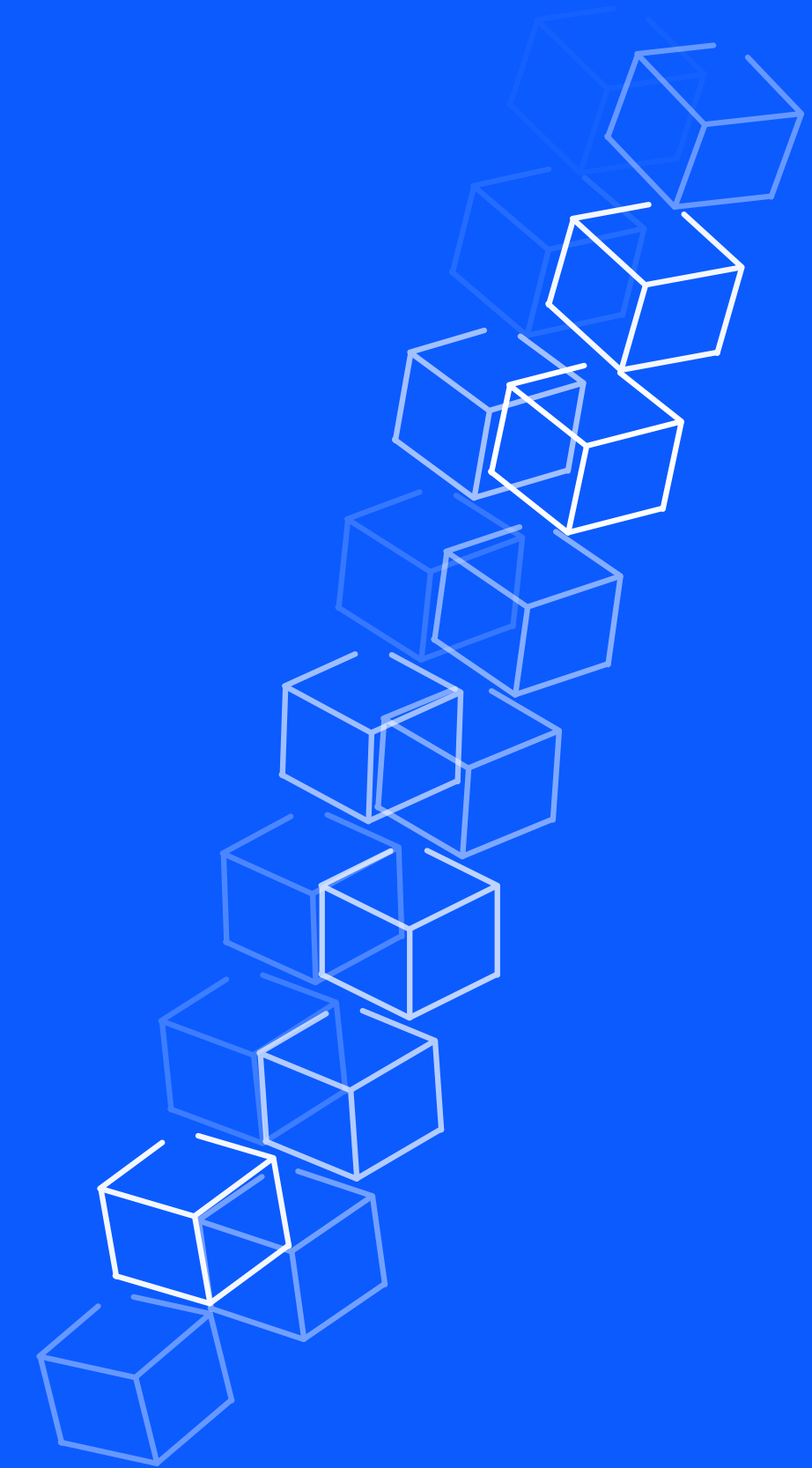


WEB 3 

WAVES

NETWORK PROTOCOL



waves

What is Waves Node?

