

A framework for the Research Data Commons infrastructure

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A framework and set of rules for the Research Data Commons is being developed in Task Area 4 Measure 5 - Governance and Monitoring. The measure deals with the non-technical issues of the Research Data Commons as an overarching service architecture. In this way, we are preparing the ground for the subsequent operation of a scientific data platform to which many different data and service providers can contribute. Non-technical topics include basic participation rules for resource providers, agreements on quality assurance and uniform access to services as well as processes for good decisions on technical innovations and forms of collaboration. The work in TA4M5 is linked to the joint development of the infrastructure in the overall NFDI, specifically to working groups in the section Common Infrastructures and the IAM4NFDI basic service.

Partner institutions involved in TA4M5

- Bielefelder Institut für Bioinformatik Infrastruktur (BIBI)
- Gesellschaft für Biologische Daten e.V. (GFBio)
- Gesellschaft für wissenschaftliche Datenverarbeitung mbH (GWDG)
- Leibniz-Institut für Pflanzengenetik und Kulturpflanzenforschung Gatersleben (IPK)
- Universität Gießen
- Universität Marburg

Authentication and Authorization Infrastructure 4all



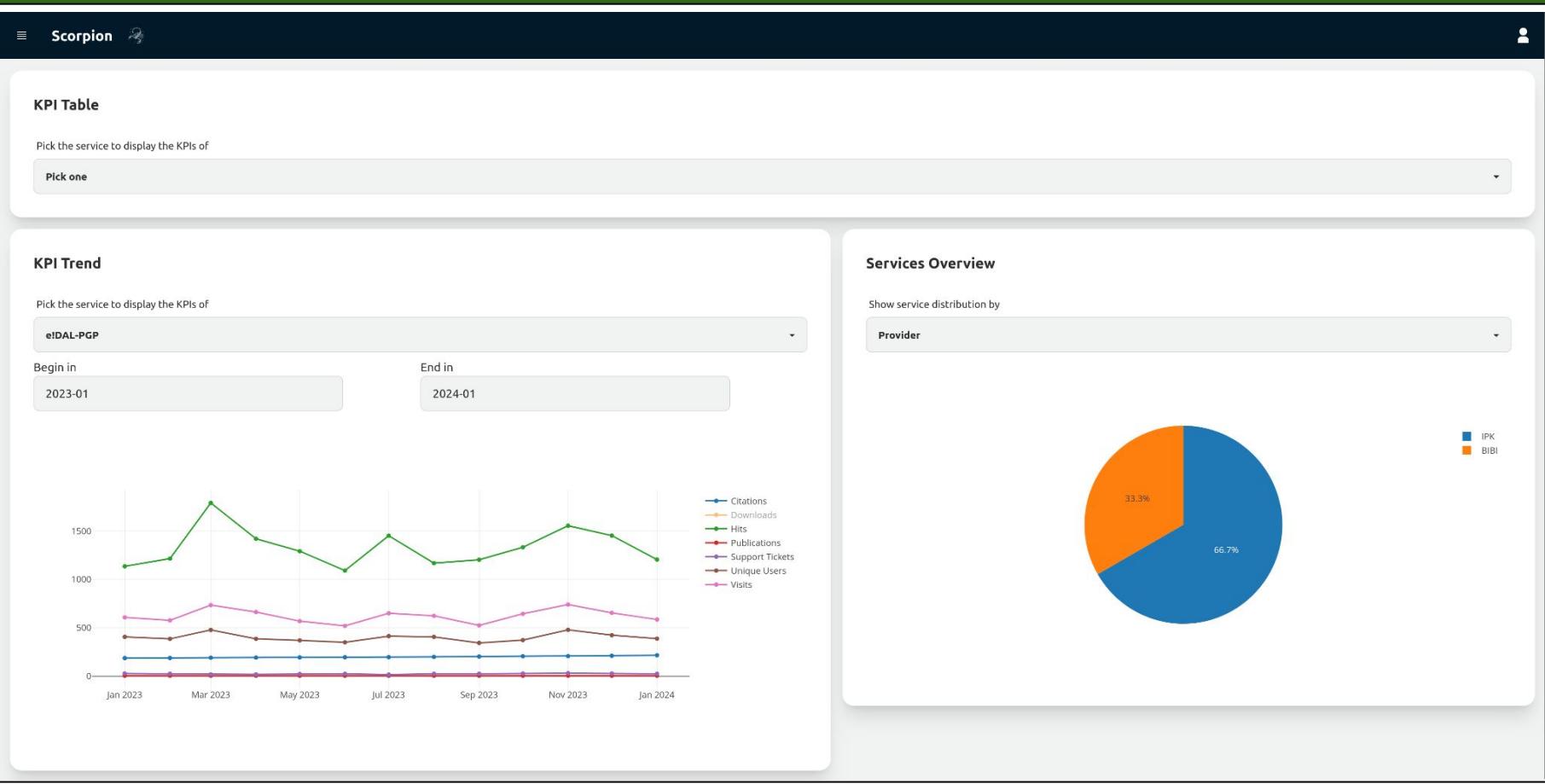
Status: Scoping the options

Life Science Login should be supported as a login method by all services in the RDC. The GFBio SSO that has been used to date, as well as some other services, already support this. We are in contact with IAM4NFDI to discuss how Life Science Login could be integrated into the proposed architecture of the basic service. In addition, we held a workshop on authorization with Life Science Login to learn about the capabilities of the system and example use cases. We also developed first ideas how central authorization management can be implemented in services.

Next step: AAI report & concept

We will compile a report that outlines how authentication and authorization should work in NFDI4Biodiversity and how it can be integrated into the architecture proposed by the IAM4NFDI basic service. The report will be written in collaboration with members of IAM4NFDI. The final report will be shared with the section Common Infrastructures. Furthermore, we will develop a plan how the “NFDI4Biodiversity AAI” could evolve in a possible second funding phase of the consortium.

Control Center Technical Infrastructure: A dashboard for service KPI



Status: Prototype

Based on previous work in de.NBI, the “Scorpion” tool was developed for key performance indicator (KPI) monitoring. A first version of the tool is running in the de.NBI cloud and accepts regular KPI reports by three services. The tool was presented in the NFDI Task Force Evaluation and Reporting.

Next steps: Roll out in 2024

Service KPI are part of the data factsheet to be submitted with the renewal proposal in August 2024. Scorpion will be used as technical basis for collecting KPI from all services in the NFDI4Biodiversity service catalog. As service KPI are important across NFDI, the tool may be relevant for other consortia as well.

Rules and responsibilities for resource providers in the RDC



Status: Set of principles

We support the provision of data according to the FAIR principles. We value machine-readability and the provision of data under CC-0 and CC-BY licenses. We request information on the development status and sustainability of tools and encourage the use of common registries like bio.tools or EOSC Marketplace.

Next step: Data and service provider policy

The groundwork laid in our three resource provider workshops will be formalised in a policy for the consortium.

ALL HANDS
Conference

24.-26.04.2024
Munich



More posters & publications can be found in the NFDI4Biodiversity Zenodo community: www.zenodo.org/communities/nfdi4biodiv