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Real-Time Workflow and Application with High Performance by Cloud Security Enabled HPC for On-Demand Activity Calculations for HIPA

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Scientific computing including accelerators, detectors and experiment automation requires large computer resources, therefore running these simulations on HPC is leading to rapid growth.

Nowadays, academic research projects and industrial platform solutions proposed infrastructures allow remote high-performance capacity for simulations and data analysis in security. However, these on-demand cloud services explore cloud security leakage and performance degradation issues.

The Vis-aS project proposes an efficient workflow, cloud security enabled HPC and data storage to provide the high-performance and security-enabled environment for the Vis-aS project, which has a web application used for activity calculations for the high-intensity proton accelerator (HIPA) at Paul Scherrer Institute (PSI).

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