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Token-based authorization in the StoRM WebDAV service

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Support for token-based authentication and authorization has emerged in recent years as a key requirement for storage elements powering WLCG data centers. Authorization tokens represent a flexible and viable alternative to other credential delegation schemes (e.g. proxy certificates) and authorization mechanisms (VOMS) historically used in WLCG, as documented in more detail in other submitted contributions to this conference.

In this contribution, we describe the work done to enable token-based authentication and authorization in the StoRM WebDAV service, describing and highlighting the differences between support for external OpenID connect providers, group-based and capability-based authorization schemes, and locally-issued authorization tokens.

We also discuss how StoRM WebDAV token-based authorization is being exploited in several contexts, from WLCG DOMA activities to other scientific experiments hosted at the INFN Tier-1 data center.

Consider for promotion

No

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