

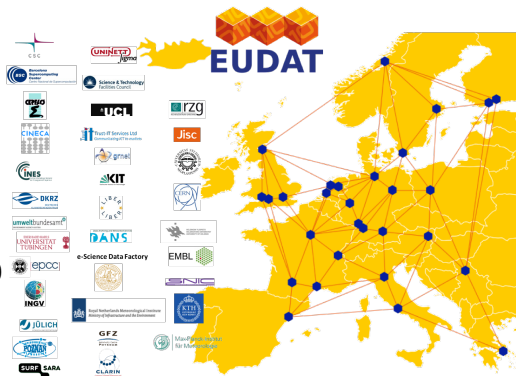
B2DROP

The EUDAT Personal Cloud Storage

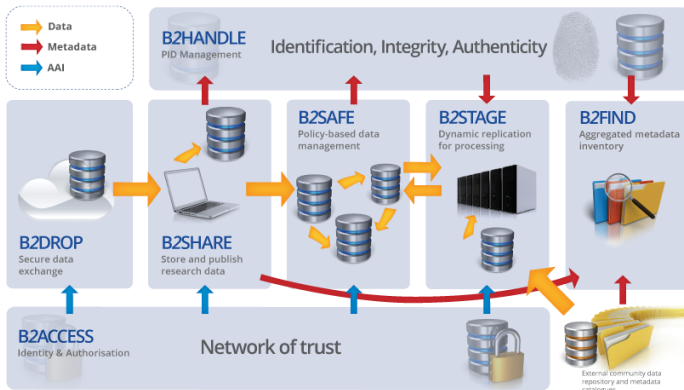
31.01.2017 | **Benedikt von St. Vieth**, Thijs Cobben, Sander Apweiler, Mikael Karlsson

The EUDAT project(s)

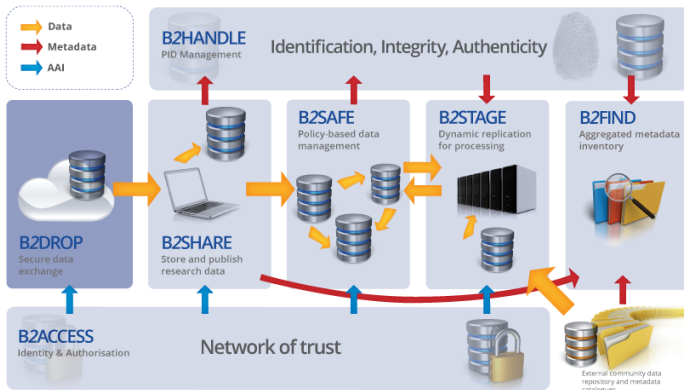
- data services
- EUDAT
 - 2011 - 2015
 - EU FP7
- EUDAT2020
 - 2015 - 2018
 - EU Horizon 2020
- EUDAT CDI
 - beyond
- community driven



The EUDAT Collaborative Data Infrastructure



The EUDAT Collaborative Data Infrastructure



B2DROP

For whom?

Researchers (including citizen scientists) who want to share their research with a small set of collaborators prior to making it available to a wider audience.

What can you do with it?

- a service to store and exchange data
- automated desktop synchronization on many platforms

B2DROP

For whom?

Researchers (including citizen scientists) who want to share their research with a small set of collaborators prior to making it available to a wider audience.

What can you do with it?

- a service to store and exchange data
- automated desktop synchronization on many platforms
- (move data to other EUDAT services)

Login Page

GO TO EUDAT WEBSITE



WHAT IS B2DROP

REGISTER

USER GUIDE

FAQs

CONTACT

Not registered yet? [CLICK HERE](#)



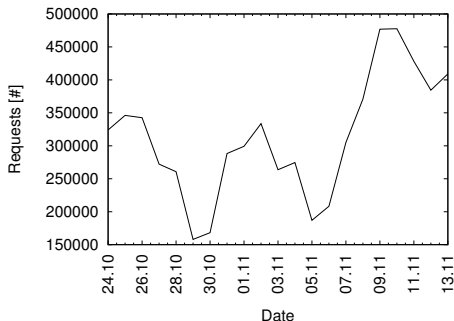
EUDAT receives funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 654065. [Legal Notice](#).

