



## HIFIS transfer service: FTS for Helmholtz

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@ Deutsches Elektronen-Synchrotron DESY for HIFIS

EGI conference, 20<sup>th</sup> October 2021

Helmholtz aims for **joint research & information environment** for all Research Fields

**HiDA**  
& Schools


**HiP** | HELMHOLTZ  
IMAGING  
PLATFORM

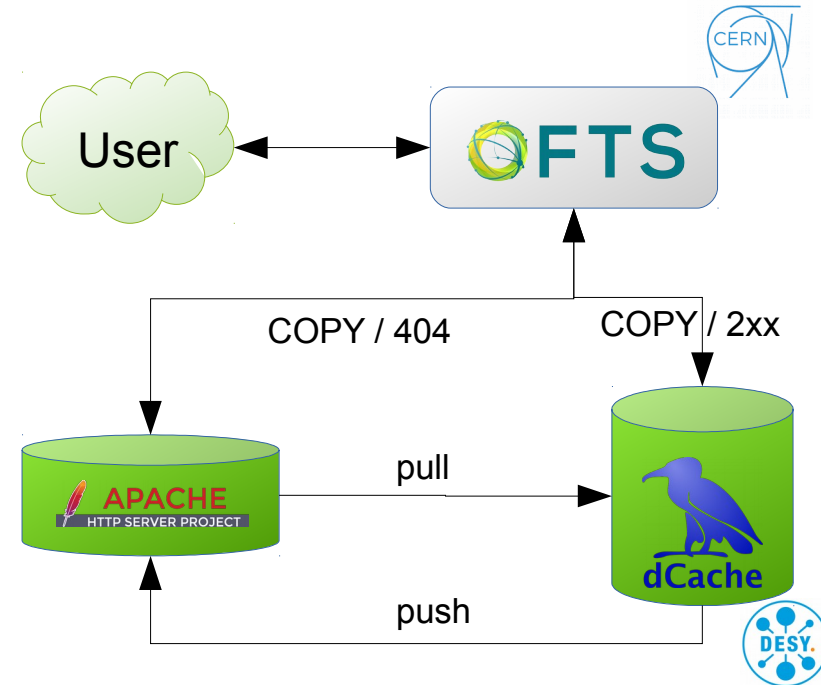
**HELMHOLTZAI**

Helmholtz  
Information & Data  
Science Incubator

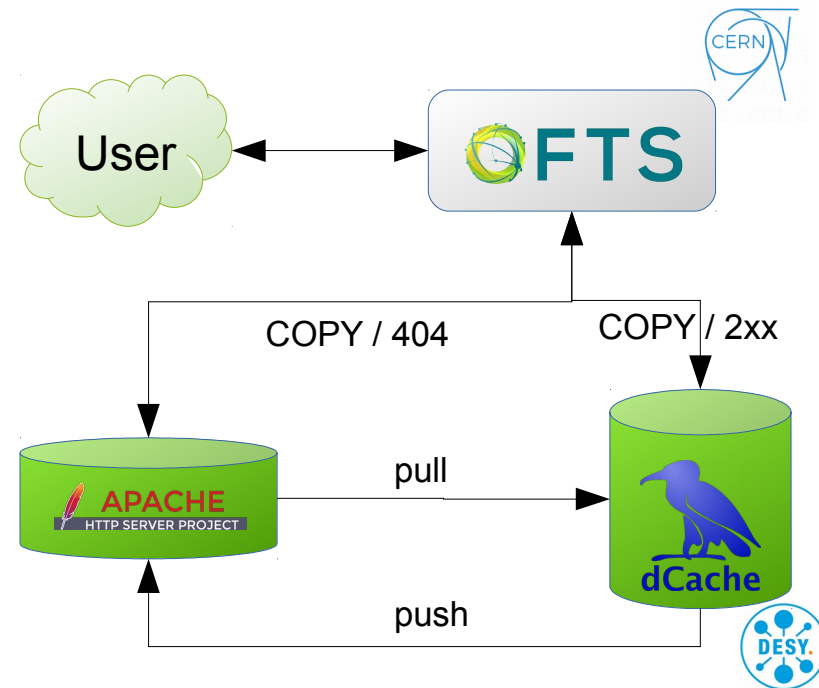
**<HMC>**

 **HIFIS**

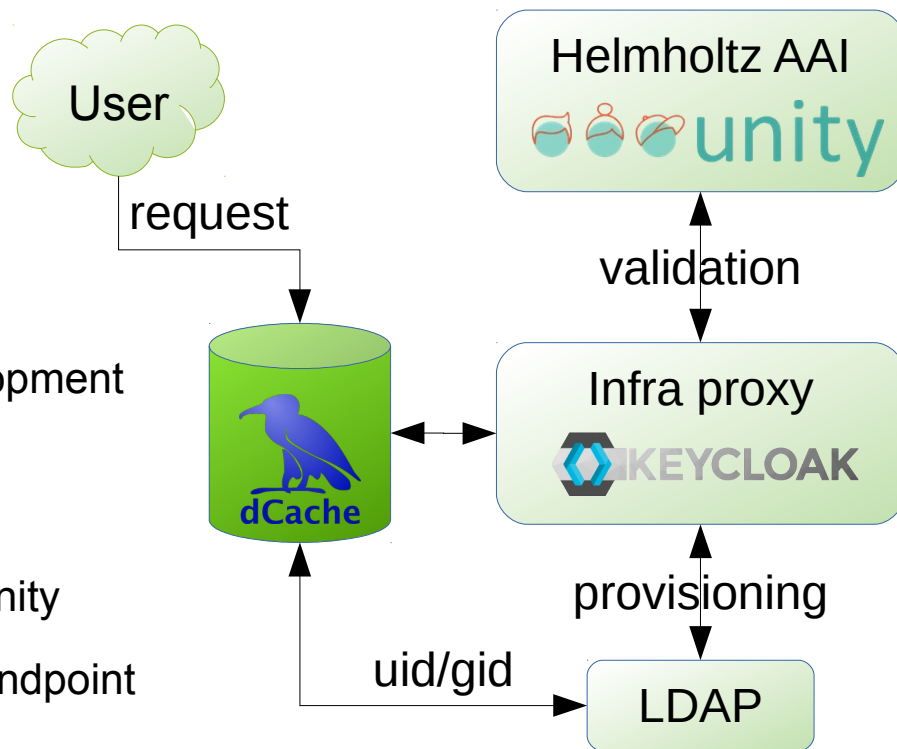
- Core service in **HIFIS** backbone
  - CERN's **FTS3** as backend
  - **webFTS** as comfortable WebUI
  - **FTS3-REST** as CLI for scripted transfers
  - Planned:  **RUCIO** for policy driven transfers
- ➔ Apache httpd as **passive** endpoint
- ➔ **Lightweight** solution for ad-hoc transfers



- Apache endpoint is being tested further
- Improvements
  - Setup scripts
  - Documentation
- **webFTS** instructional video prepared
- Direct access to FTS3 public endpoint with HelmholtzAAI possible
  - Allows scripting transfers via Python bindings or Rest-API



- Central data repository
  - Requested by HIP
  - DCache @ DESY
  - OIDC-Capabilities
  - Automated user provisioning in development
    - ➔ Connection between Keycloak, HelmholtzAAI and DESY-LDAP
- Setup shows how to connect a community
- ➔ Process to be integrated into Apache endpoint



- Presented service at
  - HEPiX conference 2020, 14<sup>th</sup> October 2020
  - EGI conference 2020, 3<sup>rd</sup> November 2020
  - WLCG DOMA working group, informal tests with P.Millar
  - International Symposium on Grids and Clouds 2021, 24<sup>th</sup> March 2021
  - HPC.NRW WG Data transfers between HPC centres, 27<sup>th</sup> July 2021
- Updates are published on <https://www.hifis.net/news/>
- Contact us via [support@hifis.net](mailto:support@hifis.net) or <https://www.hifis.net/contact.html>

## Summary & Outlook

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- Central data repository set up
  - Searching for users/clients
  - Improved setup possibilities for apache endpoint
  - Tested transfers between various pilot endpoints
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- Automated user provisioning to be implemented into Apache endpoint
  - Evaluation of Rucio for sharing data in Helmholtz

All information (including git repository links) available on

<https://www.hifis.net/use%20case/2021/06/07/use-case-hts.html>



# HIFIS

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**Thank you! Questions?**

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