Blockchain-based Decentralized Cloud Computing

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http://iex.ec
Blockchain-Based Decentralized Cloud Computing

- First marketplace for trading computing resources (servers, applications, datasets)
- Providers can interact in a P2P way, without central authority
- Use Ethereum to advertise/provision computing resources

Why Does it Matter?
- Decentralized applications need an infrastructure
- Cheaper, greener, more efficient than traditional centralized Cloud
How Does it Work?

- **FRONTEND**
- **USERS**
- **ETHEREUM**
- **ORACLE**
- **SCHEDULER**
- **WORKER POOL**
- **WORKERS**

**Stages:**
- **BLOCKCHAIN TRANSACTION**
- **OFFCHAIN COMPUTATION**
Why Blockchain is Needed?

Records the deals between participants

- The RLC Token is the only way to access the iExec decentralized cloud
- Allows to build incentives in the network: enforce good behavior

Host the consensus protocol: Proof-of- Contribution

- Consensus protocol for off-chain computation
- Result certification + reputation + staking
- Fully secured, auditable, transparent: allow fair competition between stakeholders.