Status update of the Jülich LOFAR LTA

13.11.2024 I ARPAD MISKOLCZI

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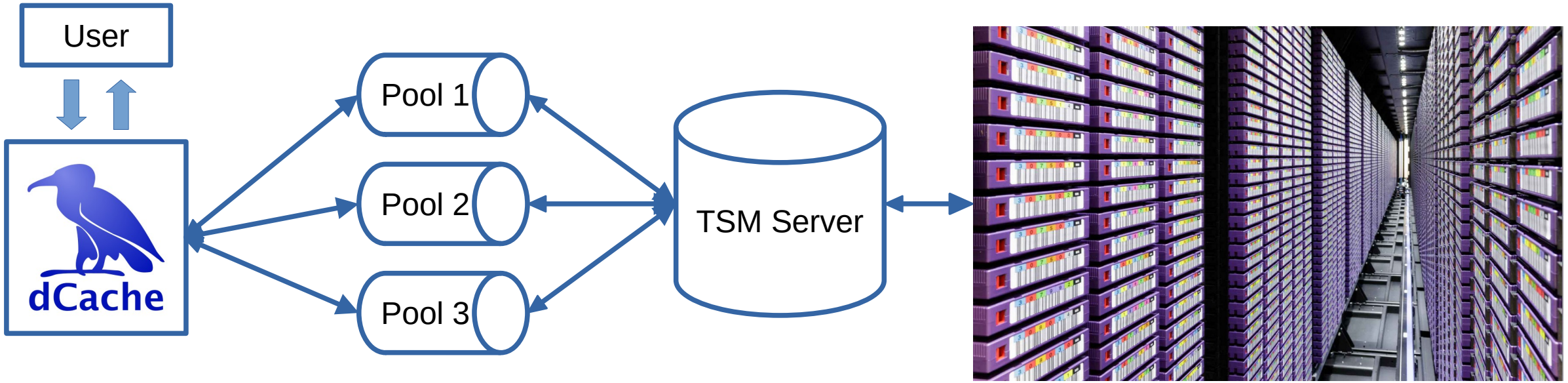
The Jülich Long-Term Archive

- Receives data to a pool system (dCache) → writes it to tapes for long term storage
- Reads data from tape, writes to pools → User can download data

