

Blockchain, Bitcoin & Lisk



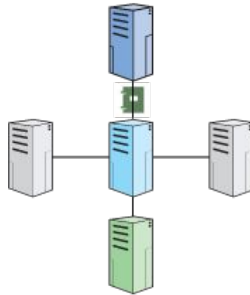
A brief introduction to the **Blockchain** eco-system and
deepening on **Lisk**

Andrea F Speziale (liskit) | Davide Gessa (dakk)
20/02/17 Turin, Italy

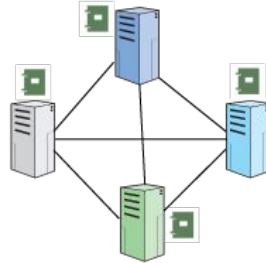
Blockchain & Bitcoin

What is the Blockchain?

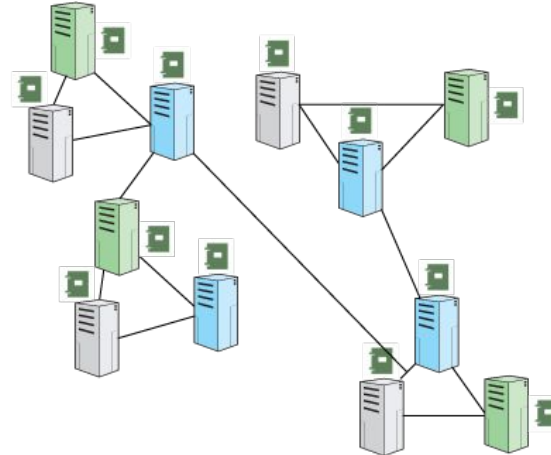
DECENTRALIZED LEDGER | LIST OF BLOCKS | TAMPER RESISTANT



Centralized ledger network



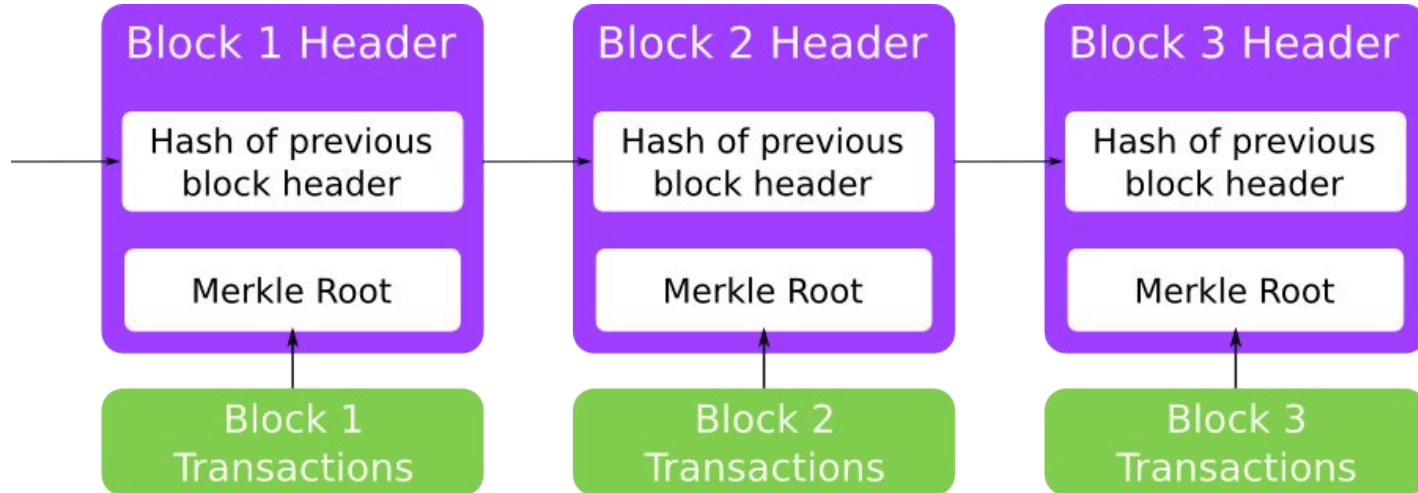
Distributed ledger network



Decentralized ledger network

What is the Blockchain?

- A list of concatenated blocks
- Blocks are not editable after their insertion in the chain
- Security provided by cryptography



What is the Blockchain?

- New blocks are appended in the chain with a process called **mining**
- Mining is an expensive process and need a growing amount of resources
- Miners compete for the creation of the next block
- Miners receive a reward for every mined block



“On top” of the Blockchain?

Platforms | Area | Algo



Digital cash

POW Proof of Work



ethereum

Smart contract

POW (POS) Proof of Work/..Stake



STORJ.IO

Decentralized storage

POR Proof of Retrievability



Lisk!
& DPOS



Lisk - intro

22 February - 21 March 2016

ICO Initial Coin Offering

14,009 **BTC**

about

13,5 millions **€**

~ **0.13 €** per LSK | ~ **85K €** volume | ~ **13.6 MLN €** market cap

Lisk - intro

Decentralized App Framework

Developed entirely in **Javascript**

Open Source

DPOS

API & SideChains & SDK

Lisk - js & open source

2016 **Stack Overflow** Developer Survey

85% Full-Stack developer use **Javascript**

Open Source

<https://github.com/liskHQ>

Lisk - node, wallet & API

“Simple and Ready to use”

VPS **2-4GB RAM** e **2VCPU**


Self-installing node (“bash is lovely”)


Many **APIs** which handle the communication with the node

(e.g “http(s)://ip:8000/api/loader/status/sync”)

