

An open source Block chain as a service solution for health science applications (Remote presentation)

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The use of big data in the field of omics and biomedical studies is the enabling factor for finding new insights with sufficient statistical confidence. When dealing with such data, several issues have to be addressed, related to the personal identifiable information (PII) often included in datasets and subject to the European General Data Protection Regulation (GDPR), which imposes particular organizational and technical measures, aimed to protect patients' privacy. In this contribution we describe an open-source Blockchain-as-a-service solution, developed and deployed on the INFN Cloud infrastructure, and a health-related decentralized application (DApp) using this service. The main target of this DApp is to manage personal information while preserving patients' rights, thanks to the trusted, tamper-proof, traceable and accountable distributed digital ledger provided by the blockchain.

Primary authors: Dr MARTELLI, Barbara (INFN - CNAF); Dr SALOMONI, Davide (INFN CNAF)

Presenter: Dr MARTELLI, Barbara (INFN - CNAF)

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