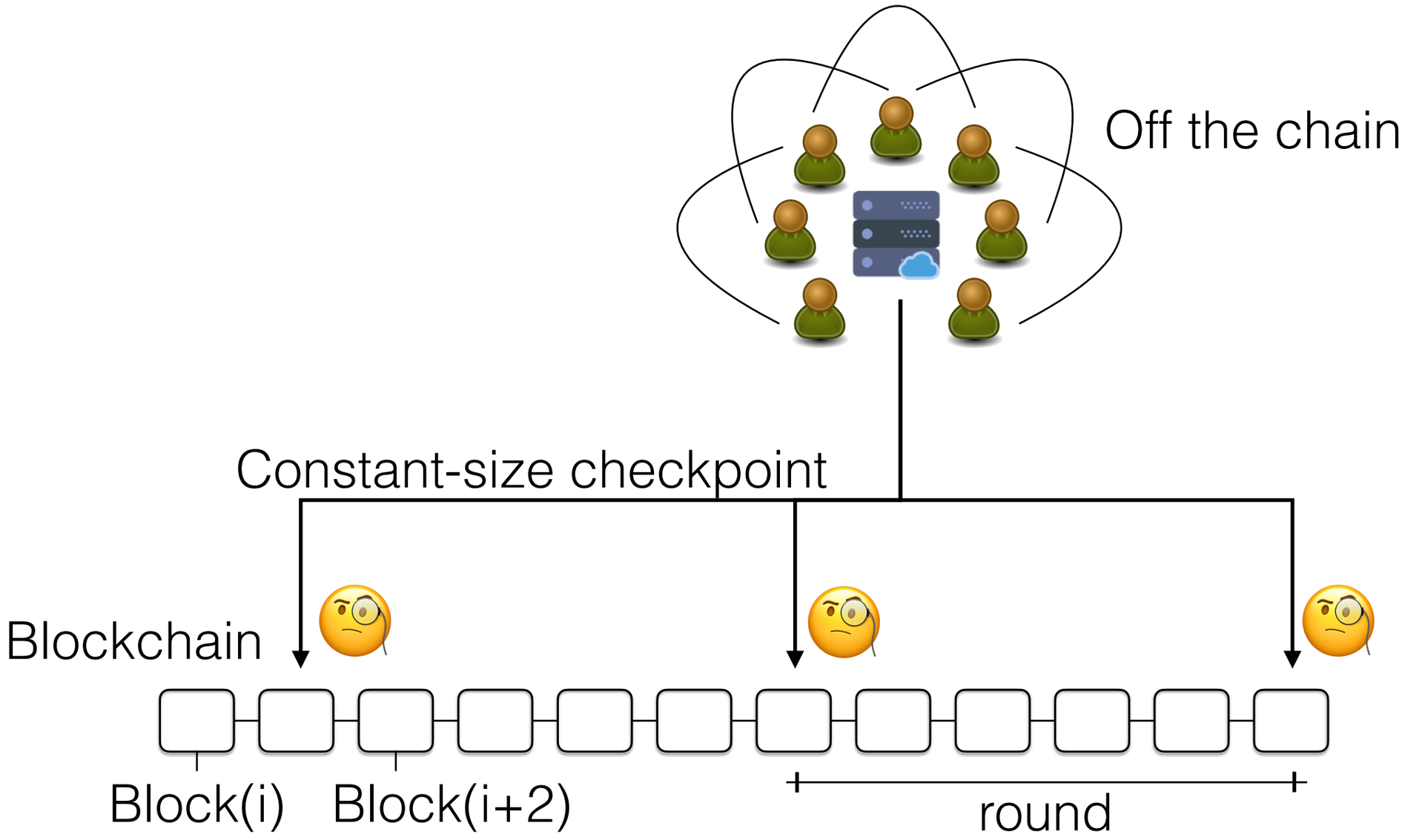
Commit-Chains



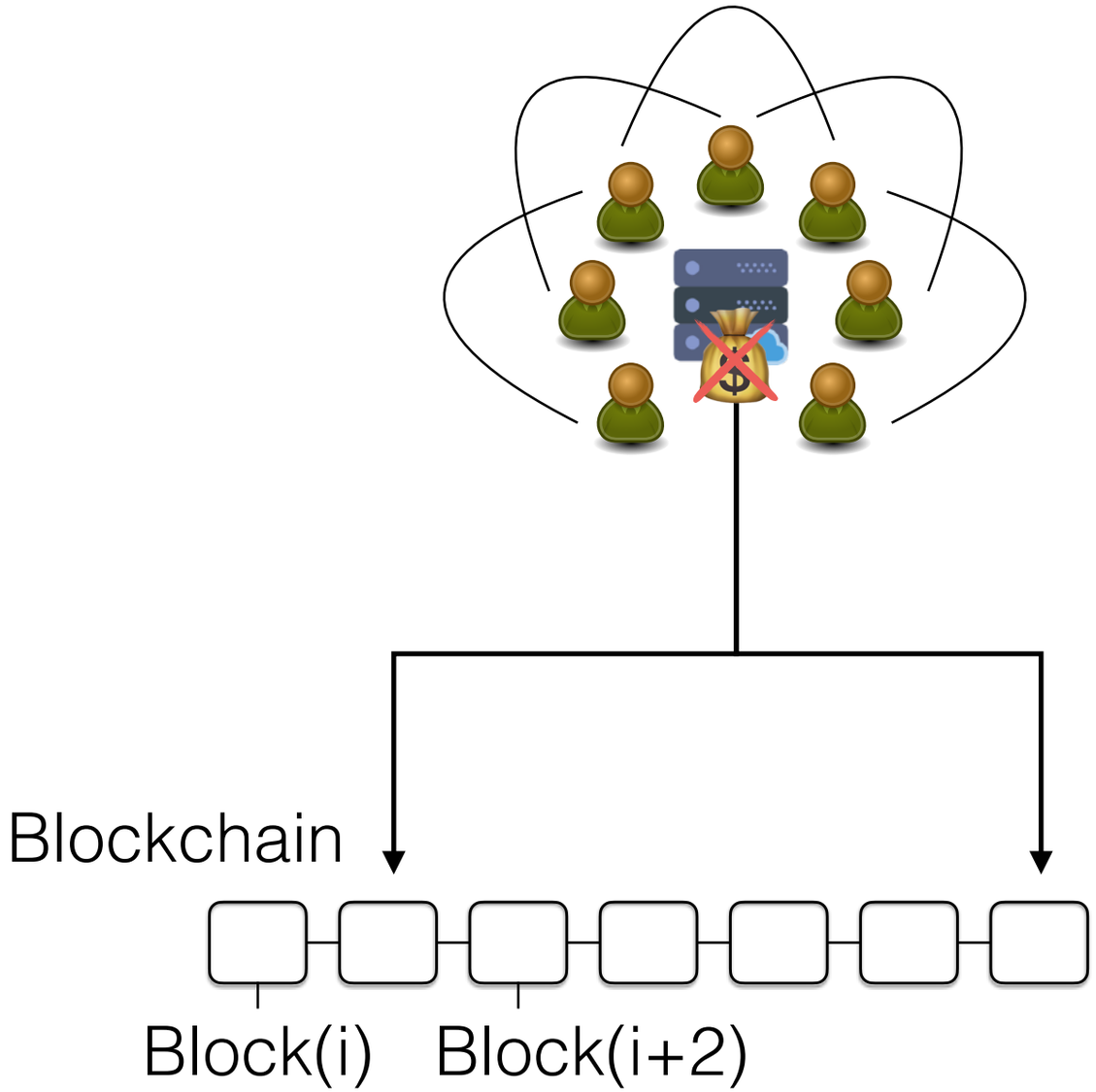
Commit-Chains



