iExec

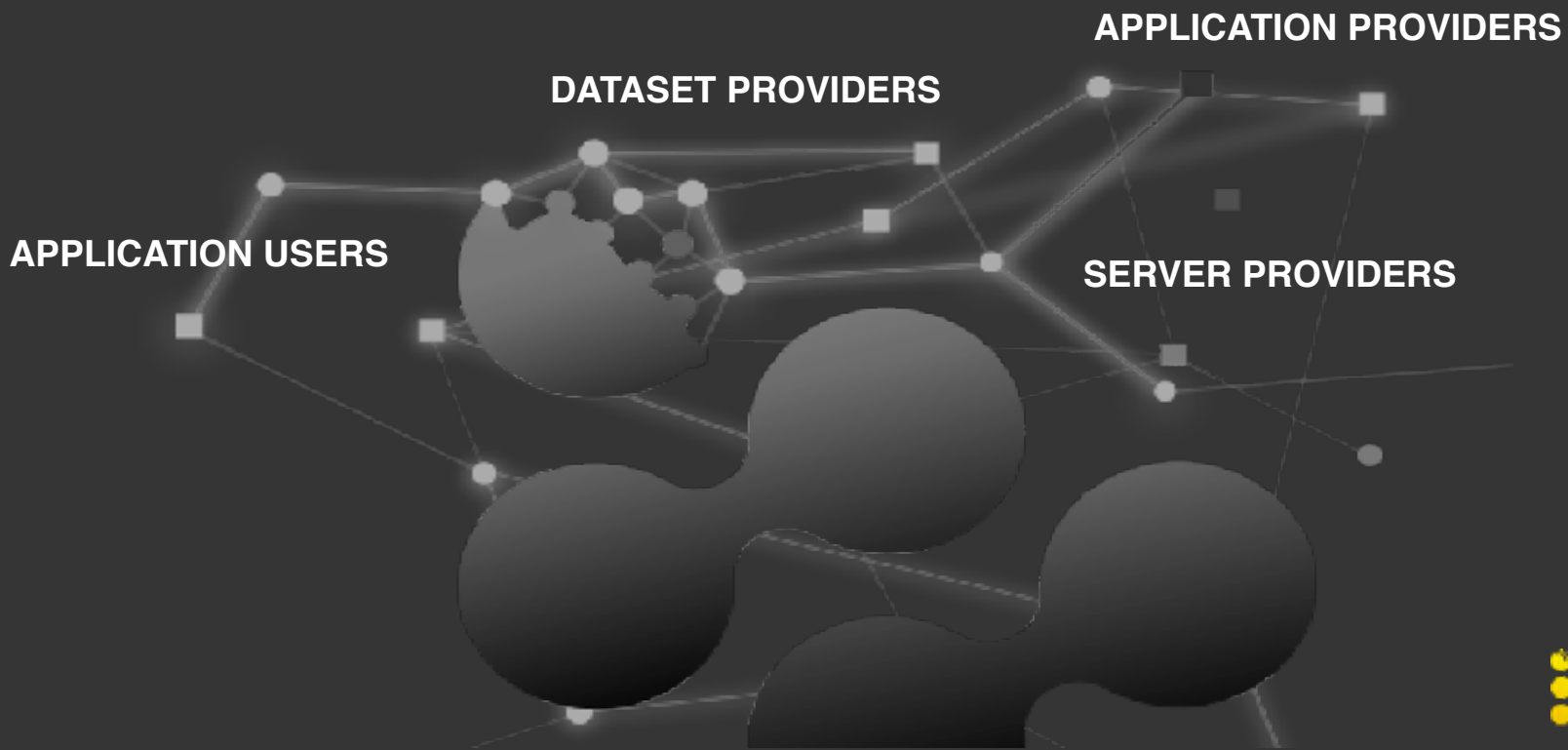
iExec livecoding :
Dapp « Transactions analyser »

@fbranciard

https://.iex.ec

What is iExec ?

