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User sharing of computational workflows in the REANA reproducible analysis platform

We present the new user-sharing feature of the REANA reproducible analysis platform. The researchers are allowed to share their selected workflow runs, job logs, and output files with colleagues. The analyst retains the full read-write access to the workflow and may opt for granting individual read-only access to colleagues for a possibly-limited period of time. The workflow sharing feature was developed to answer the needs of physics teams using REANA computational workflow platform and is available for all supported CWL, Serial, Snakemake, and Yadage workflow systems. The feature is available in the REANA command-line client and on the REANA web interface. The contribution describes the main use cases, presents the architecture and the implementation details, as well as comments on the challenges of supporting a variety of external Identity and Access Management systems holding user information for customising REANA deployments.

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