



FTS web portal: WebFTS

Andres Abad Rodriguez
IT/SDC

GDB. 9/4/2014



What is WebFTS?

- Web based tool to transfer files between grid endpoints
- Multi-protocol support
 - srm, gsiftp, http(s) and xrootd
- Built on top of FTS3
- Development funded by EUDAT

Why WebFTS?

- Powerful service to manage transfers already in production (FTS3), but mainly for frameworks
 - other apps built on top of it
- Creation of a user oriented interface
 - Enabling grid transfer capabilities to users in other domains and different backgrounds
- More intuitive than a command line tool

Credential delegation

**ZERO SENSITIVE
INFORMATION IS
TRANSMITTED**

You are authenticated as **Andres Rodriguez**

webFTS (5.1.1 version)

No delegation detected

Submit a transfer

Load

Refresh Show filters

Name	Mode	Date	Size
0 File(s) Selected			

Credentials delegation ?

The private RSA key can be obtained from the p12 certificate you have installed in your browser by using:

```
openssl pkcs12 -in yourCert.p12 -nocerts -nodes | openssl rsa
```

NOTE: the private key WILL NOT BE TRANSMITTED ANYWHERE. It is only used locally (within the user's browser) to generate the proxies needed to have access to the FTS services.

Private Key

RSA private key

Virtual Organization (VO only if VOMS credentials are required to access the endpoint)

Delegate Close

Transfer interface

You are authenticated as **Andres Abad Rodriguez**

Your current proxy is still valid for 11 hours ▾

webFTS (Beta version)

Home My jobs Submit a transfer

gsiftp://lxfra10a01.cern.ch/dpm/cern.ch/home/dteam/ Load

Select All None Refresh Show filters

Name	Mode	Date	Size
..			
aalvarez	drwxrwxr-x	25 Mar 13:10	-
af1	-rw-rw-r--	30 Oct 14:08	226 B
af2	-rw-rw-r--	31 Oct 07:24	226 B
atlas20.root	-rw-rw-r--	21 Feb 08:51	0
davix-tests	drwxrwxr-x	20 Feb 14:27	-
df	-rw-rw-r--	08 Nov 15:51	663 B
dynafeds_demo	drwxrwxr-x	13 Mar 09:26	-
fed_connect.pcap	-rw-rw-r--	12 Aug 13:29	332 B
fts3tests.021e5dcd...	-rw-rw-r--	01 Apr 00:40	1020.0 kB
fts3tests.0948e79e...	-rw-rw-r--	02 Apr 00:51	0
fts3tests.0e78bbfc...	-rw-rw-r--	03 Apr 00:54	1020.0 kB
fts3tests.5a96fe9e...	-rw-rw-r--	02 Apr 00:50	0
fts3tests.8ed2fb3f...	-rw-rw-r--	02 Apr 00:54	1020.0 kB
fts3tests.c02ebefb...	-rw-rw-r--	02 Apr 09:28	1020.0 kB

>

<

https://dpmhead02.cern.ch/dpm/cern.ch/home/dteam/perfsuite/ Load

Select All None Refresh Show filters

Name	Mode	Date	Size
..			
100	drwxrwxrwx	22 Oct 12:51	-
100k	drwxrwxrwx	13 Feb 07:47	-
test1	-rw-r--r--	29 Jan 13:29	58 B
test2	-rw-r--r--	29 Jan 14:07	58 B
test3	-rw-r--r--	30 Jan 10:14	58 B
test4	-rw-r--r--	29 Jan 21:28	58 B
test5	-rw-r--r--	30 Jan 10:15	58 B
test6	-rw-r--r--	30 Jan 10:49	58 B
test7	-rw-r--r--	30 Jan 11:00	58 B

0 File(s) Selected



Job status interface

You are authenticated as **Andres Abad Rodriguez**

Your current proxy is still valid for 4 hours ▾

webFTS (Beta version)

Home

My jobs

Submit a transfer

Job ID		Submit Time	Source SE	Dest. SE
13c5f828-be67-11e3-bcbd-02163e00a1eb	Cancel Resubmit job	2014-04-07T15:12:47	gsiftp://lxfkra10a01.cern.ch	gsiftp://lxfkra10a01.cern.ch
13eaaeac-be67-11e3-bcbd-02163e00a1eb	Cancel Resubmit job	2014-04-07T15:12:47	gsiftp://lxfkra10a01.cern.ch	gsiftp://lxfkra10a01.cern.ch
140c1f2e-be67-11e3-9580-02163e00a1eb	Cancel Resubmit job	2014-04-07T15:12:47	gsiftp://lxfkra10a01.cern.ch	gsiftp://lxfkra10a01.cern.ch

File ID	Transfer Host	Source URL	Dest. URL	File Size	Throughput	Start Time	End Time
27180	null	gsiftp://lxfkra10a01.cern.ch/dpm/cern.ch/home/dteam/atlas20.root	gsiftp://lxfkra10a01.cern.ch/dpm/cern.ch/home/dteam/lmascett/atlas20.root	0	0	null	null
27181	fts3oradevel03.cern.ch	gsiftp://lxfkra10a01.cern.ch/dpm/cern.ch/home/dteam/image.jp	gsiftp://lxfkra10a01.cern.ch/dpm/cern.ch/home/dteam/lmascett/image.jp	179181	0	2014-04-07 15:13:04	2014-04-07 15:13:05
27182	fts3oradevel01.cern.ch	gsiftp://lxfkra10a01.cern.ch/dpm/cern.ch/home/dteam/jhdgsjhdg	gsiftp://lxfkra10a01.cern.ch/dpm/cern.ch/home/dteam/lmascett/jhdgsjhdg	187	0	2014-04-07 15:13:01	2014-04-07 15:13:02

139b2cc4-be67-11e3-9580-02163e00a1eb	Cancel Resubmit job	2014-04-07T15:12:47	gsiftp://lxfkra10a01.cern.ch	gsiftp://lxfkra10a01.cern.ch
1371d6d0-be67-11e3-9580-02163e00a1eb	Cancel Resubmit job	2014-04-07T15:12:46	gsiftp://lxfkra10a01.cern.ch	gsiftp://lxfkra10a01.cern.ch
134e0818-be67-11e3-adbd-02163e00a1eb	Cancel Resubmit job	2014-04-07T15:12:46	gsiftp://lxfkra10a01.cern.ch	gsiftp://lxfkra10a01.cern.ch
131ac372-be67-11e3-adbd-02163e00a1eb	Cancel Resubmit job	2014-04-07T15:12:46	gsiftp://lxfkra10a01.cern.ch	gsiftp://lxfkra10a01.cern.ch

Future improvements

- Prototype an authentication method based on federated access
 - Transparent proxy generation
 - <http://indico.cern.ch/event/272620/contribution/5/material/slides/>
- Connect to cloud storage providers
 - Dropbox, Gdrive, ownCloud, etc

Beta service

- Beta service access:
 - <https://fts3oradevel01.cern.ch:8446>
- **Testers are welcome!**
- Official support: `fts-support@cern.ch`