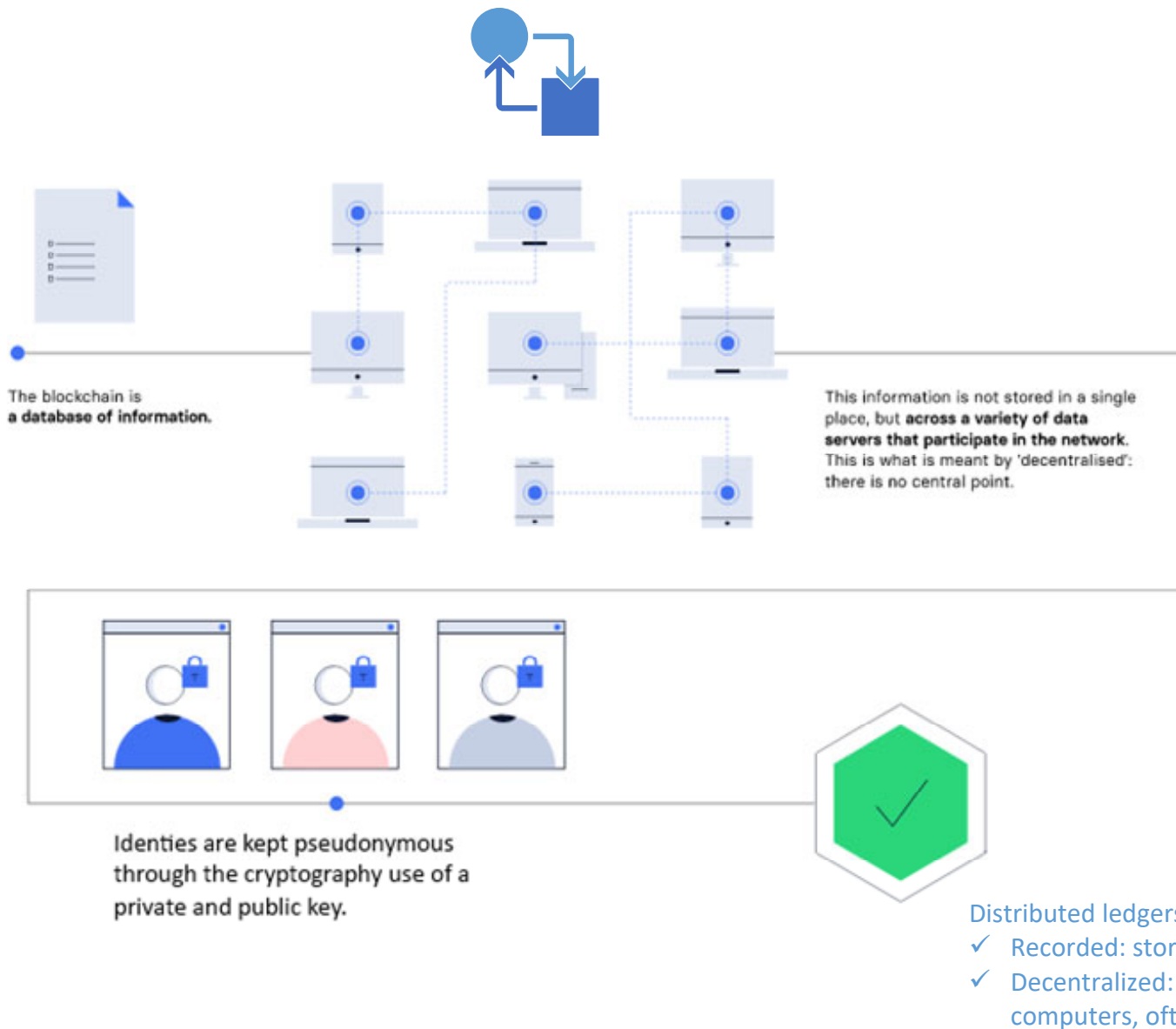


A blockchain is a public ledger of information collected through a network that sits on top of the internet. Blockchain technology is not a company, nor is it an app, but rather an entirely new way of documenting data on the internet. As nothing that is recorded on a blockchain can be changed, it is important to be absolutely sure where you are sending data. On a blockchain, once a transaction is sent it is sealed and cannot be reversed.





Normally, each block contains the data it is recording, for example a transaction like 1 GetChkd Request being sent from Alice to John, as well as timestamps of when that information was recorded. It will also include a digital signature linked to the user that made the recording and a unique identifying link, in the form of a hash (think of it as a digital fingerprint), to the previous block in the chain. It is this link that makes it impossible for any of the information to be altered or for a block to be inserted between two existing blocks. In order to do so all following blocks would need to be edited too. As a result, each block strengthens the previous block and the security of the entire blockchain because it means more blocks would need to be changed to tamper with any information.