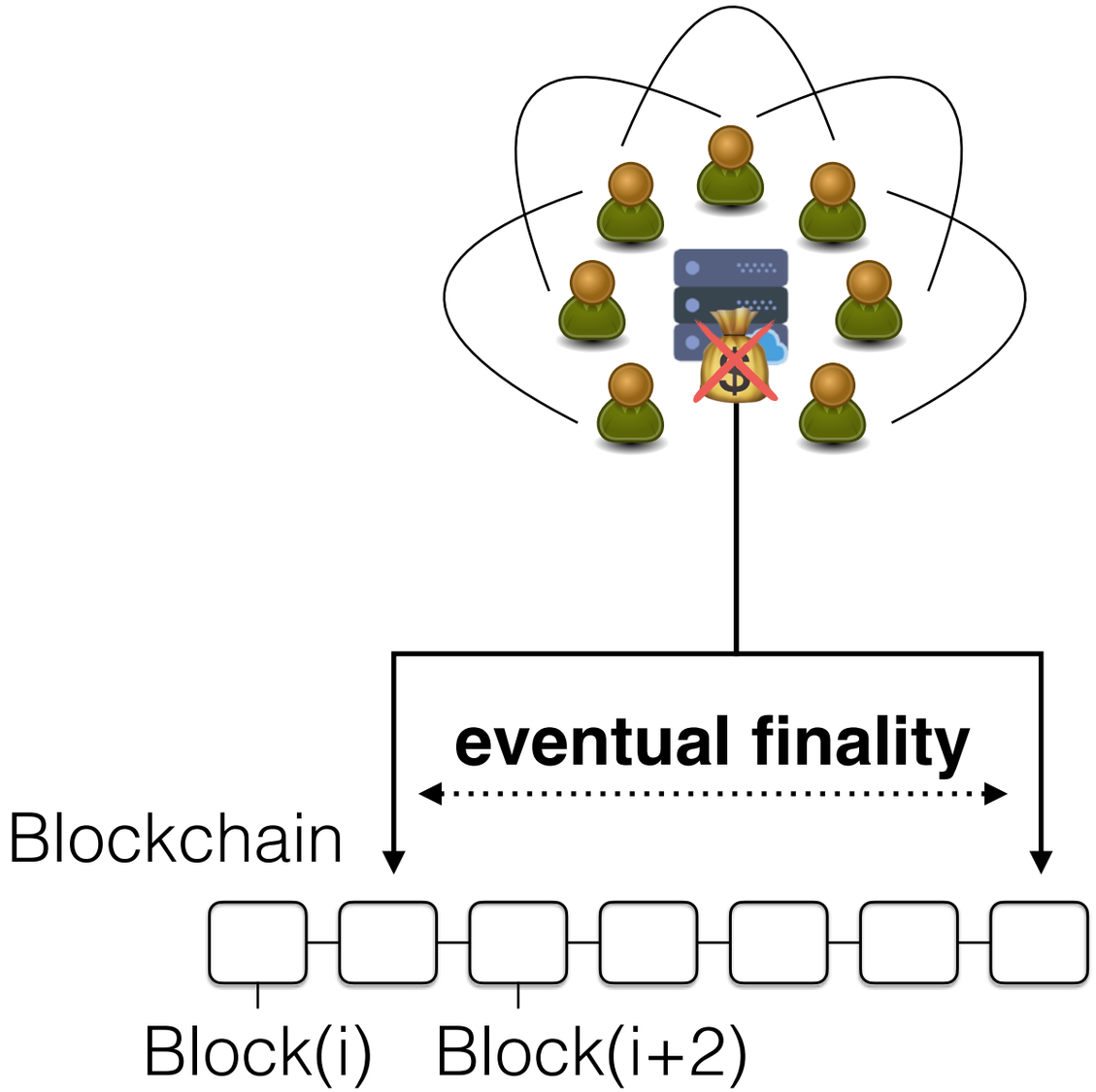
Commit-Chains



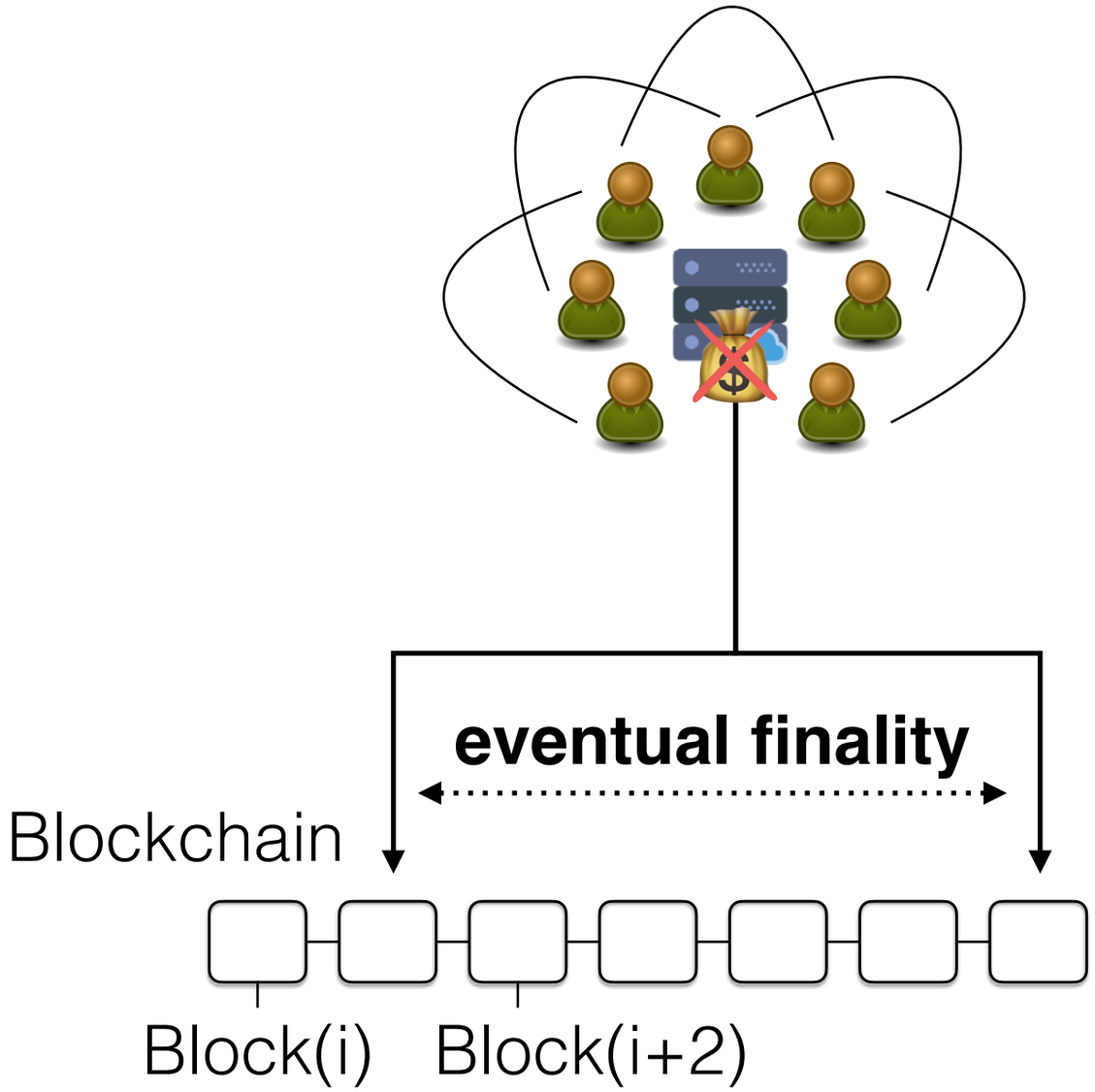
