

[Collapse All](#) | [Expand All](#)

- › [Home](#)
- › [Archived](#)
- › [Acknowledgements](#)
- [Blog and News](#)
- › [Documentation v2-0-alpha](#)
- › [Documentation v1-6](#)
- ▼ [Documentation v1-5](#)
 - [Features 1-5](#)
 - [Upgrade notes to 1-5](#)
 - [Known issues 1-5](#)
 - [Requirements 1-5](#)
 - [Administrator reference manual 1-5](#)
 - [Installation - Linux Source 1-5](#)
 - [End User Documentation for v1-5](#)
- ▼ [Documentation v1-1](#)
 - [Administrator reference manual - v1-1](#)
 - [End User Documentation for v1-1](#)
 - [Features v1-1](#)
 - [Installation - Linux Source - v1-1](#)**
 - [Upgrade notes up to v1-1-1](#)
 - [Known issues in v1-1](#)
 - [Requirements for v1-1](#)
- › [Download](#)
- › [Developer](#)
 - [Existing installations](#)
 - [Feature requests](#)
 - [Online Demo](#)
- › [Project organisation](#)
 - [Roadmap](#)
- › [Release Schedule](#)

[Release status and life cycle](#)

[Reviews and prototypes](#)

[Support and Mailinglists](#)

[Twitter](#)

[FileSender's workflows](#)

[Installation - Linux Source 2-0-Alpha-from-svn](#)

Installation - Linux Source - v1-1



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- [Client and Server Requirements](#)
- [Install Apache2](#)
- [Configure Apache2 with SSL](#)
- [Install and configure PHP5](#)
- [Install and configure PostgreSQL](#)
- [Install SimpleSAMLphp](#)
- [Install the FileSender package](#)
- [Create the FileSender user and database](#)
- [Configure your FileSender installation](#)
- [Configure Cron](#)
- [Start using FileSender](#)
- [Support and Feedback](#)

This is the installation documentation for installing **FileSender 1.1(x)** on Linux. This guide is written for installation from source on the Debian Linux platform but any Linux variant should work with some modifications (most notably about installing the required additional software packages).

Debian and RPM packages are also available to automate most of the steps below. Please see [Installation - Debian Ubuntu](#) and [Installation - RPM](#) for instructions on how to get and use them. The Debian and RPM packages will install the filesender and simplesamlphp software in the `/usr/share/` directory tree. In the examples below `/var/www` is used as base directory. Please adapt the examples below where appropriate when using the packages.

Client and Server Requirements

See [Requirements_for_v1-1](#).

Install Apache2

Install Apache2 from the Debian package repository.

```
$ apt-get install apache2
```

Configure Apache2 with SSL

FileSender assumes it will run on a webserver with SSL enabled, which is enforced by the ForceSSL setting in the FileSender configuration file, check [Configure your FileSender installation](#)). Get a certificate and [configure your webserver with SSL](#) . Please note that a self-signed certificate will most likely cause upload problems with Flash (most notably the "#2038 IO Error" but others have been seen). This is a Flash problem which is explained in more [detail in the FAQ](#) .

Disabling SSL means all file uploads and downloads are unprotected and any data transferred to and from your

FileSender installation can be stolen. Disabling SSL is not advisable.

Install and configure PHP5

- **Install PHP5** from the Debian package repository:

```
$ apt-get install php5 php5-cgi
```

- **Check whether the GMP extension is enabled** (it usually is):

```
$cat /etc/php5/conf.d/gmp.ini
# configuration for php GMP module
extension=gmp.so
```

- **Change some PHP ini-settings** to allow for larger files, longer execution times and to turn on logging. As of version 1.0.1 a sample settings file is provided in the the FileSender config directory as `filesender - php .ini`. This file can be stored in your `/etc/php.d/` or `/etc/php5/conf.d/` directory to activate those settings. Please adapt the sample settings file where needed. Alternatively you can manually edit your `php.ini` file:

```
$ gedit /etc/php5/apache2/php.ini
```

To allow for larger files and longer execution times you will need to edit these lines:

```
max_input_time(in seconds)
upload_max_filesize(in M)
post_max_size (in M)
```

NOTE: Remember to change `filesender $config['max_flash_upload_size']` to match your `upload_max_filesize`. If they are not the same FileSender will use the lowest value as the actual maximum upload size for Flash uploads.

Reasonable values are:

```
max_input_time = 3600
upload_max_filesize = 2047M
post_max_size = 2146445312 ; 2047M + 10K
```

To change the temporary location for Flash uploads configure this in `php.ini`:

```
upload_tmp_dir = /your/temporary/location
```

Note: that this setting is for all PHP-apps, not only for filesender.

