ENVRI-Hub NEXT

D13.2

Containerised Analytical Runtime Environment

Status: Final

Dissemination Level: Public

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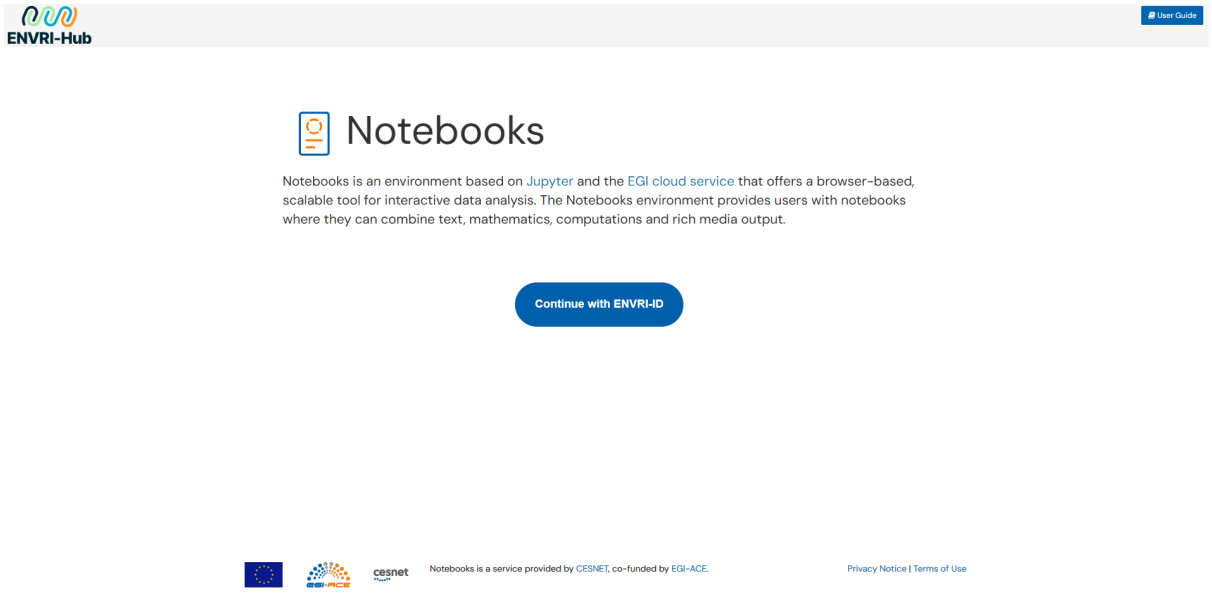
The Analytical Runtime provides ENVRI-Hub developers and early users with a testbed environment in which they are able to safely test data access procedures, analytical workflows and individual scientific software components, including computationally demanding ones, thanks to elastic scaling mechanisms. The Analytical Runtime is also the environment in which research software artefacts produced by ENVRI-Hub-Next are validated. The environment is based on the well-known JupyterHub solution, and it provides a base of services shared across all widely adopted Virtual Research Environments (such as D4Science and the Lifewatch VRE), meaning that code that runs in the Analytical Runtime can successfully run on all major VRE solutions as well, with no need for refactoring. Vertical VREs might provide their users with more functionalities than the Analytical Runtime, but such functionalities will not be required to run ENVRI-HUB products, allowing all ENVRI RIs to use them without modifying their existing VREs or re-configuring them.

The Analytical Runtime can be accessed at https://vre.staging.envri.eu/hub/spawn.

Any RI can scrutinise the installation and replicate it by running the Dockerfile available at the following address:
https://github.com/EGI-Federation/egi-notebooks-images/tree/master/single-user.