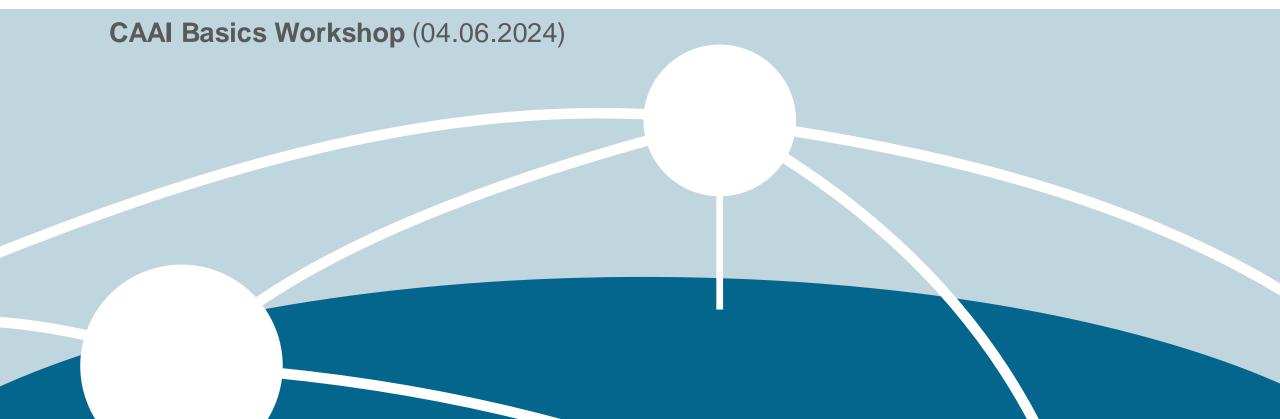




IAM4NFDI – Exemplary Incubator Project

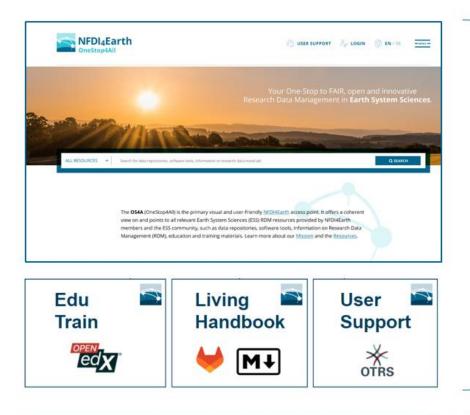
Integration of NFDI AAI to Open edX



Background



Learning Management
System (Open edX)
is 1of 6 core services within
NFDI4Earth



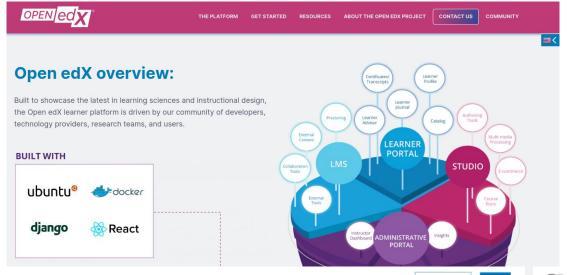
Humanreadable interface(s)