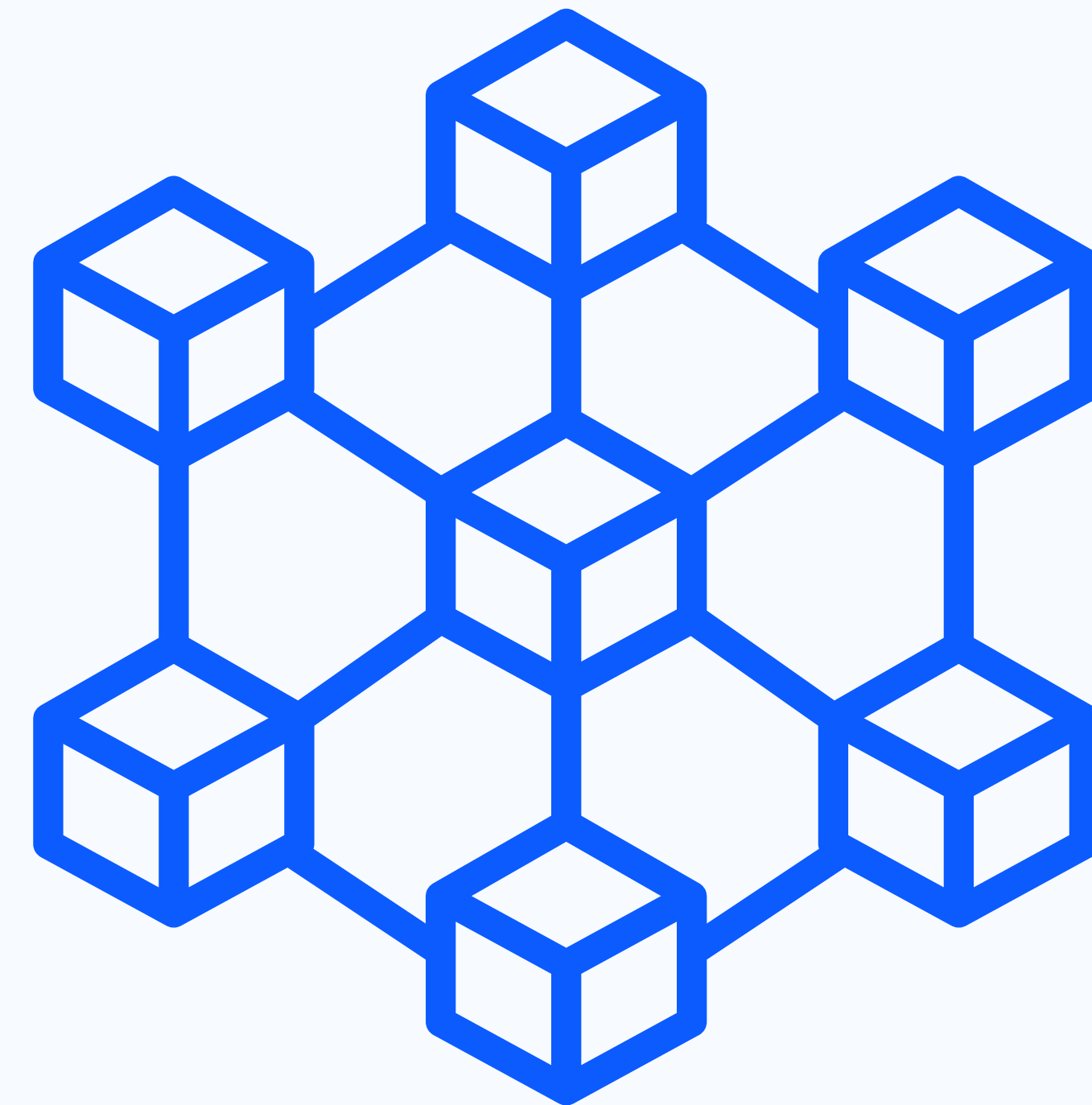
Waves node is a software that is responsible for **receiving transactions**, **creating, validating new blocks**, **synchronizing data between different nodes** and **reaching consensus** between them.

Validation entails:

- ensuring that the format of the block is correct
- ensuring that all hashes in the new block were computed correctly
- ensuring that the new block contains the hash of the previous block
- ensuring that each transaction in the block is valid and signed by the appropriate parties.

Each network member launches a copy of the node and synchronizes with the others.

Connected Nodes



Versions of Waves Node

1.

Scala

2.