Without Collateral —> Eventual Finality



Without Collateral —> Eventual Finality

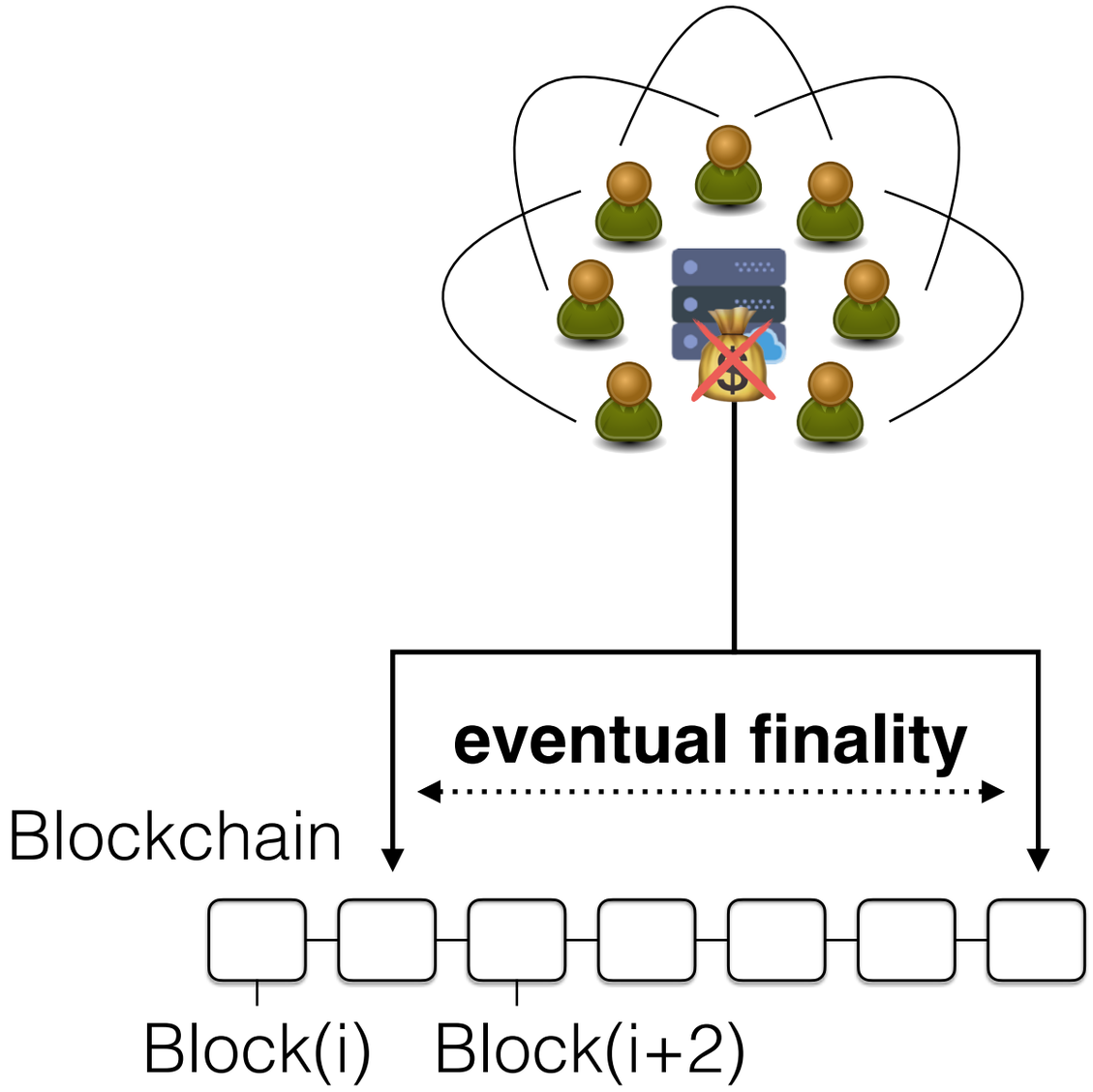


Without Collateral —> Eventual Finality



No collateral by operator

Without Collateral —> Eventual Finality

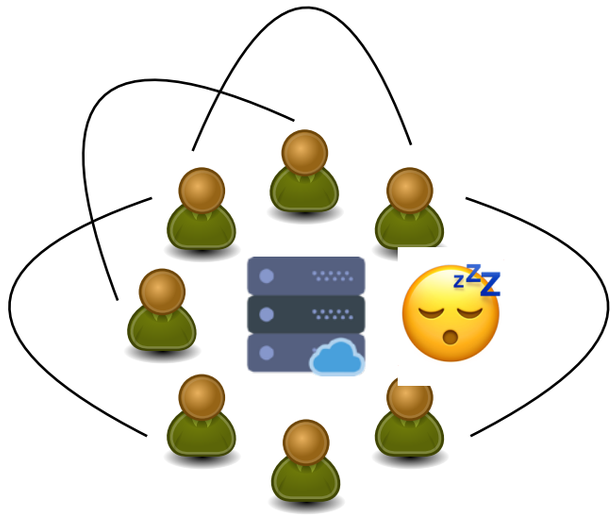


No collateral by operator

Recipient should wait..

