MedCo i2b2 Home

Project Name:	MedCo i2b2
Developer/s:	Mickaël Misbach, Joao Sá Sousa, Francesco Marino, Jean-Louis Raisaro, Juan R. Troncoso-Pastoriza, Jean-Pierre Hubaux
Institution/s:	École Polytechnique Fédérale de Lausanne, Switzerland; Lausanne University Hospital (CHUV), Lausanne, Switzerland
Email:	medco-dev@listes.epfl.ch
Repository Location:	https://medco.epfl.ch/software
i2b2 Components:	i2b2 core server
Keywords:	Privacy, Security, Collective protection, Homomorphic Encryption, Secure Computing

Project Summary:

MedCo is the first operational system that makes sensitive medical-data available for research in a **simple, privacy-conscious and secure way**. It enables hundreds of clinical sites (with or without an i2b2 installation) to federate and collectively protect their data for securely sharing them with researchers, without single points of failure.

MedCo builds on top of an i2b2 core installation and i2b2 data model and transparently provides advanced privacy-enhancing techniques, such as:

- Collective homomorphic encryption;
- Secure distributed protocols;
- Differential privacy.

The MedCo software, its deployment Docker images, and further information about the technology, the software, and peer-reviewed papers describing the system and its formal privacy and security guarantees can be found at: https://medco.epfl.ch

---

Search this documentation

Popular Topics

- install-guide
- installguidepage
- service
- pm_cell
- request
- response
- ont_cell
- i2b2
- work_cell
- authentication

Featured Pages

Content by label

There is no content with the specified labels

Recently Updated Pages

MedCo i2b2 Home
Oct 24, 2019 • updated by Jean Louis Raisaro • view change

MedCo i2b2 Home
Oct 24, 2019 • updated by Mickaël Misbach • view change

MedCo i2b2 Home
Oct 23, 2019 • updated by Juan Troncoso-pastoriza • view change

MedCo Home
Oct 23, 2019 • updated by Juan Troncoso-pastoriza • view change

MedCo Home
Oct 23, 2019 • updated by Jean Louis Raisaro • view change