JADE

- JADE:
  - Jülich Aachen Data Exchange
- SMHB:
  - Helmholtz Portfolio Theme
    Supercompitung and Modeling for the Human Brain

Logo

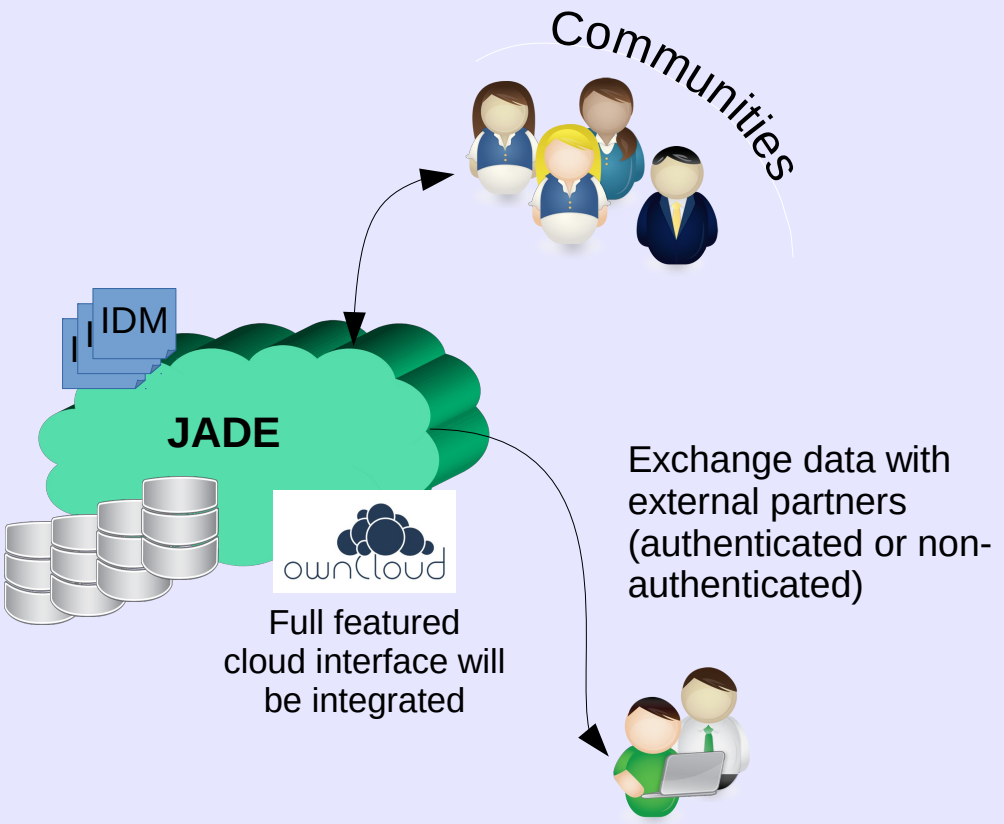
Overview

- JADE implements a distributed dCache installation suited to the needs of the tasks of the SMHB and affiliated projects like the HBP and JARA
- It aims to i) satisfy generic demands for exchanging huge amounts of data between partners and ii) highly specific data management functionality