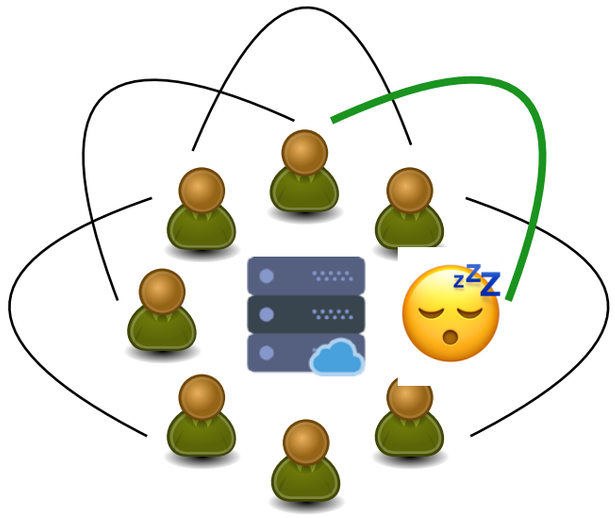
Receive TX while offline

Off the chain transactions



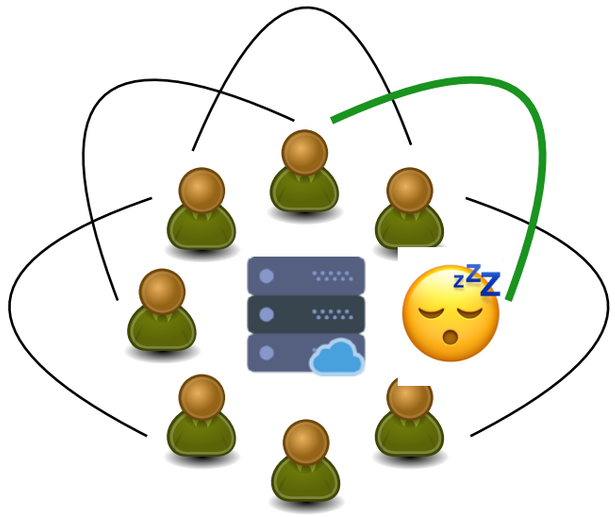
Receive TX while offline

Off the chain transactions



