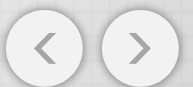


# **BLOCKCHAIN BASICS — A PRACTICAL APPROACH**

## **WHAT IS MULTICHAIN**



# WHAT IS IT?

- An Open Platform to build Blockchain Applications
- An extension of Bitcoin Core
- Multiple features have been added to make it more useful for practical usage other than only asset based transactions
- What have been added?
  - Permission management
  - Data Streams Transactions
  - Native Assets Transactions
  - Mining & Block Signatures
  - Extended Peer-to-Peer handshaking
  - & Many more

Ref: [multichain.com](https://multichain.com)

# PERMISSION MANAGEMENT

- MultiChain provides full control over permissions at the network
- In MultiChain, there are eight types of global permissions that can be granted to addresses:
  - connect – to connect to other nodes and see the blockchain's contents.
  - send – to send funds, i.e. sign inputs of transactions.
  - receive – to receive funds, i.e. appear in the outputs of transactions.
  - issue – to issue assets, i.e. sign inputs of transactions which create new native assets.
  - create – to create streams, i.e. sign inputs of transactions which create new streams.
  - mine – to mine blocks, i.e. to sign the metadata of coinbase transactions.
  - activate – to change connect, send and receive permissions for other users, i.e. sign transactions which change those permissions.
  - admin – to change all permissions for other users, including issue, mine, activate and admin.

Ref: multichain.com

# DATA STREAMS

- MultiChain offers Data Streams for shared immutable key–value and time series databases
- MultiChain streams enable a blockchain to be used as a general purpose append-only database, with the blockchain providing timestamping, notarization and immutability.
- In a simple language, this converts the whole chain into a key-value pair of database
- Makes it super easy to build decentralized applications on top of Blockchain
- Each stream is an ordered list of items, in which each item has the following characteristics:
  - One or more publishers who have digitally signed that item.
  - A key between 0 and 256 bytes in length.
  - Some data, which can reach many megabytes in size.
  - Information about the item's transaction and block, including its txid, blockhash, blocktime, and so on.

Ref: [multichain.com](http://multichain.com)


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THANK YOU FOR YOUR TIME