



Contribution ID: 87

Type: **Presentation**

Jupyter on Earth: how SWAN is powering CERN use cases

Tuesday, January 28, 2020 11:20 AM (20 minutes)

SWAN (Service for Web-based ANalysis) is CERN's general purpose Jupyter notebook service. It offers a preconfigured, fully fledged and easy to use environment, integrates CERN's storage, compute and analytics services and is available at a simple mouse click.

Due to this simplicity, the Jupyter usage via SWAN has been steadily increasing at CERN in the last years (more than 2000 unique users in last 6 months).

The 1st SWAN User Workshop - held on October 11, 2019 - was the first opportunity to get the overview of the CERN's user community, to discover typical and unexpected use-cases, discuss user feedback, new features and further evolution of Jupyter Notebooks at CERN. Overall, 19 presentations from the users covered a rich set of topics: Data Analysis for the LHC Experiments, Beams operations, Engineering applications, Education & Outreach use-cases and others. SWAN is a member of the CS3 community, has been deployed outside of High Energy Physics and is being integrated into the new, pan-European research cloud service.

In this presentation we will give a summary of present experience and future evolution of SWAN both at CERN and in a larger context.

Primary authors: CASTRO, Diogo (CERN); MOSCICKI, Jakub (CERN); BOCCHI, Enrico (CERN); TEJEDOR SAAVEDRA, Enric (CERN); KOTHURI, Prasanth (CERN); MROWCZYNSKI, Piotr (CERN)

Presenter: CASTRO, Diogo (CERN)

Session Classification: Fabric and platforms for Global Science

Track Classification: User Voice: Novel Applications, Data Science Environments & Open Data