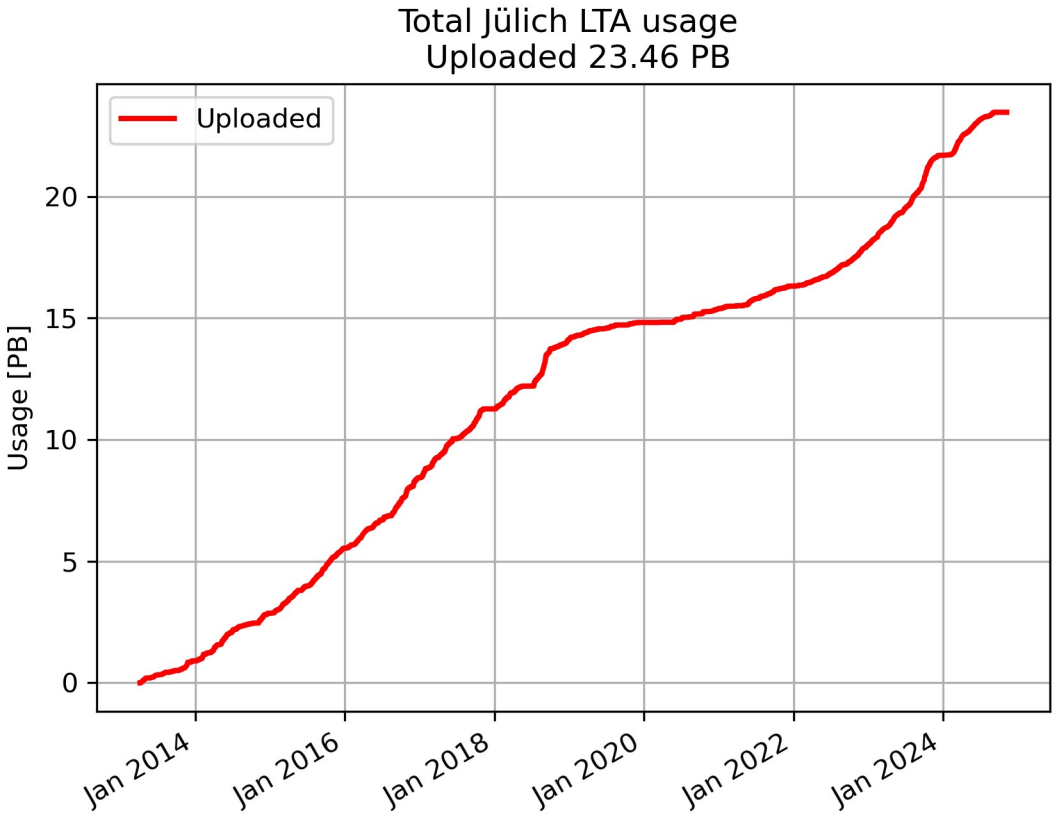


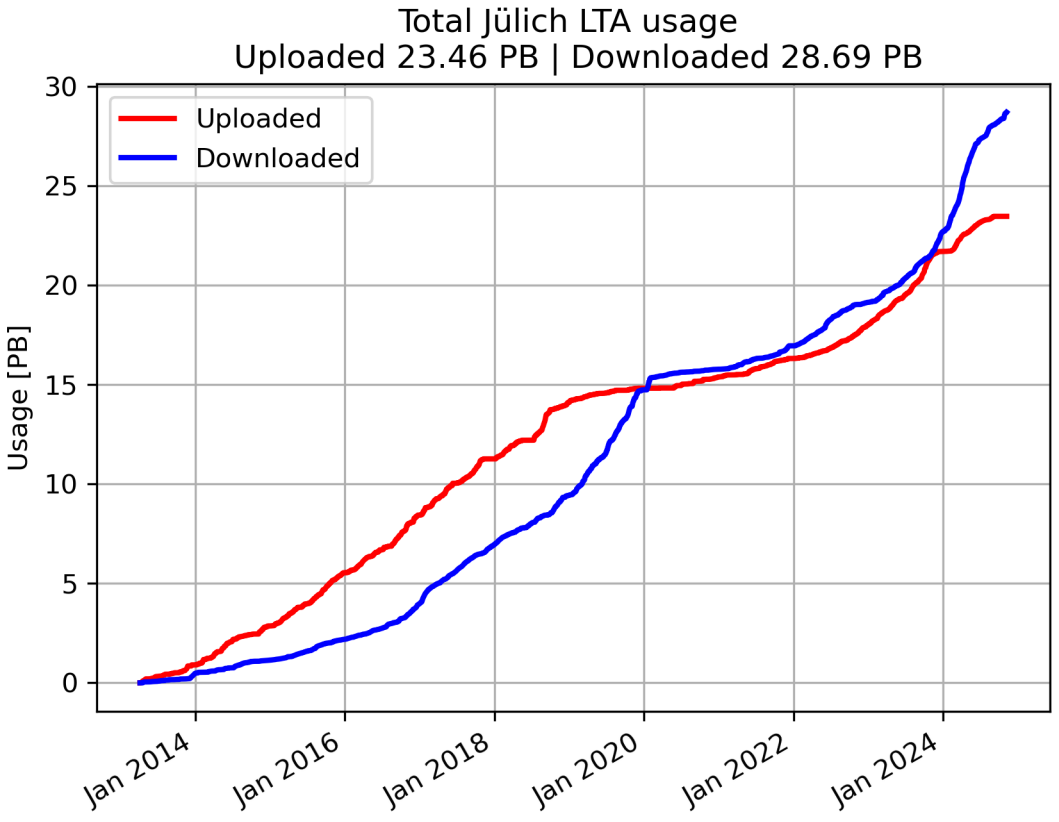
Past activities

- Upgraded dCache to 9.2
- Replaced the old download-server with new one
  - New one uses WebDAV, replacing SRM (GridFTP), for data transfer and streaming
- Used WebDAV with macaroons to provide access to “Early Data Deletion” – data
  - Worked like a charm
- Retired two old pool servers and replaced by two new servers
  - Removed ~ 200 TB of cache space, added ~ 900 TB