Note: It is best to make this temporary folder location the same as your filesender `$config['site_temp_filestore']`.

To turn on logging configure these lines in `php.ini`:

```
log_errors = on
error_log = syslog
```

- **When using Suhosin**, make sure your `/etc/php5/apache2/conf.d/suhosin.ini` contains the following:

```
; configuration for php suhosin module
extension=suhosin.so

; For Suhosin plugin versions before 0.9.33
suhosin.cookie.encrypt = off
; Needed for IE compatibility
suhosin.session.cryptua = off
; Needed for SimpleSAMLphp
suhosin.get.max_value_length = 2048
```

Install and configure PostgreSQL

PostgreSQL can be installed from your standard debian repository along with PostgreSQL support in PHP:

```
$ apt-get install postgresql php5-pgsql
```

FileSender uses password based database logins and by default assumes that PostgreSQL is configured to accept password based sessions on 'localhost'. You should check and when needed change the relevant settings in the PostgreSQL `pg_hba.conf` configuration file. This file should have the following entries with **md5** listed as METHOD for local IPv4 and IPv6 connections:

```
# Database administrative login by UNIX sockets
local all postgres ident
# TYPE DATABASE USER CIDR-ADDRESS METHOD
# "local" is for Unix domain socket connections only
local all all ident
# IPv4 local connections:
host all all 127.0.0.1/32 md5
# IPv6 local connections:
host all all ::1/128 md5
```

On Debian based systems this file will be in `/etc/postgresql/<version>/main/pg_hba.conf`. On Red Hat/Fedora based systems this file will be in `/var/lib/pgsql/data/pg_hba.conf`. When changing the `pg_hba.conf` file you'll have to restart the database server with (version number may be different or not needed depending on your system):

```
$ /etc/init.d/postgresql-8.3 restart
```

Install SimpleSAMLphp

To set up a working SimpleSAMLphp that uses the preconfigured !OpenIDP as an authentication mechanism follow this recipe:

1. Download [SimpleSAMLphp 1.8.1](#) (note that recent Debian/Ubuntu have packages available, also the FileSender RPM and Debian repositories have SimpleSAMLphp packages).
2. Some SimpleSAMLphp setups require the PHP mcrypt extension: `apt-get install php-mcrypt`
3. Extract it into a suitable directory on your website such as `/var/www/simplesamlphp-1.8.1`
4. Add "Alias /simplesaml /var/www/simplesamlphp-1.8.1/www" to your Apache virtual host configuration
5. Copy the standard configuration files to the right places:

```
$ cp -r config-templates/*.php config/
$ cp -r metadata-templates/*.php metadata/
```

To tailor your [SimpleSAMLphp](#) installation to your local site please check its [installation and configuration documentation](#).

When connecting to an Identity provider make sure all the required attributes are sent by the identity provider. See the [section on IdP attributes](#) in the Reference Manual for details.

By default the following attributes are set as required:

```
mail
eduPersonTargetedID
cn
```

By default FileSender uses `eduPersonTargetedID` for the unique identification of the user (this can be changed in the configuration). If your identity provider doesn't provide the `eduPersonTargetedID` attribute you can either change the attribute uniquely identifying a user or alternatively you can add an `authproc` filter to the metadata of that identity provider to locally generate an `eduPersonTargetedID` attribute. See http://simplesamlphp.org/docs/1.8/core:authproc_targetedid for the details.

Install the FileSender package

- Download the FileSender software from the FileSender 1.1 [download page](#).
- Extract the FileSender tarball

```
tar zxvf /usr/local/src/filesender-1.1.tar.gz
```

This will create a directory 'filesender-1.1'. You can move that directory to the preferred location on your system. In this document we'll use /var/www/filesender :

```
mv filesender-1.1 /var/www/filesender
```

- Make the files, tmp and log directories writable by the web daemon user and allow the web daemon user to read the config.php configuration file:

```
cd /var/www/filesender
chown www-data:www-data tmp files log
chgrp www-data config/config.php
```