[Terms of Use](#)

[About EUDAT](#)

Usage Statistics - b2drop.eudat.eu

- users: 1000
 - 330 in 9/2015
 - 125 in 3/2015
- volume: 950 GB
- objects: 990.000 #
- requests:
 - 313.000 #/day
 - 3,6 #/sec



Operations

- deployment using puppet
- transparent migration to new server in 04/2016
 - new LAMP stack
 - ownCloud version 7→8.0→8.1→8.2→9.0
- ownCloud version 9.0→9.1 in 07/2016
- continuous theme adoptions
- B2SHAREBRIDGE (ownCloud App) implementation
- Nextcloud tests (theme, B2SHAREBRIDGE, B2ACCESS)

B2SHAREBRIDGE

B2SHAREBRIDGE **Plugin**

Use Case:

A researcher worked on a publication. The volatile digital objects were stored, synchronized and shared using B2DROP. Now, after finalizing it, he wants to publish the final document using B2SHARE.

B2SHAREBRIDGE Plugin


Use Case:

A researcher worked on a publication. The volatile digital objects were stored, synchronized and shared using B2DROP. Now, after finalizing it, he wants to publish the final document using B2SHARE.

- extend B2DROP WebUI
 - create deposit on a per-file base
 - make community (metadata) selectable
- implement third-party transfers






User Interface - File List

GO TO EUDAT WEBSITE



WHAT IS B2DROP USER GUIDE FAQs CONTACT


Files

	Name	Size	Modified
★	 20160205_B2DROP-UserTraining_UserForum.pptx	4.8 MB	2 days ago
	 20160512_B2DROP-Community-Meeting_Utrecht.pptx	2.8 MB	2 days ago
	 20160620_B2DROP-Technical-Meeting_Barcelona.pptx	2.8 MB	2 days ago
	 20160714_B2SAFE-Swict_Duesseldorf.pptx	814 KB	2 days ago
	 IMG_1288.JPG	2.2 MB	a month ago
	5 files	13.3 MB	

B2SHARE

User Interface - Community Selection


GO TO EUDAT WEBSITE



WHAT IS B2DROP USER GUIDE FAQs CONTACT

Files ▾ bvorstvieth

Name	Size	Modified
20160205_B2DROP-UserTraining_UserForum.pptx	4.8 MB	8 days ago
20160512_B2DROP-Community-Meeting_Utrecht.pptx	2.8 MB	8 days ago
20160620_B2DROP-Technical-Meeting_Barcelona.pptx	2.8 MB	8 days ago
20160714_B2SAFE-Swift_Duesseldorf.pptx	814 KB	8 days ago
IMG_1288.JPG	2.2 MB	a month ago
5 files	13.3 MB	