Use case 1: Cloud-like access

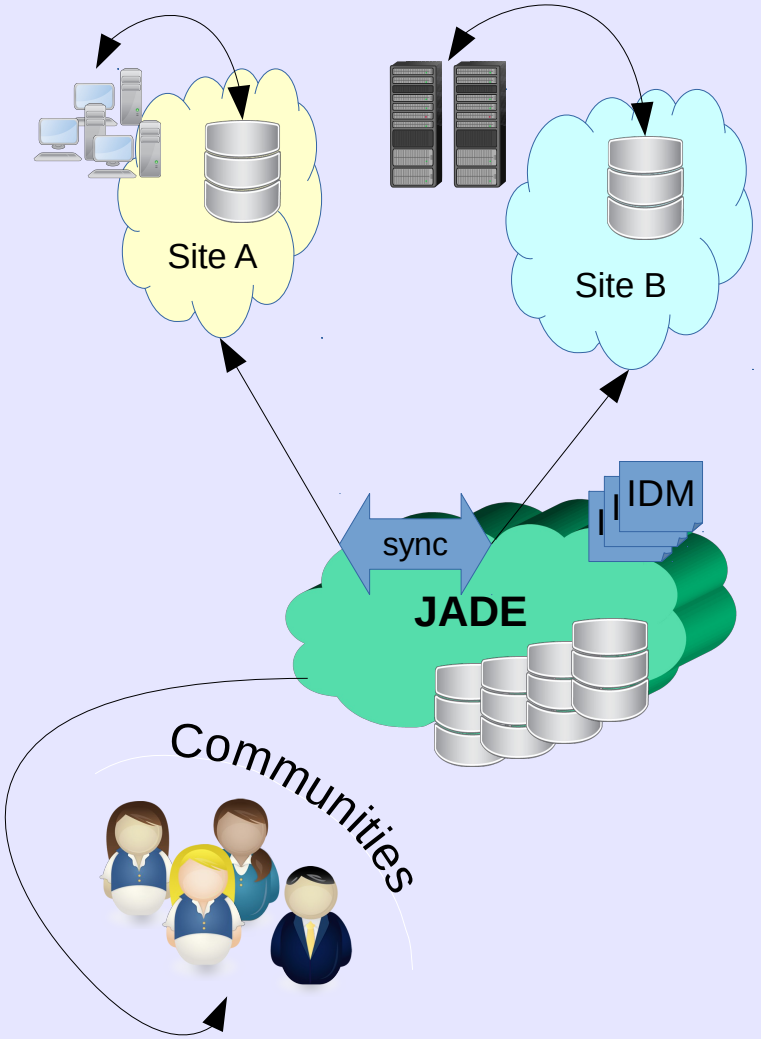
Any data in JADE can be shared and accessed via various methods – like https, webDAVs, scp, nfs

Fine grained ACLs are used to authorize access



Use case 2: Data Replication

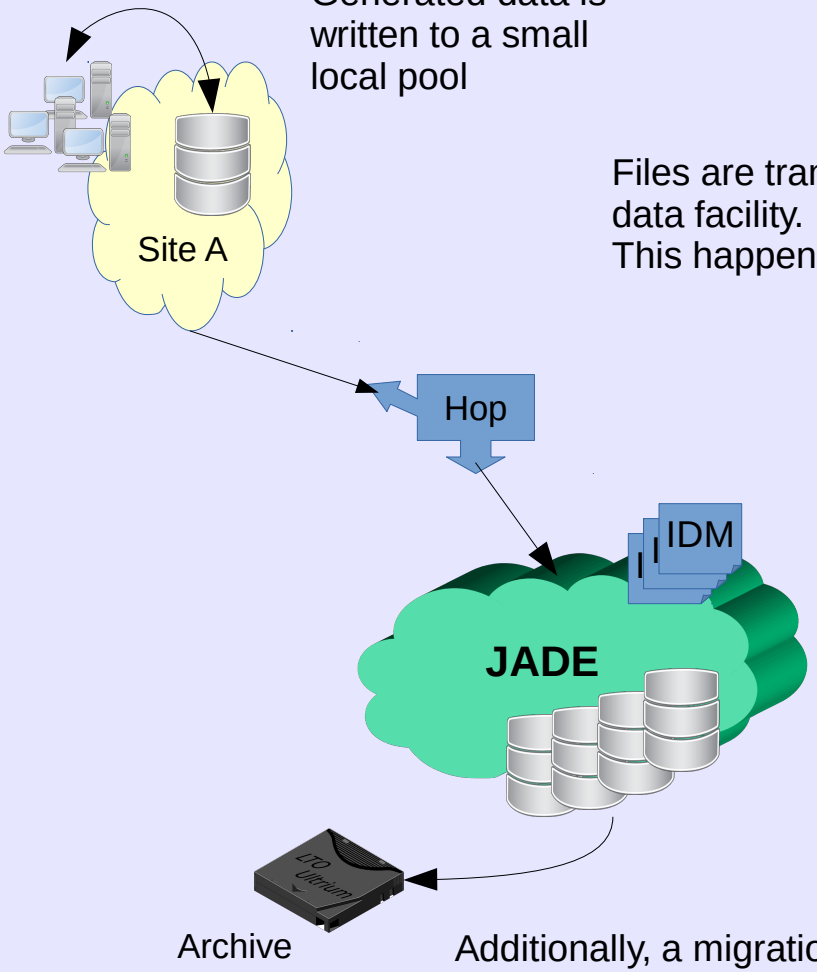
Site can have synchronized data set e.g. in locally deployed data pools