Lisk - node, wallet & API

“Super Easy Blockchain gateway”

 LISK



Welcome back, liskit
10310263204519541551L

Dashboard

Multi-Signature

Applications

Forging


Blockchain

Dashboard

28964.53863375 LSK [SEND](#)

Balance

28964.53863375 LSK



Lisk Client
v0.5.2
Latest version

Latest Transactions

Transaction ID	Sender	Recipient	Time	Amount (Fee)
14797836971735218986	10310263204519541551L	13861531827625059307L	1 day ago	500 (0.1)
3396095718272084680	10310263204519541551L		1 day ago	0 (1)
4294005432147053974	9928657174834945723L	10310263204519541551L	3 days ago	250 (0.1)
3518949485403310790	10310263204519541551L	13861531827625059307L	12 days ago	1000 (0.1)
14204952685883988974	1635463232148243197L	10310263204519541551L	18 days ago	200 (0.1)
1907366250426327784	10310263204519541551L		18 days ago	0 (1)
3899170305824068035	10310263204519541551L		20 days ago	0 (1)
2158015481632939666	10310263204519541551L		21 days ago	0 (1)

Lisk - DPOS

Delegate Proof of Stake

network composed by **950** nodes **Mainet** | **400** nodes **Testnet**

Delegates act as creator for new blocks, voted by the community

forging delegates **101**

tot **962 Mainet** | tot **321** nodes **Testnet**

Lisk - DPOS

Voting system

1 LSK x **33** votes for a total of **101**

Forging & Reward

Delegate Round / **10 sec** per Block

5 LSK 1 year | **4 LSK** 2 year | **3 LSK** 3 year | **2 LSK** 4 year | **1 LSK** from 5

Lisk - ecosystem

Users

- Merchants
- BlockChain Apps users

Delegate

- Network guard
- **Lisk** forger

Developer

- Services developer using API / SDK

Lisk - development

current **Version**

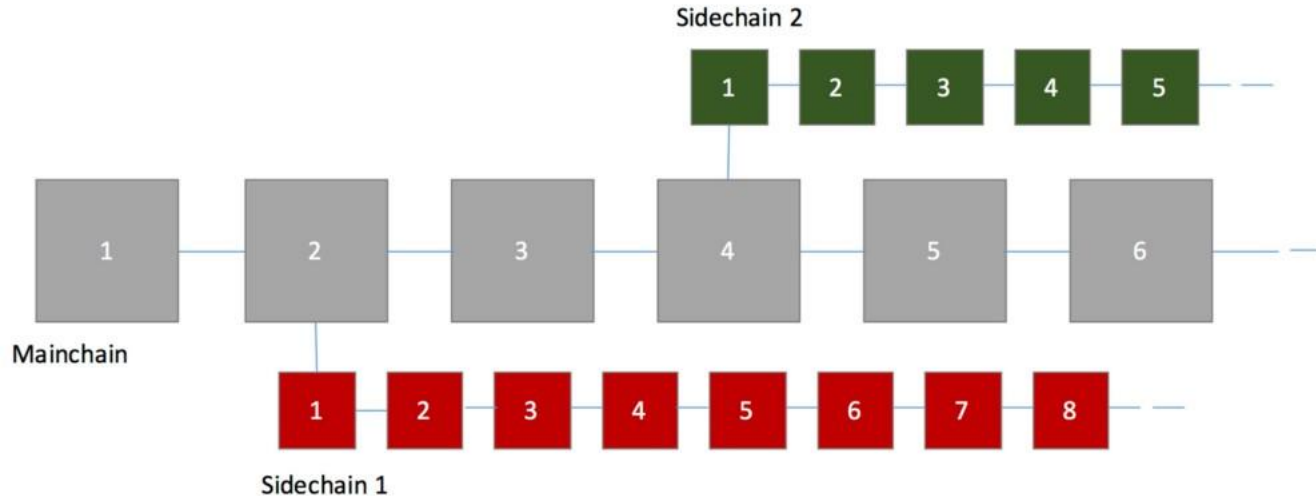
0.5.2 on **Mainnet** | **0.6.0b** on **Testnet**

2016

Forging **Community** | **Foundation** | **Code Improvements**

Lisk - sidechains, BAPPs & SDK

“Blockchain Branches”



Lisk - sidechains, BAPPs & SDK

Blockchain Applications

a lot of **proposal** and **concepts**

find it on Lisk official website **lisk.io**

Lisk - sidechains, BAPPs & SDK

2017!

Community & LIG - Lisk Italian Group

Lisk - community

Lisk Channels

Lisk Website chat.lisk.io

Lisk Chat chat.lisk.io aprox **3314** registered users

Lisk Forum forum.lisk.io

Lisk Blog blog.lisk.io

... twitter, facebook and youtube and more!

Lisk - community

Lisk Tools

Lisk Network explorer.liskwallet.net

A lot of **Guidelines** and installation/monitoring

node tools

telegram bots and more

* everything is reported on the Lisk forum!

Lisk - LIG LISK ITALIAN GROUP

Group Website liskitaliangroup.github.io

8 Italian delegates committed in

Dissemination | Coding | FULIG



dakk



liskit



anamix



corsaro



splatters



redsn0w



gregorst



ondin

Lisk - LIG LISK ITALIAN GROUP

7 contribution to **Lisk** core & documentation

+ 10 open source **projects**

Investors using **Multi-signature** address named **FULIG**

explorer.liskwallet.net/address/13861531827625059307L

15K LSK circa **2K €**