20160714_B2SAFE-Swift_Duesseldorf.pptx ✕

★ 814 KB, 8 days ago

Collaborative tags

Active **B2SHARE** Comments Sharing Versions

EUDAT ▾

publish

User Interface - Deposit List

GO TO EUDAT WEBSITE



WHAT IS B2DROP USER GUIDE FAQs CONTACT

B2SHARE ▾

bvornstvieth

All Deposits

Pending Deposits



Published Deposits

Failed Deposits

Transfer ID	Filename	Status	Publish URL	Triggered At	Last Update
10	/20160620_B2DROP-Technical-Meeting_Barcelona.pptx	published	URL	Wed, 23 Nov 2016 09:29:10	Wed, 23 Nov 2016 09:30:04
9	/20160512_B2DROP-Community-Meeting_Utrecht.pptx	published	URL	Wed, 23 Nov 2016 09:29:03	Wed, 23 Nov 2016 09:30:04
8	/20160205_B2DROP-UserTraining_UserForum.pptx	published	URL	Wed, 23 Nov 2016 09:28:55	Wed, 23 Nov 2016 09:30:04
7	/20160714_B2SAFE-Swift_Duesseldorf.pptx	published	URL	Wed, 23 Nov 2016 09:27:28	Wed, 23 Nov 2016 09:30:03
6	/20160205_B2DROP-UserTraining_UserForum.pptx	External error: during creating deposit	URL	Thu, 17 Nov 2016 10:17:48	Thu, 17 Nov 2016 10:20:02

Deposit in B2SHARE

GO TO EUDAT WEBSITE

  Search records for...


HELP COMMUNITIES UPLOAD CONTACT b.vonstvieth@fz-juelich.de

RECORDS - SED06PFD0543uA69RfYj3Bu99F3 - EDIT


Editing 20160620_B2DROP-Technical-Meeting_Barcelona.pptx

Add files

Drop files here, or click to select files



Uploaded files

Name	Date	Size
 20160620_B2DROP-Technical-Meeting_Barcelona.pptx	Nov 23, 2016	2.90MB

Basic fields



Community

Title

Description

User Interface - Personal Settings

GO TO EUDAT WEBSITE



WHAT IS B2DROP USER GUIDE FAQs CONTACT

Personal ▼ bvonstvieth

- Personal info
- Sessions
- App passwords
- Sync clients
- Activity
- EUDAT B2SHARE Bridge
- Federated Cloud

EUDAT B2SHARE Bridge


<input type="text" value="https://fsd-cloud9.zam.kfa-juelich.de:443"/>	External publishing endpoint
<input type="text" value="7QuX15PglnmzKvy1VOVsWr0KqmjRymS3UQriOfvXzCONltudprgyJqt"/>	B2Share API token

Federated Cloud

Your Federated Cloud ID: `bvonstvieth@fsd-cloud48.zam.kfa-juelich.de`

User Interface - Admin Settings

GO TO EUDAT WEBSITE



WHAT IS B2DROP USER GUIDE FAQs CONTACT

Admin admin

- Sharing
- Server-side encryption
- Federation
- File handling
- EUDAT B2SHARE Bridge**
- Mail Templates
- Cron
- Email server
- Log

EUDAT B2SHARE Bridge

<input type="text" value="https://fsd-cloud9.zam.kfa-juelich.de:443"/>	External B2SHARE API endpoint
<input type="text" value="5"/>	# of uploads per user at the same time
<input type="text" value="512"/>	MB maximum filesize per upload

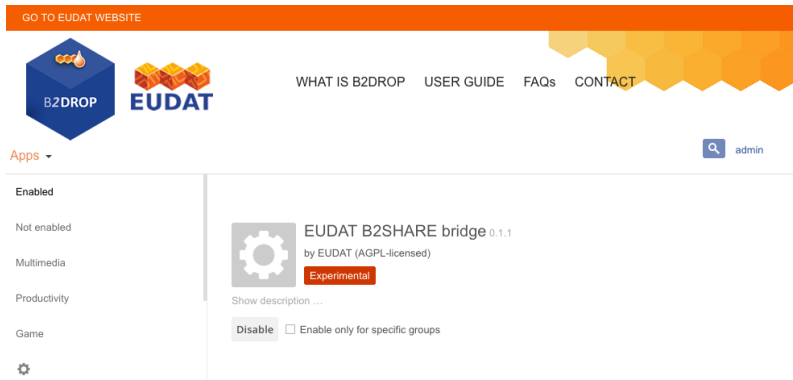
Check valid secure (https) connections to B2SHARE