The directory structure and permissions should now be as follows, carefully check the entries marked in **bold**:

```
filesender:/var/www/filesender# ls -l config/
total 24
-rw-r----- 1 root www-data 15347 2011-01-27 18:54 config.php

filesender:/var/www/filesender# ls -al
total 100
drwxr-xr-x 11 root    root    4096 2011-01-29 18:39 .
drwxr-xr-x  9 root    root    4096 2011-01-29 18:56 ..
-rw-r--r--  1 root    root   10783 2011-01-29 12:37 CHANGELOG.txt
drwxr-xr-x  2 root    root    4096 2011-01-29 18:39 classes
drwxr-xr-x  2 root    root    4096 2011-01-29 18:39 config
drwxr-xr-x  2 root    root    4096 2011-01-29 18:39 cron
drwxr-xr-x  2 www-data www-data 4096 2011-01-29 18:39 files
drwxr-xr-x  2 root    root    4096 2011-01-29 18:39 includes
-rw-r--r--  1 root    root    3318 2011-01-29 12:28 INSTALL.txt
-rw-r--r--  1 root    root    1554 2011-01-14 11:33 LICENCE.txt
drwxr-xr-x  2 www-data www-data 4096 2011-01-29 18:39 log
-rw-r--r--  1 root    root    2002 2011-01-29 12:28 README.txt
drwxr-xr-x  2 root    root    4096 2011-01-29 18:39 scripts
drwxr-xr-x  2 www-data www-data 4096 2011-01-29 18:39 tmp
drwxr-xr-x  6 root    root    4096 2011-01-29 18:39 www
```

- Add an alias to your Apache virtual host configuration:

```
<VirtualHost *>
```

```
...
```

```
Alias /filesender /var/www/filesender/www
```

```
...
```

```
</VirtualHost>
```

this will make the FileSender web tree accessible through your web site. Alternatively you can simply point your DocumentRoot to /var/www/filesender/www

Create the FileSender user and database

Run the following commands in a terminal to create the PostgreSQL user and database to be used by FileSender.

Create the database user filesender without special privileges and with a password. The command will prompt you to specify and confirm a password for the new user. This is the password you need to configure in the FileSender configuration file.

```
$ sudo -u postgres createuser -S -D -R -P filesender
Enter password for new role: <secret>
Enter it again: <secret>
```

Create the filesender database with UTF8 encoding owned by the newly created filesender user:

```
$ sudo -u postgres createdb -E UTF8 -O filesender filesender
$ psql -h localhost filesender filesender < /var/www/filesender/scripts/filesender_db
Password for user filesender: <secret>
NOTICE: CREATE TABLE will create implicit sequence "files_fileid_seq" for serial column
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "files_pkey" for table
CREATE TABLE
CREATE SEQUENCE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "logs_pkey" for table
CREATE TABLE
```

Configure your FileSender installation

To configure your FileSender installation, edit

/var/www/filesender/config/config.php

Carefully check and adapt the following settings. The minimum required changes to config.php are marked in **bold**:

```
$config['admin'] = '';
$config['adminEmail'] = 'Your.Address@example.org';
$config['Default_TimeZone'] = 'Europe/Berlin';

$config['site_url'] = $prot . $_SERVER['SERVER_NAME'] . '/filesender/'; // URL to f
$config['site_simplesamlurl'] = $prot . $_SERVER['SERVER_NAME'] . '/simplesaml/';

$config['site_filestore'] = '/var/www/filesender/files/';
$config['site_temp_filestore'] = '/var/www/filesender/tmp/';
$config['site_simplesamllocation'] = '/var/www/simplesamlphp-1.8.1/';
$config['log_location'] = '/var/www/filesender/log/';

$config['site_name'] = 'FileSender';

$config['forceSSL'] = true;

$config['pg_host'] = 'localhost'; // postgres database host
$config['pg_database'] = 'filesender'; // name of database on postgres
$config['pg_port'] = '5432'; // default port
$config['pg_username'] = 'filesender'; // username to connect to postgres database
$config['pg_password'] = '<secret>'; // password to connect to postgres database
```

Detailed information about the configuration settings of FileSender can be found in the [Administrator reference manual](#)

Configure Cron

Cron jobs are scheduled by setting up a "crontab." A crontab is a text file that contains the commands to be run.

Filesender uses a Cron job to remove files that have expired and close any vouchers that have expired.

Typically you would run the Cron job every night at a set time. Note that the Debian and RPM packages will install the required cronjob for you.

To edit a crontab through the command line, type:

```
crontab -e
```

Add the following line:

```
0 0 * * * php -q /var/www/filesender/cron/cron.php
```

This will run your cron page nightly at midnight.

Start using FileSender

<https://yoursite/filesender/>

Support and Feedback

See [Support and Mailinglists](#) and [Feature requests](#).

Comments are disabled for this space. In order to enable comments, Messages tool must be added to project.
[You can add Messages tool from Tools section on the Admin tab.](#)