Project overview

iExec wants to decentralize cloud computing market by building the future of the Internet infrastructure. We are developing the first blockchain cloud computing platform.

iExec aims at providing to companies a scalable, secure and easy access to the services, the data-sets and the computing resources they need.

Our technology relies on the Ethereum smart contracts and allows building a virtual Cloud infrastructure that provides high-performance computing services on demand.

Located in the area of Lyon, the project is based on the re-search work of Gilles Fedak, Haiwu He and Oleg Lodygensky. These three are all accredited researchers at INRIA, CNRS and the Chinese Academy of Sciences. They have been active since 2000 in researching grid-computing, the technology which enables to decentralize computing.

Added-value of the project

• A mature, solid, and open-source Desktop Grid software
• Over 80 top-quality scientific papers in top scientific conferences and journals

We envision a new eco-system of companies offering storage, computer farms, data providers, web hosting, SaaS applications, and all making business to others through iExec.

A blockchain company

iExec is strongly involved in Ethereum blockchain ecosystem. We issued the RLC token, launched a crowdsale on April 19, 2017 and received 10,000 BTC ($12Mlns) from around 1200 contributors making it, at that time, the 5th largest ICO in history.

87 millions of RLC token has bee released. Theses tokens will be used, once the product developed, to access to the platform’s services. The cryptocurrency RLC gives access to the computing power of the network. RLC is an acronym for ‘Runs on Lots of Computers’.

RLC is iExec’s native currency, and functions as a ‘utility token’—a monetary transfer medium with a single purpose: buying and selling computing power on the iExec network. RLC is running on the Ethereum® blockchain.

State of progress

The release of the first version was carried out successfully in November 2017, and the first decentralized applications are currently being written to run on iExec.

On the journey of becoming a cutting-edge cloud network, iExec will launch the first-ever App Store for decentralized applications in late December. The targeted sectors are applications focused on AI, big data, IoT, fintech, green IT...

SDK v2.0 will be released as the next iExec milestone in May 2018. At this point, users will be able to rent their computational power to the iExec ecosystem applications and earn revenue.

As for Existing infrastructure providers

• Allows rapid monetization of existing computing re-sources for home users
• Additional monetization for existing infrastructure providers.

As for dapps or Cloud infrastructure users

• Reduce costs
• Integrated quality of service controls providing the required level of computing resources
• Increased transparency

Additional information: Our blog - The hands-on tutorial - The iExec SDK repository - The iExec Explorer
Decentralized
Open for anyone to rent computing resources (CPU, GPU, datasets) and become a cloud provider

Safe
Greener and smarter cloud computing with no risk of outages and extremely high-level of accuracy (PoCo algorithm)

Powerful
Can support compute-intensive applications of 3D rendering, machine learning, artificial intelligence, IoT, and scientific calculations

Decentralized
Open for anyone to rent computing resources (CPU, GPU, datasets) and become a cloud provider