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SWAN: Status, Custom Environments, and Cloud Integration

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SWAN (Service for Web-based Analysis) is CERN's cloud-based platform that streamlines scientific data analysis and collaboration by offering users an integrated Jupyter-based environment with seamless access to resources such as EOS/CERNBox and CVMFS. In this talk, we will present the current state of the project and highlight the advancements made in 2024 to address new use cases. These include enabling user-defined custom software environments without requiring pre-built container images, as well as exploring and evaluating diverse approaches to integrate with external clouds and services, enhancing SWAN's flexibility and scalability for modern scientific workflows.

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