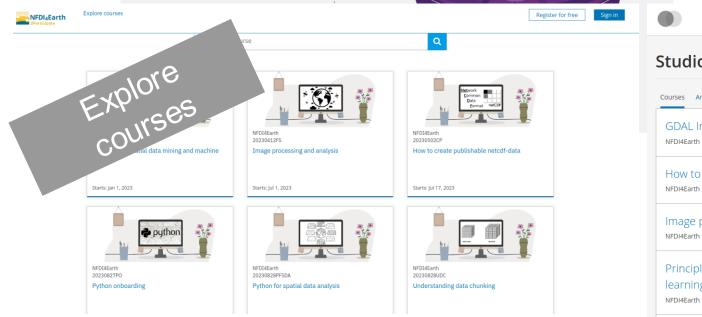
Machinereadable interface

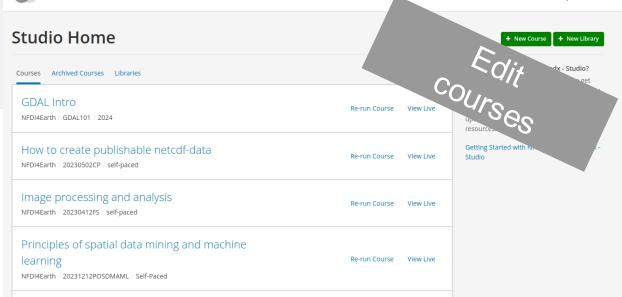
Background





- Login is obligatory
- 2 user groups
 - Users
 - → many and heterogeneous
 - Authors
 - → different institutions





Help rk

Process of the incubator project

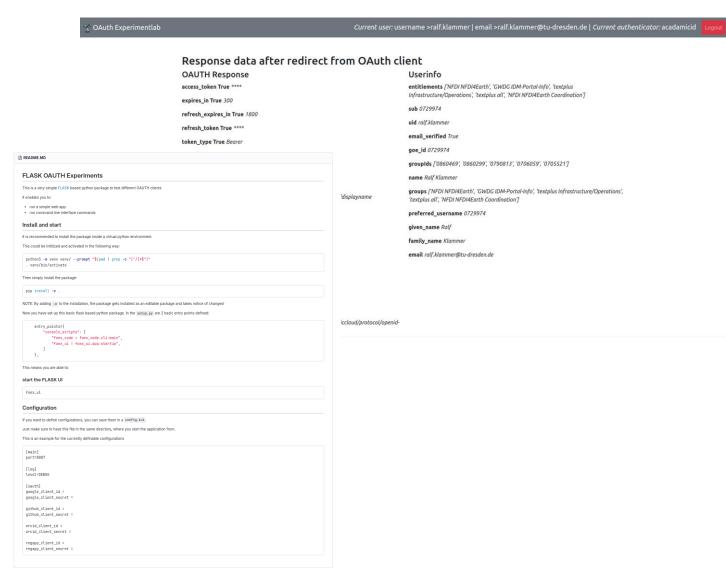


- Goals:
 - Getting first impression of IAM4NFDI
 - Test usability and features of available Community AAIs
 - Find out how to decide between Community AAIs
- 3 major steps
 - 1. Test authentication process
 - 2. Test handling of Virtual Organizations
 - 3. Decide for one Community AAI

Step 1 - Authentication – Testapp



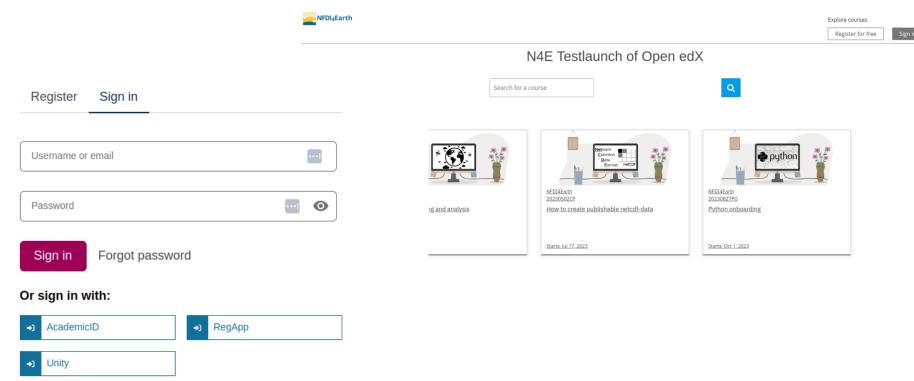
- Applied for OAuth-Client at 3 of 4 CAAIs (Unity, RegApp & AcademicID)
- Simple Flask Application to learn and test
 - "How to authenticate in general"
 - "How to authenticate via each CAAI"