Mail Templates



Theme	Template
<input type="text" value="b2drop"/>	<input type="text" value="Please choose a template"/>

ownCloud / Nextcloud App


We followed the owncloud 3rd party App pattern



GO TO EUDAT WEBSITE

WHAT IS B2DROP USER GUIDE FAQs CONTACT

Apps  admin


Enabled


Not enabled

Multimedia

Productivity

Game



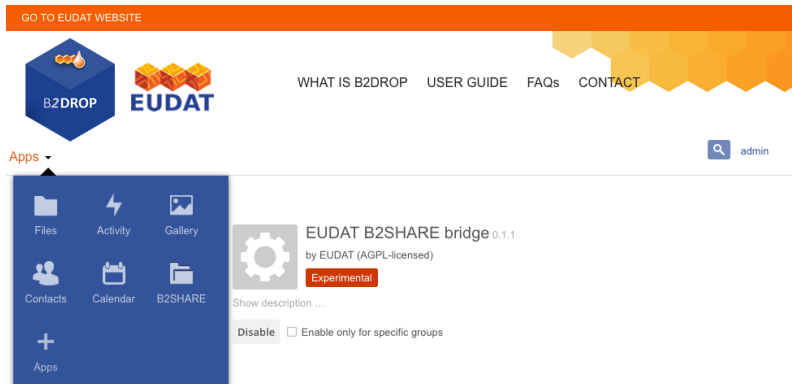
 EUDAT B2SHARE bridge 0.1.1
by EUDAT (AGPL-licensed)
Experimental

Show description ...

Disable Enable only for specific groups

ownCloud / Nextcloud App


We followed the owncloud 3rd party App pattern




GO TO EUDAT WEBSITE

B2DROP **EUDAT**

WHAT IS B2DROP USER GUIDE FAQs CONTACT

Apps  admin

- Files
- Activity
- Gallery
- Contacts
- Calendar
- B2SHARE
- +
- Apps

 **EUDAT B2SHARE bridge** 0.1.1
by EUDAT (AGPL-licensed)
Experimental

Show description ...

Disable Enable only for specific groups

ownCloud / Nextcloud **App Framework**

- database tables (*b2sharebridge/appinfo/database.xml*)
 - store deposit states
 - store B2SHARE communities

ownCloud / Nextcloud **App Framework**

- database tables (*b2sharebridge/appinfo/database.xml*)
 - store deposit states
 - store B2SHARE communities
- cron executor (*Job, QueuedJob*)
 - register deposit as a *QueuedJob*
 - fetch B2SHARE for communities as regular *Job*

ownCloud / Nextcloud **App Framework**

- database tables (*b2sharebridge/appinfo/database.xml*)
 - store deposit states
 - store B2SHARE communities
- cron executor (*Job, QueuedJob*)
 - register deposit as a *QueuedJob*
 - fetch B2SHARE for communities as regular *Job*
- *OCA.Files.FileList* / *OCA.Files.DetailTabView*
- *OCP.Template* (settings-personal, settings-admin)
- PublishController (php) that connects to B2SHARE.v2 API

B2ACCESS **Integration**

B2ACCESS

- CSC/JUELICH put effort into ownCloud SAML integration
⇒ lack of client support

B2ACCESS

- CSC/JUELICH put effort into ownCloud SAML integration
- ⇒ lack of client support
- Nextcloud provides a *user_saml* module (on GitHub)
 - WebDAV/mobile clients through user-managed application passwords
 - client applications allow to use federated logins

B2ACCESS

- CSC/JUELICH put effort into `ownCloud` SAML integration
- ⇒ lack of client support
- `Nextcloud` provides a *user_saml* module (on GitHub)
 - WebDAV/mobile clients through user-managed application passwords
 - client applications allow to use federated logins
- but:**
- currently not enough attribute mapping possible
 - after enabling *user_saml*, only federated accounts work
- ⇒ no local admin (and LDAP?) anymore

B2DROP

B2DROP - Current Status

- service usage as expected
 - B2SHAREBRIDGE ongoing development
- ⇒ after initial release, further extend WebUI
- B2ACCESS integration quite challenging
- ⇒ (automated) migration of all users close to impossible