GO

What Waves Node Consists of

Jar file

Binary

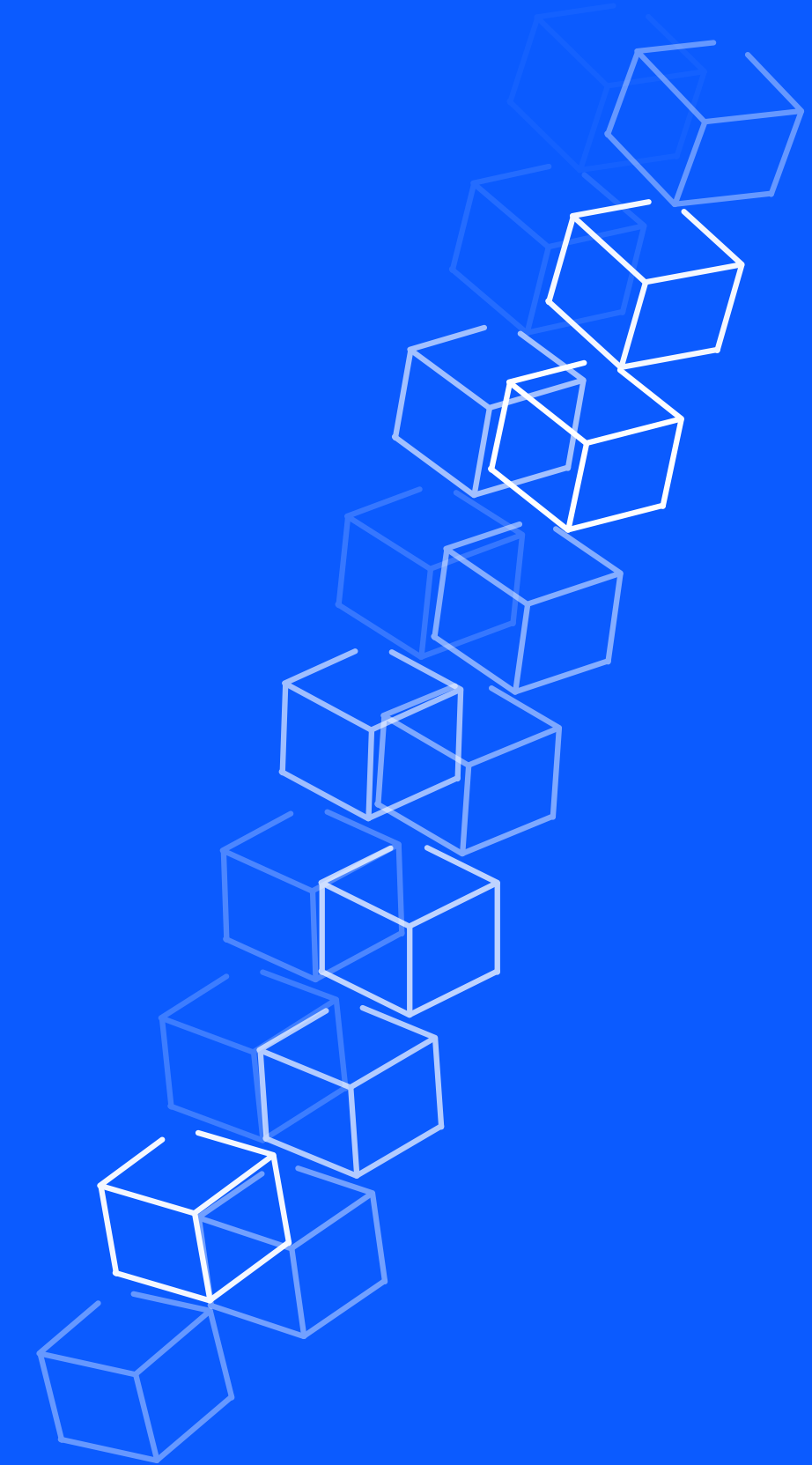
NOTE:

A Waves node is a software.

Starting a Waves Node

- Launch Jar file
- Run Docker Container
- Install and run from .debfile
- Install from apt-repository