Step 1 - Authentication - Open edX



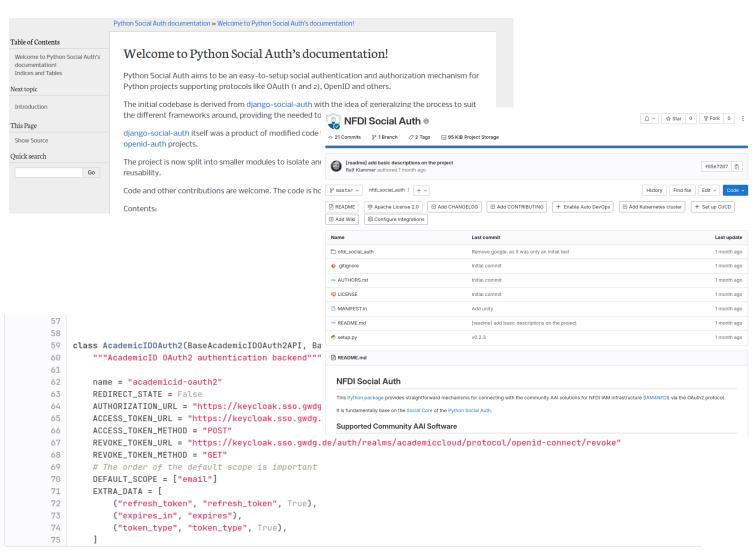
Integrated 3 of the 4 CAAIs



Step 1 - Authentication – Python Social Auth



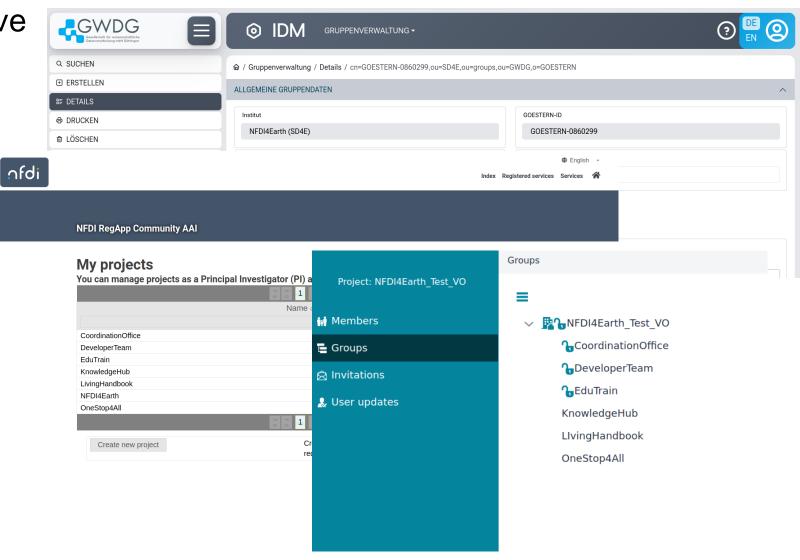
- Open edX based on Django
- makes use of "Python Social Auth" mechanism
- Simple integration of CAAIs
 - third party auth provider
 - via tutor plugin
- Supplement:
 - reusable python classes
 based on "Python Social Auth"



Step 2 - Virtual Organisations



- Applied for administrative Accounts
- Tested
 - Handling of UI
 - Effect on
 "authentication
 attributes "



Step 3 – Decision on CAAI



- Find objective decision on 1 of the 3 tested CAAIs
- Comparison matrix with rating 1-5
- Decision process within consortium:
 - 1. Recommendation for one CAAL
 - 2. Proof of recommendation via internal group (responsible for "software decisions")
 - 3. Final decision via steering group

IAM4NFDI @ NFDI4Earth

Empfehlung zur Entscheidung für eine der angebotenen AAI Lösungen

Grundlage

- IAM4NFDIa.k.a. "Identity and Access Management for the German National Rese Infrastructure"
- Schafft Voranceatzingen dass Niitzende ans interschiedlichen Diszinlinen Kons

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Wrap up

NFDI₄Earth

- Getting first impression of IAM4NFDI
- Test usability and features of Community AAIs
- Find decision process
- Decide for one Community AAI







Thank You!





https://www.nfdi4earth.de/



through project no. 460036893 within the German National Research Data Infrastructure (NFDI, https://www.nfdi.de/).