When combined, all of these create an unquestionable storage of information, one that cannot be disputed or declared to be untrue.

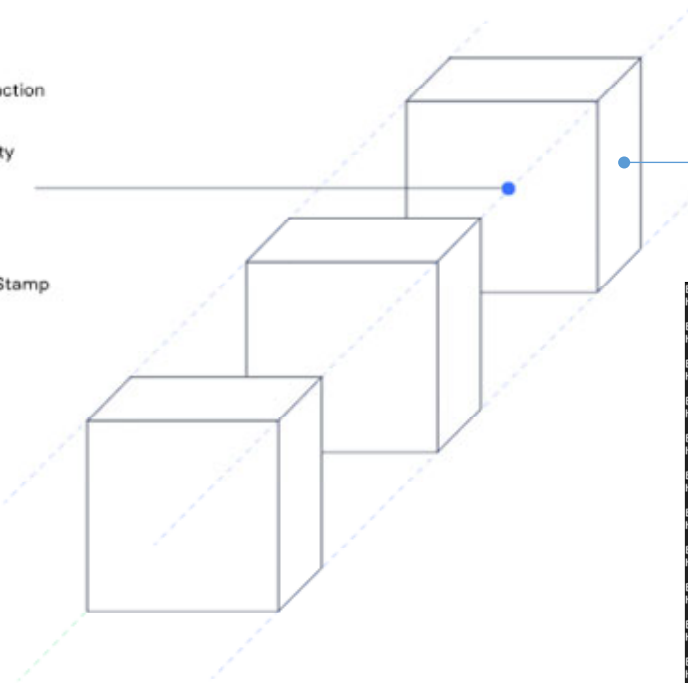


Every record written on a blockchain is secured by a **unique cryptographic key**.

When a new block is added on the chain, **everything from the previous block, including its key, is put into the formula to generate the key of the second record**. This interaction creates dependency. When a third block is created, the content and keys of the first two blocks, are put into the formula to outcome the key of the new third record.

This dependency chains all the records together.

- Transaction
- Identity
- Hash
- Time Stamp



```
Block #1 has been added to the blockchain!  
Hash: 6311e5906c3fcbdec077aeb4e3f15aba1a398ffbf74cafb033163e83c65cb2  
Block #2 has been added to the blockchain!  
Hash: 45c714818a556cde8ddc533f903daa92acd4ea0a03518a30ae1c3522d0e81ae  
Block #3 has been added to the blockchain!  
Hash: b58f7644cd153a910eee8a3fd20e2a453bacd13d253e54cadace8d615d80bbae  
Block #4 has been added to the blockchain!  
Hash: 5048e4dc66538c6baf45c7a77a211b23b89612e9afb8a2be485a2849df58005  
Block #5 has been added to the blockchain!  
Hash: a3f2caa493bfacca51796c63ca7ab4214d6e4403d70751ba526846094adc0160  
Block #6 has been added to the blockchain!  
Hash: 78384b46b91f52616794edc297997b6317e961138424fb3d5787f2627d3f1308  
Block #7 has been added to the blockchain!  
Hash: 0ffe13c9e1ce084455bb5247bb850e82bb0ad93d3cf3b6d011e23e4f64b81f13  
Block #8 has been added to the blockchain!  
Hash: c5292c8a89cc20714c180011bfbba373fc16582df3d9a49bf2834a0160f6e7  
Block #9 has been added to the blockchain!  
Hash: be740eab1b04382df0a980f3e804fa46115fd5aa5587f631f8662a010f31af4f  
Block #10 has been added to the blockchain!  
Hash: 0a71c411f6a68561abb7899c82e9fab8b81566c7ba00a7384cf50359cd9783041  
Block #11 has been added to the blockchain!  
Hash: 298ba850170e0e9a0ffe5040b53c7543966ca38610d45ca8cd8e266987b4b5e  
Block #12 has been added to the blockchain!  
Hash: 67716dd62cbab68ea77e88d138dbefbf7ad61a352e97002ba759bd1208f633cfc  
Block #13 has been added to the blockchain!  
Hash: 5825a74a677791368383428f8f6997d2af2b51dad9188cad35c40a340d0941  
Block #14 has been added to the blockchain!  
Hash: dcc4a9b103117ce95ef4f1eb4569a252d85b1af20b44853fb4851bd65b6a9  
Block #15 has been added to the blockchain!  
Hash: 963d86d69d39b6cd02e84b8f70da8549c7f110fcccdf4d3d0d870204cdfc90f
```