waves



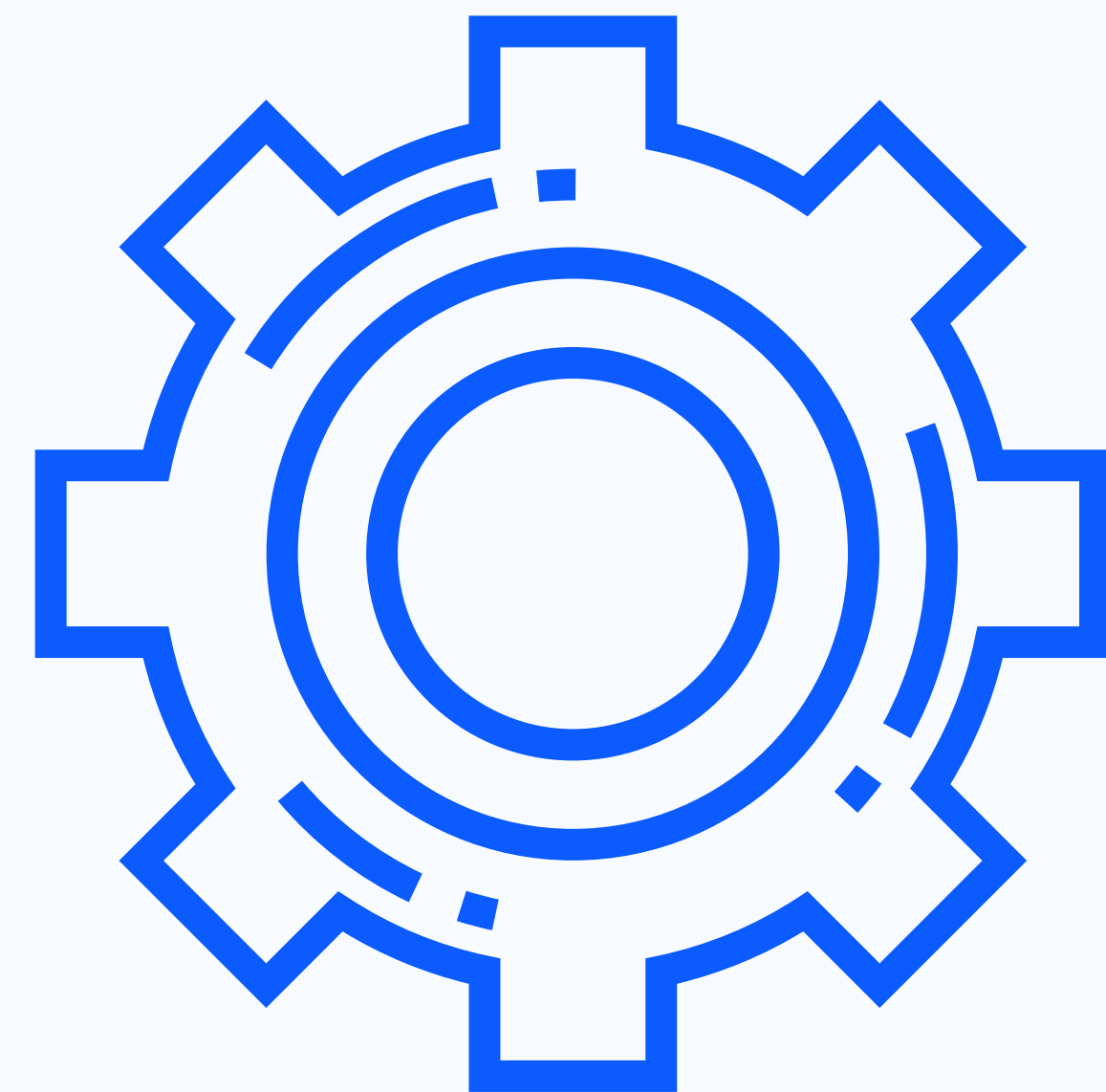
Waves Node Configuration

Configuration file (application.conf)

The Waves node configuration file is described in the HOCON format (it's like JSON, only with comments, the ability to compose multiple files and, no less important, with fewer quotes)

- **waves**
- kamon
- metrics
- akka

The file is constantly changing, but the current version can be found in the Waves repository on Github



Configurations Parameters

1.	db	6.	miner	10.	features
3.	network	7.	rest-api	11.	rewards
4.	wallet	8.	synchronization	12.	extensions
5.	blockchain	9.	utx		

NOTE:

A Waves node is a software.

Waves-NG solution

A Waves blockchain protocol which makes Waves blockchain fast and responsive.

- Waves-NG got its name from Bitcoin-NG article
- embodied into Waves blockchain in late 2017
- NG here stands for Next Generation

How does it improve Waves blockchain?

1.

affects how blocks are generated

2.

affects how nodes communicate with each other

NOTE:

A Waves node is a software.

Upcoming NEXT:

Waves NG
**How Mining
Works**