Communities can use any available method for local or remote access

Use case 3: Data Flow

Generated data is written to a small local pool

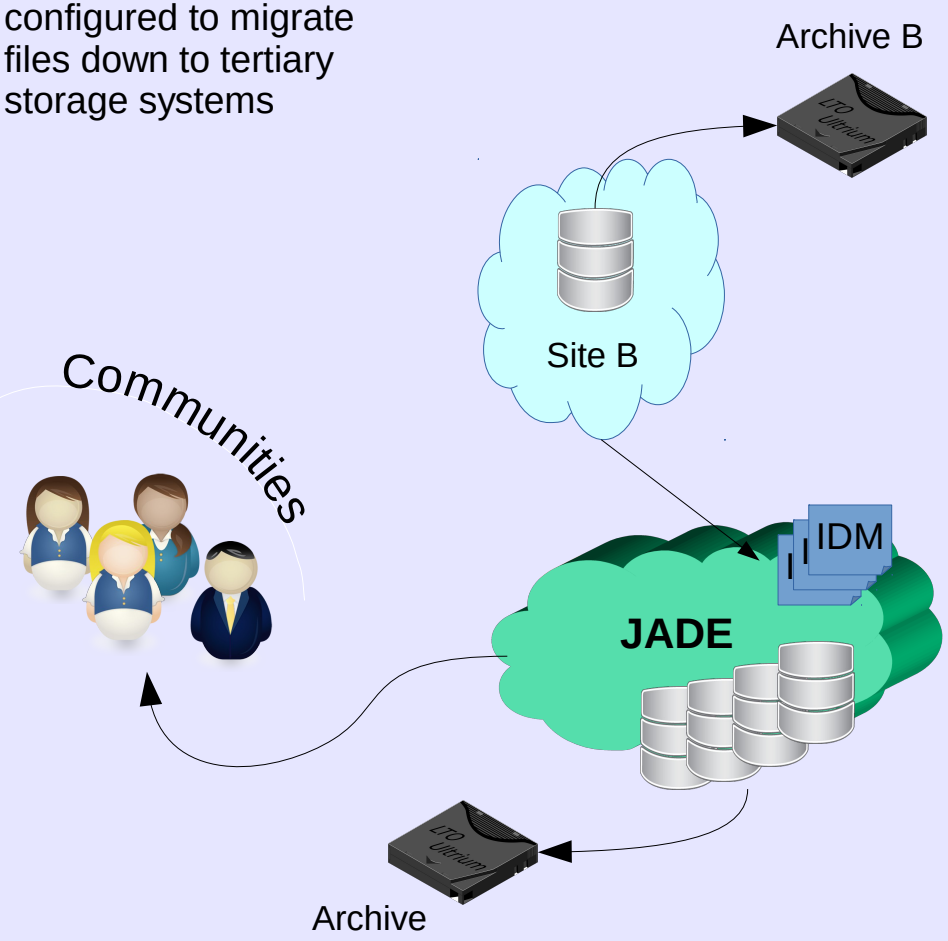


Files are transferred to a huge, central data facility.
This happens transparently to the user.

When data is read the JADE system always knows in which locations a copy exists and links the read request to the best available copy or transfers the file back to a local pool in advance.

Additionally, a migration to a tertiary storage system is possible

Use case 4: Archiving

All pools can be configured to migrate files down to tertiary storage systems

Store and restore from tertiary storage systems is transparent to users