Total usage update

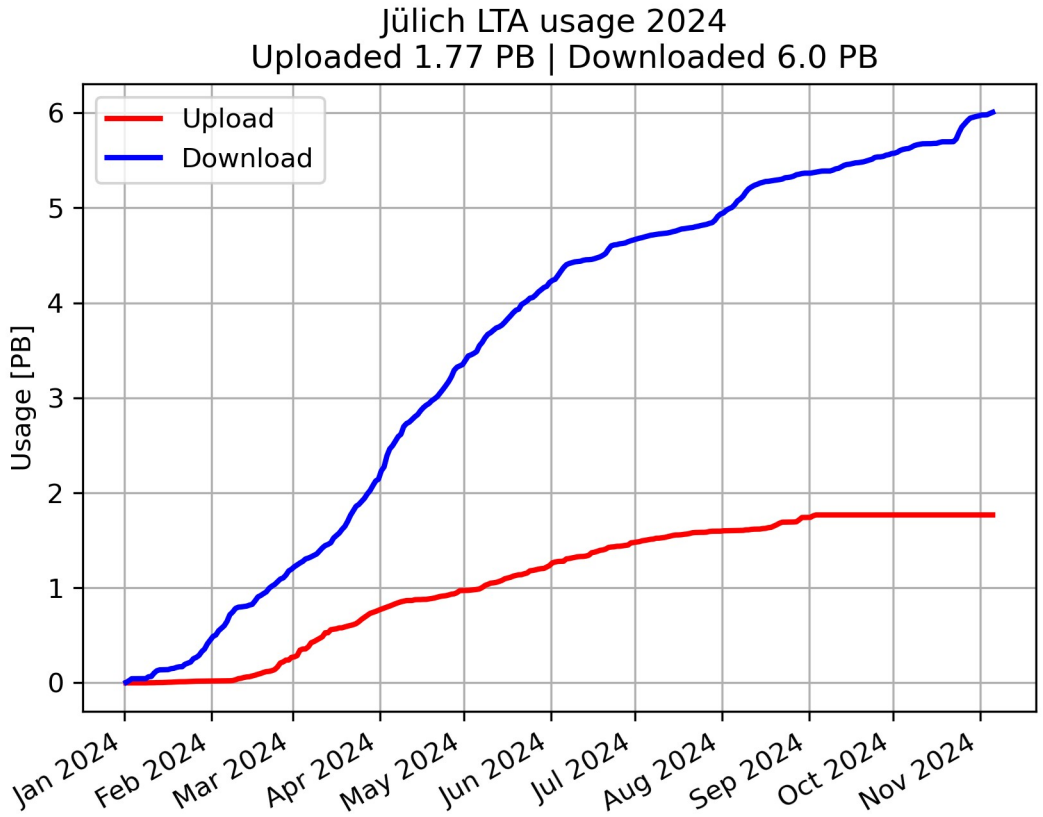
- As of mid November 2024 the LTA stores about 23.5 PB of LOFAR data.
- A total of 28.7 PB has been downloaded

