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What is WebFTS?

 Web based tool to transfer files between grid/cloud storages

- Modular protocol support
 - gsiftp, http(s), xrootd and srm
 - Cloud extensions: dropbox
- Development funded by







Provide access to leading technology

Based on FTS3



- FTS3 is used for the LHC data distribution
- Powerful and reliable technology transferring more than 20PB per month (record 2PB/day!) and able to handle different protocols
- Enabling transfer capabilities for individuals and small teams
 - Web interface focused on usability and simplicity



Security

- Simpler access while keeping the same level of security
 - X509 + Oauth for Dropbox
 - Transparent delegation of credentials



- Avoid storing or transferring any sensitive data
 - Open access to all source code
 - All sensitive information is used within the browser and forgotten



Additional Features

- Check-summing and file overwriting
- Possibility to resubmit transfer jobs or only-failed files transfers.
- Storage Endpoints Auto-completion
 - For endpoints published on the BDII (EGI and WLCG Information System)
- Support for LFC Registration
 - File catalog developed at CERN and used by EGI and WLCG



Success Stories

It has been successfully tested to transfer from/to:

- B2Stage (iRODS DSI)
- Any gsiftp/webdav/xrootd aware grid storage (DPM, dCache, Castor, EOS, Storm)
- HPC Titan @ Oak Ridge National Lab (ongoing)
 - https://www.olcf.ornl.gov/titan/



WebFTS service

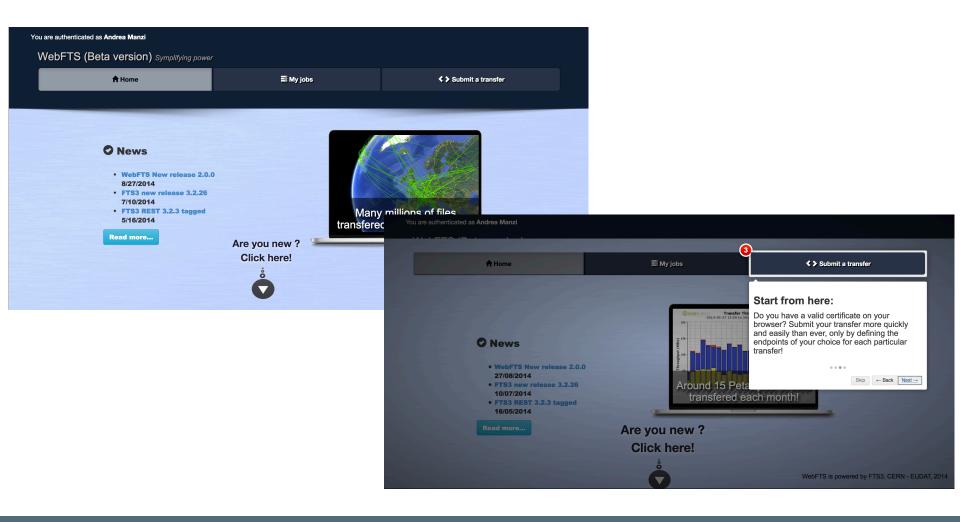
- Online service accessible:
 - https://webfts.cern.ch ← try now!
 - User certificate in your browser



- User guide, F.A.Q:
 - Online guided-tour
 - http://fts3-service.web.cern.ch/documentation/ webfts
- Official support & code
 - fts-support@cern.ch
 - https://github.com/cern-it-sdc-id/webfts

