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Introducing the German EOSC pilot node

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The German National Research Data Infrastructure (national Forschungsdateninfrastruktur, NFDI) comprises over 270 institutions, including science organisations, universities, higher education institutions, non-university research institutions, scientific societies, and associations. It is organized in 26 consortia, five sections, and one basic services initiative whose vision is that data is a common good for excellent science. Sustainability and FAIRness are key factors when it comes to preserving data that has been acquired over time by scientists in laborious and eventually costly efforts.

The represented multitude of scientific disciplines and institutions in NFDI and EOSC Beyond make it a fitting audience to set up a pilot node for EOSC. Leveraging the knowledge and experience of the people behind the Helmholtz cloud, the node is not being built from scratch but on the shoulders of the community and with an infrastructure that has been tried and tested. The node itself will be built from existing building blocks such as an AARC-compliant AAI architecture, providing access to services hosted in a federated manner all over Germany to the members of the NFDI consortia and their partners. A service catalogue and corresponding marketplace will not only serve as a common entry point for all scientists but also make it easy for institutions to integrate new services for the community.

There are several services planned initially, e.g. an OpenData portal that will be built in collaboration with the consortium DAPHNE4NFDI for the photon and neutron community, an ontology catalogue stemming from the needs of NFDI4ING for the engineering community as well as a JupyterHub instance deployed by BASE4NFDI who engage in providing base services to NFDI. In the talk, we will present the planned architecture of the German NFDI EOSC pilot node together with the existing components that will be subsequently connected within EOSC Beyond's timeframe. A short introduction of the initial services will conclude the presentation.

Topic

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