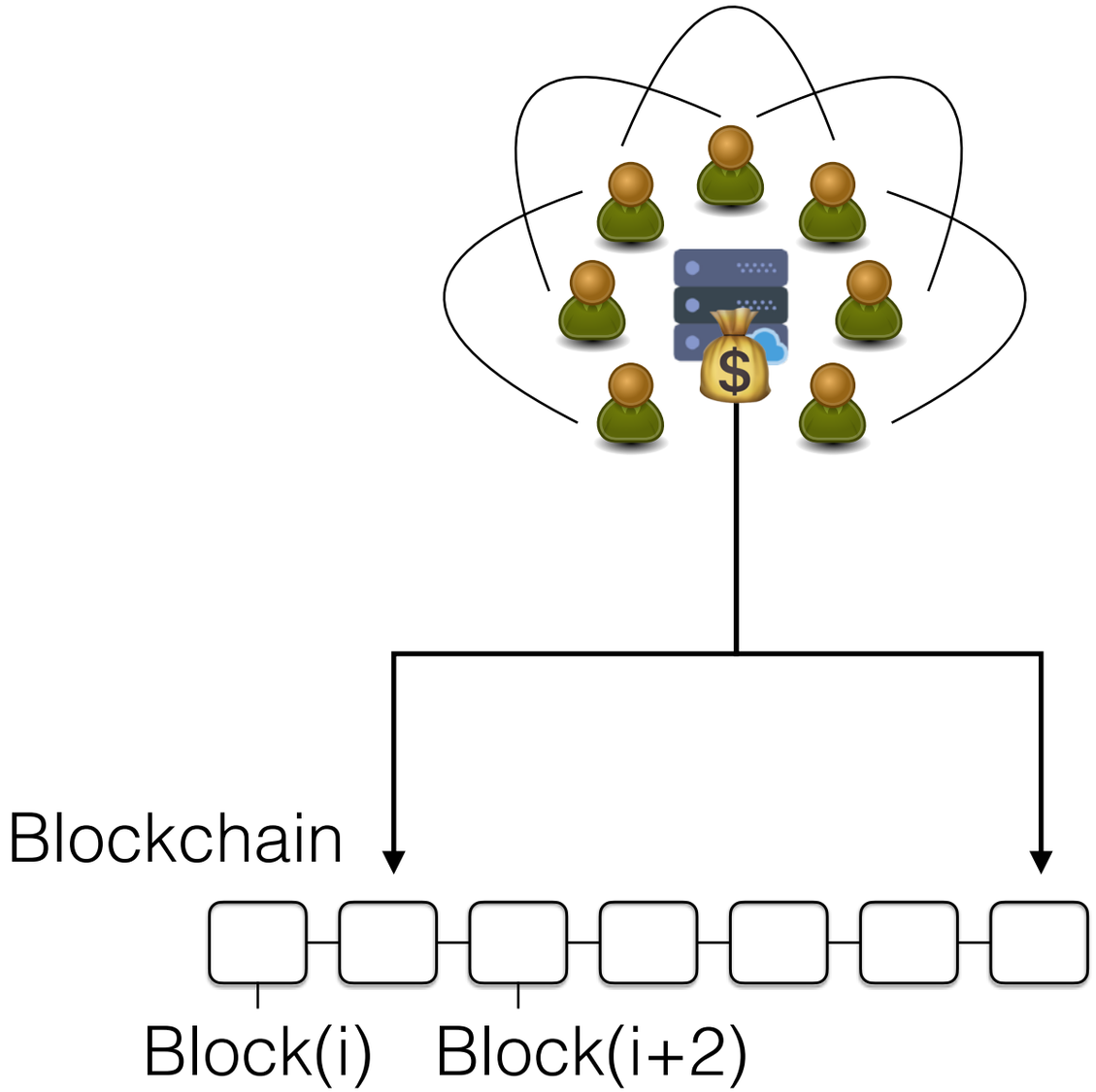
Receive TX while offline

Off the chain transactions

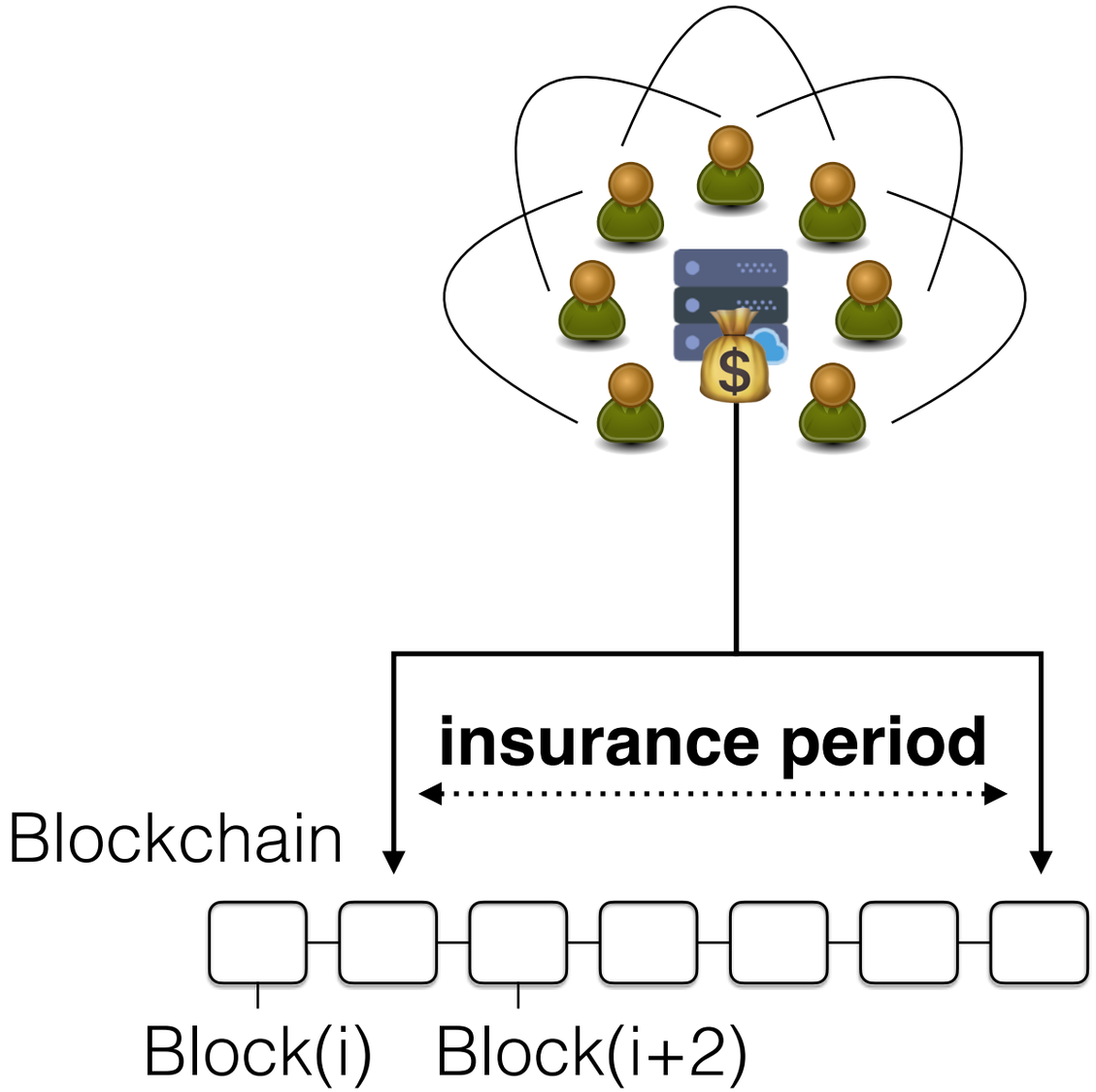


Like on-chain transactions..

