



Contribution ID: 56

Type: 15 Minutes

ScienceBox 2.0: From EOS Storage to Jupyter notebooks in Kubernetes

Monday 7 March 2022 12:05 (20 minutes)

This contribution reports on the recent revamping of ScienceBox: The container-based stack for science with EOS, CERNBox, and SWAN services for Kubernetes-orchestrated clusters.

ScienceBox has been rebuilt from its foundations using modern cloud-native technologies for better service configuration and improved reliability, without compromising on deployment flexibility. Rethinking the whole package also allowed for better alignment of the production services at CERN with their container-based version.

Sciencebox has been tested and deployed on a variety of infrastructures, ranging from tiny deployments on developers' laptops to container orchestration platforms on commercial cloud providers with GPU accelerators and 100s of TBs of storage.

Primary authors: BOCCHI, Enrico (CERN); ALFAGEME SAINZ, Samuel (CERN); BROSIA IARTZA, Aritz (CERN); LEKSHMANAN, Abhishek

Presenter: BOCCHI, Enrico (CERN)

Session Classification: EOS 3

Track Classification: Sites and Deployments