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Evolving storage services at INFN-T1

Thursday 3 November 2022 11:15 (25 minutes)

INFN CNAF is the National Center of INFN (National Institute for Nuclear Physics) for research and development in the field of information technologies applied to high energies physics experiments. CNAF hosts the largest INFN data center, which also includes a WLCG Tier1 site.

We describe the technologies adopted at CNAF for Data Management and Data Transfer, namely XrootD and StoRM (with its StoRM WebDAV service), and the way our services are evolving in a worldwide context of new protocols and authorization approaches for bulk data transfers between WLCG sites.

In particular, we report on the challenging transititon from gsiftp to http protocol, which has been implemented via StoRM WebDAV for several experiments hosted at CNAF, and on the ongoing transition from X.509 certificates to JSON Web Tokens (JWT), allowing users to access the resources in a more fine-grained way.

Also, we detail on a few issues our daily management of storage services has brought to light.

Desired slot length

Speaker release

Yes

Presentation will be held...

in the conference venue

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Session Classification: Storage and Filesystems

Track Classification: Storage & Filesystems