A blockchain based marketplace



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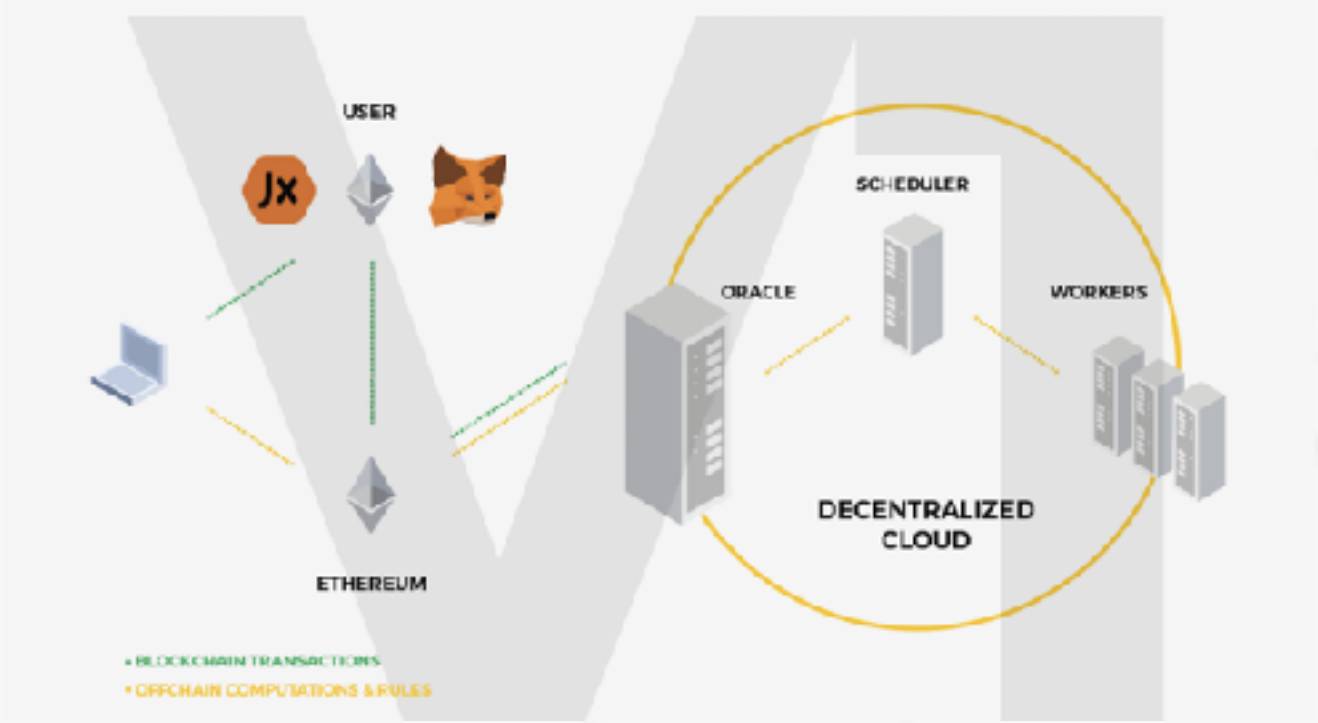
iExec V1


USER
SCHEDULER
ORACLE
WORKERS
DECENTRALIZED
CLOUD
ETHEREUM
• OFFCHAIN COMPUTATIONS & FILES

Dapp « Transactions analyser » whitepaper

- Application User :

A crypto trader analyst

- Application :

Creation of an application that can analyse Ethereum transactions .
Exemple with analyse of ERC20 transfer transactions

- Dataset :

We will target an ethereum node to extract data

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« Transactions analyser » roadmap

- Step 0 :

Init your iExec project

- Step 1 :

Dockerise a app and test it

- Step 2 :

Add a js script to extract transfer transactions

- Step 3 :

Add a R script to analyse data and generate graph

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Step 0 : Init your iExec project

- Install iExec sdk : https://github.com/iExecBlockchainComputing/iexec-sdk

- Fork : https://github.com/iExecBlockchainComputing/iexec-dapps-registry

- Init your project branch from init branch

- Commit and push step-0 to GitHub

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Step 1 : Dockerise an app and test it

- Explore basic project content :

iexec.js
Apps, contract directory

- Renaming your app :

iexec.js
contracts/MyContract.sol

- Create a docker app :

modify iexec.js
docker-image-name = ubuntu
cli arguments = echo HelloFromWorker

- Commit and push step-1 to GitHub

- Test your simple docker app :

iexec init yourBranch —repo yourRepo

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Step 2 : Add a js script to extract transfer transactions

- Create your js App :
- Create a Dockerfile and push it to a public repo
- Update your iexec.js
- Commit and push step-2 to GitHub
- Test your new js app :

iexec init yourBranch —repo yourRepo

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Step 3 : Add a R script to analyse data and generate graph

- Create your R Script :
- Update the Dockerfile and push it to a public repo
- Update your iexec.js
- Commit and push step-3 to GitHub
- Test your new js and r app :

iexec init yourBranch —repo yourRepo

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THANK YOU

iexec-sdk : https://github.com/iExecBlockchainComputing/iexec-sdk

iexec-dapps-registry to fork : https://github.com/iExecBlockchainComputing/iexec-dapps-registry

Transactions analyser :
https://github.com/iExecBlockchainComputing/iexec-dapps-registry/tree/tta

step 0 : https://github.com/iExecBlockchainComputing/iexec-dapps-registry/tree/tta-step0
step 1 : https://github.com/iExecBlockchainComputing/iexec-dapps-registry/tree/tta-step1
step 2 : https://github.com/iExecBlockchainComputing/iexec-dapps-registry/tree/tta-step2
step 3 : https://github.com/iExecBlockchainComputing/iexec-dapps-registry/tree/tta-step3

Website: http://iex.ec

Slack channel beta-testers: http://slack.iex.ec

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