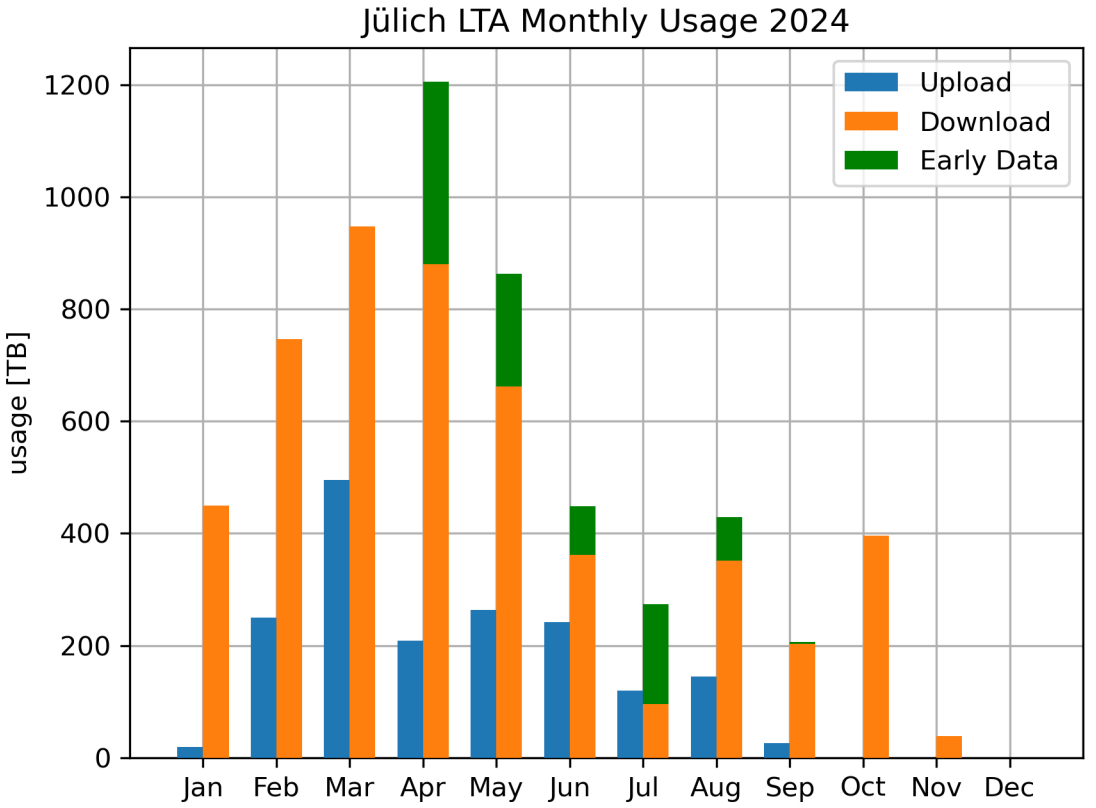




Usage update 2024

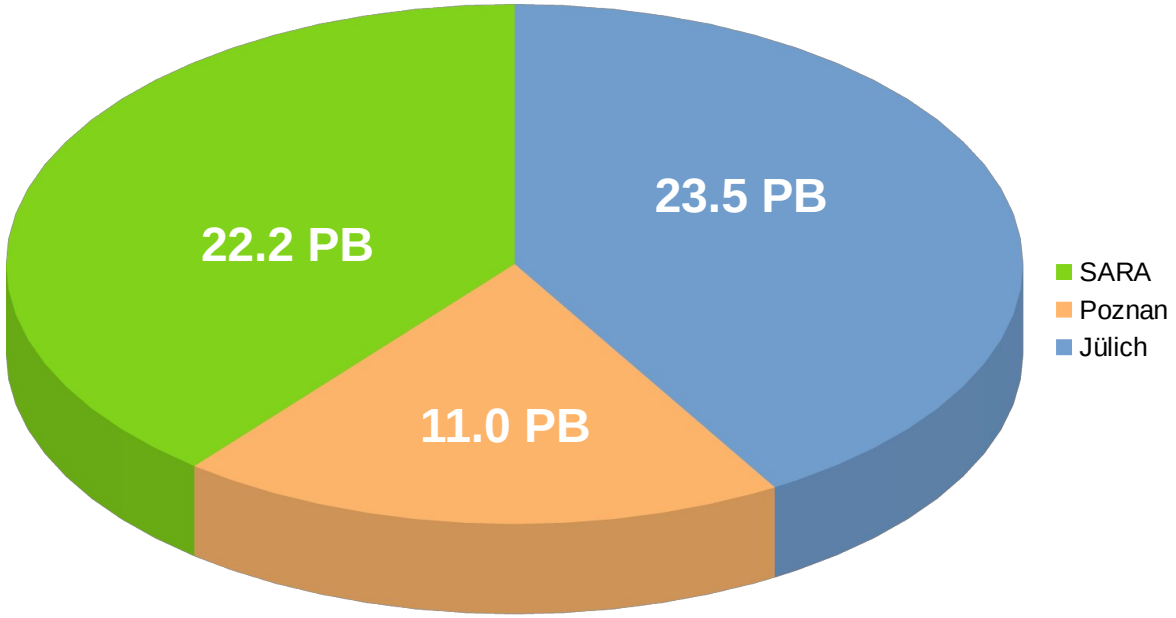
- As of mid of November 2024 the LTA stored about 1.77 PB of new LOFAR data and about 6 PB were downloaded
- 872 TB of Early Data





The Jülich Long-Term Archive

- As of November 2024 Jülich stores ~41% of all LOFAR data (56.7 PB)
- Jülich now possesses the largest chunk of LOFAR data
- ~ 6.4 million files, between a few MB to a few hundred GB in Size



Ongoing and future activities

- “Early Data Deletion” Data to be deleted next year
- No ingests planned due to Lofar 2.0 upgrade
- House keeping like deleting duplicate files, broken files etc.
- LDV

Questions?