



Contribution ID: 67

Type: **Presentation**

Sync & Share self service provisioning on INFN Cloud

Monday, 6 March 2023 16:00 (15 minutes)

Following up on 20 years of successful development and operation of the largest Italian research e-infrastructure through the Grid, the Italian National Institute for Nuclear Physics (INFN) has been running for the past three years INFN Cloud, a production-level, integrated and comprehensive cloud-based set of solutions, delivered through distributed and federated infrastructures.

INFN Cloud provides a large and customizable set of services, ranging from simple IaaS to specialized SaaS solutions, centered through a PaaS layer built upon flexible authentication and authorization services offered via INDIGO-IAM, and optimized resources and services orchestration.

Sync & Share instances based on ownCloud or NextCloud are among the several applications and services that users can self-deploy via the INFN Cloud dashboard.

Besides giving a general overview of INFN Cloud and its federated model, this talk will describe how the deployment of Sync & Share services for small to medium sized communities is fully automated. We will show how added-value features are integrated: a geographically distributed S3 storage backend, automated database and configuration backup, dedicated resource monitoring, secure connections and centralized authentication/authorization. We will also describe how INFN Cloud may provide a dedicated solution for supporting sensitive data privacy that exploits end-user level encryption of the storage block devices, used by ownCloud or NextCloud to store user data.

Primary authors: ALKHANSA, Ahmad; Dr COSTANTINI, Alessandro (INFN-CNAF); ITALIANO, Alessandro; MARTELLI, Barbara; PELLEGRINO, Carmelo; MICHELOTTO, DIEGO (INFN - National Institute for Nuclear Physics); CESINI, Daniele (Universita e INFN, Bologna (IT)); SPIGA, Daniele; SALOMONI, Davide (Universita e INFN, Bologna (IT)); CIANGOTTINI, Diego (INFN, Perugia (IT)); DUMA, Doina Cristina (INFN); GIORGIO, Emidio Maria (INFN LNS); FANZAGO, Federica (Universita e INFN, Padova (IT)); SINISI, Francesco; DONVITO, Giacinto (INFN-Bari); PECO, Gianluca (Universita e INFN, Bologna (IT)); CARBONE, Luca Giovanni; STRIZZOLO, Lucio (INFN - National Institute for Nuclear Physics); VERLATO, Marco (Universita e INFN, Padova (IT)); ANTONACCI, Marica (INFN); SGARAVATTO, Massimo (Universita e INFN, Padova (IT)); FOGGETTI, Nadina; TRALDI, Sergio; STALIO, Stefano; CIASCHINI, Vincenzo; SPINOSO, Vincenzo (INFN)

Presenter: STALIO, Stefano

Session Classification: Site Reports

Track Classification: Main session: CS3 Community Site Reports