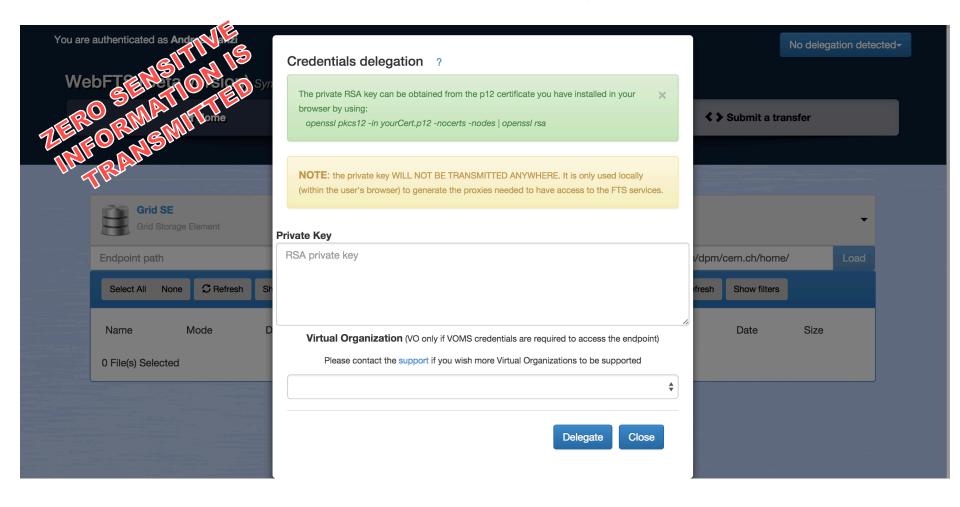


Landing page and Guided-tour



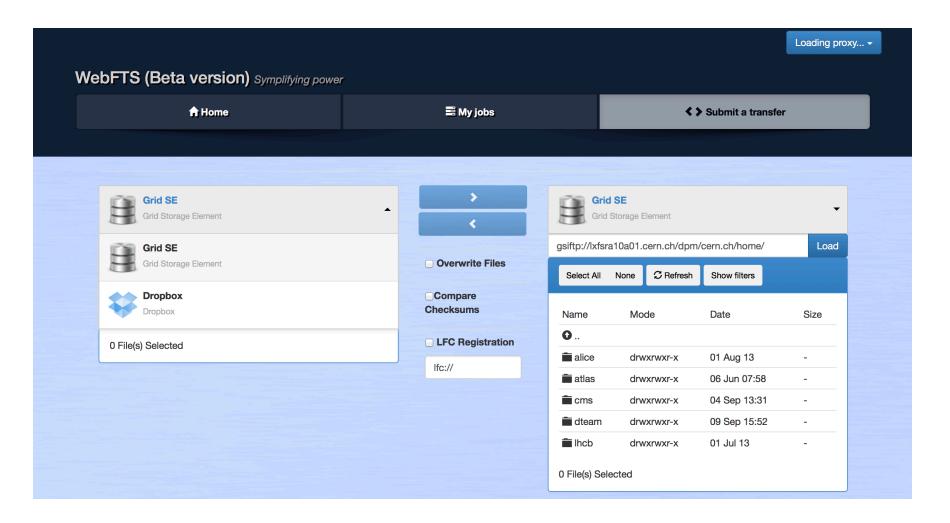


Credential delegation



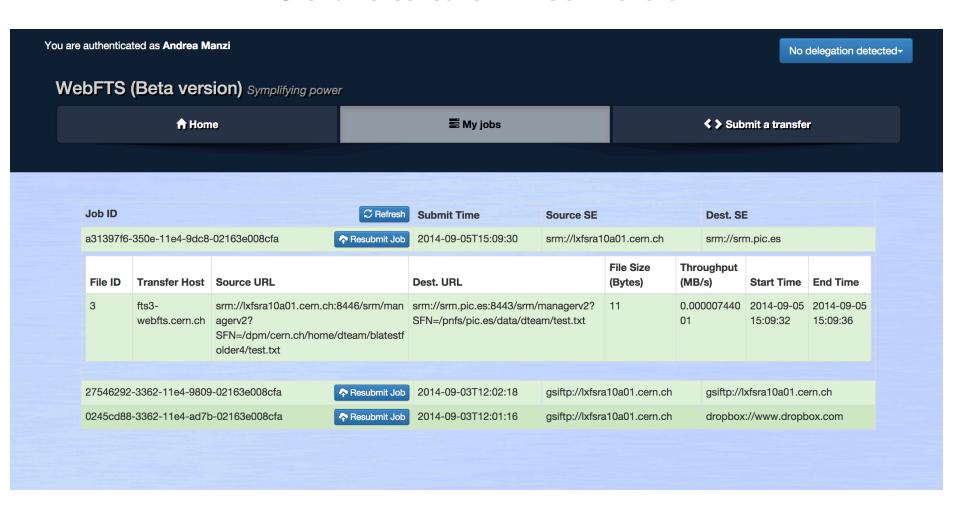


Transfer interface





Job status interface





Future improvements (I)

- Not only Transfers...
- FTS3 API are being extended to support data management operations
 - Delete
 - Create/Remove folders
 - Rename



To be integrated in WebFTS



Future improvements (II)

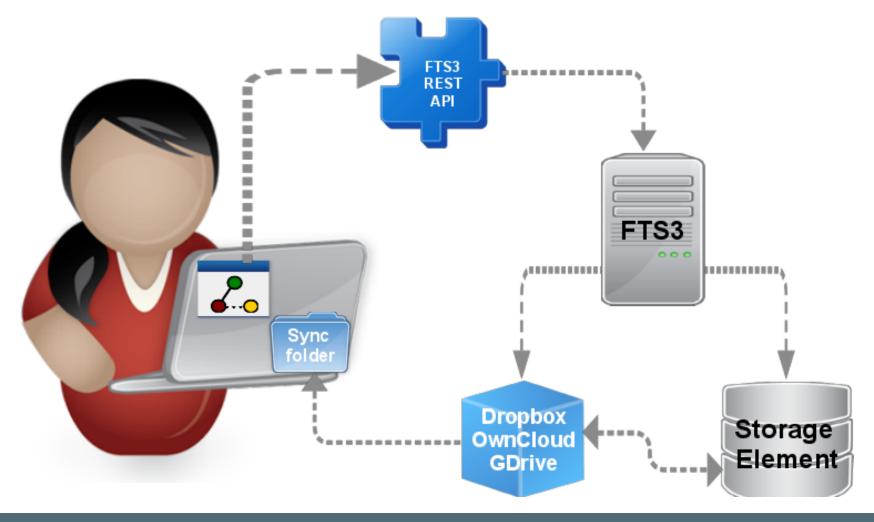
- Working on the integration of further cloud storage services (*Owncloud*, *Google Drive*, etc). Priority is given to *CERNBox* (Owncloud deployment at CERN)
 - Avoid the installation of new software and uses what the user has already installed
 - Zero development of clients
 - Multiplatform is given for free



box

Dropbox

Future improvements (II)





Under evaluation(I)

 New authentication method based on federated access

 user/password access based on federated access (EDUROAM)





Under evaluation(II)

 FTS3 is being extended to support transfers to:

S3 (Amazon)







To evaluate the integration in WebFTS

Questions?

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