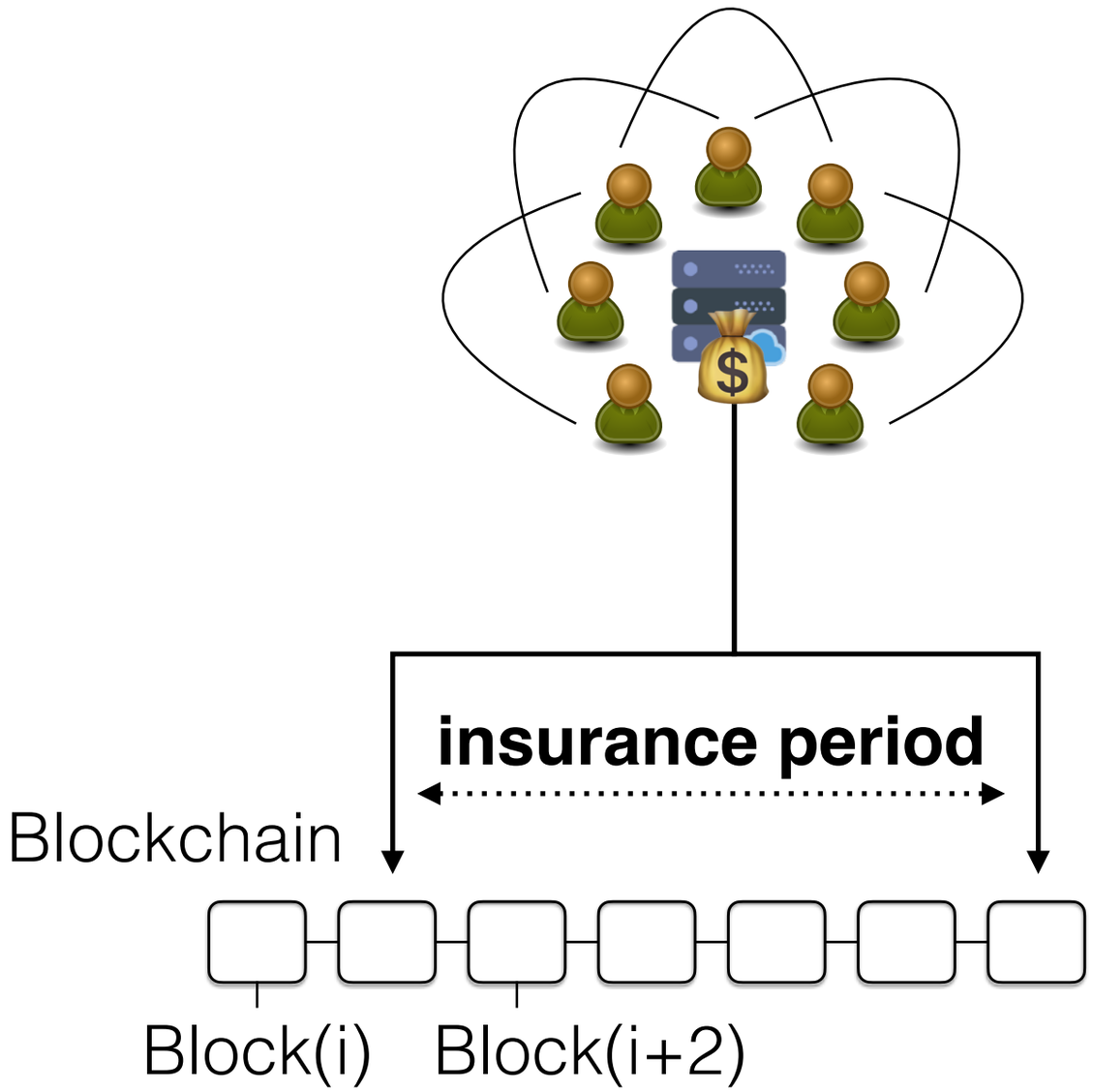
With collateral —> Instant finality



With collateral —> Instant finality



With collateral —> Instant finality



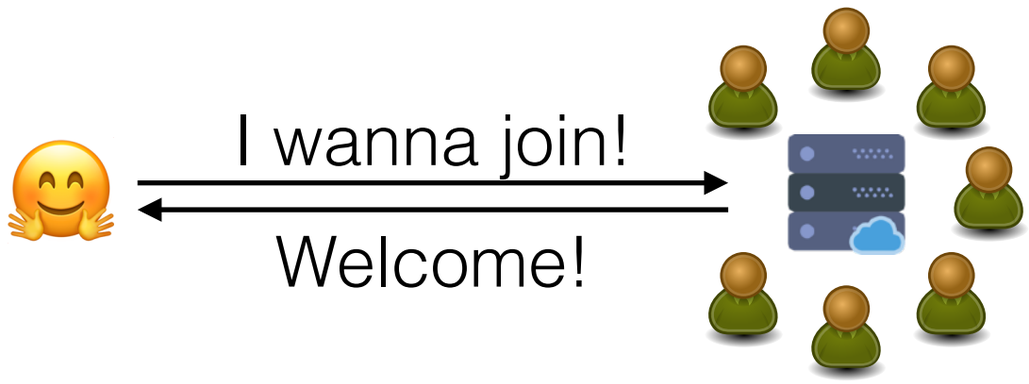
Insurance pool

Collateral re-usable each round

TX can be accepted instantly

Collateral allocation O(1) for all users

Join without on-chain Transaction



- Instant 🚀
- CO_2 friendly (Zero gas costs) 

Wait.. a centralized Operator

..but untrusted and non-custodial!

Cannot

- steal coins
- double spend coins
- mint new coins
  (if users follow the protocol..)

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