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# **FileBrowser Documentation**

*Release 8.1.0*

**LfPHP Services**

**May 06, 2023**



# CONTENTS

<b>1</b>	<b>What is FileBrowser?</b>	<b>3</b>
1.1	Features & Goals . . . . .	3
1.2	Why Open Source on GitHub? . . . . .	4
1.3	Show Your Support . . . . .	4
1.4	License . . . . .	4
<b>2</b>	<b>Installation</b>	<b>5</b>
2.1	Minimum Requirements . . . . .	5
2.2	Download a Pre-Compiled Build . . . . .	5
2.2.1	Install on fresh Ubuntu 18.04 or Debian 10.3 . . . . .	5
2.3	Upgrade . . . . .	6
<b>3</b>	<b>Accounts</b>	<b>7</b>
3.1	User Roles . . . . .	7
3.2	User Permissions . . . . .	7
3.2.1	Guest Account . . . . .	7
3.3	Resetting Admin's Password . . . . .	8
<b>4</b>	<b>Configuration</b>	<b>9</b>
4.1	Basic configuration . . . . .	9
4.2	Adding Custom HTML . . . . .	10
4.3	Tweaking the Look . . . . .	10
<b>5</b>	<b>Authentication</b>	<b>11</b>
5.1	Default Auth Service . . . . .	11
5.2	Configuring Auth Service to Use A Database . . . . .	11
5.3	Configuring Auth Service to Use WordPress . . . . .	12
5.4	Configuring Auth Service to Use LDAP . . . . .	12
5.5	Custom Authentication Using Third-Party Software . . . . .	13
5.6	API Authentication . . . . .	13
<b>6</b>	<b>Logging</b>	<b>15</b>
6.1	Configuring the Logging Service . . . . .	15
<b>7</b>	<b>Router</b>	<b>17</b>
7.1	Router Service . . . . .	17
7.2	Routes File . . . . .	17
7.3	Controllers . . . . .	18
<b>8</b>	<b>Security</b>	<b>19</b>
8.1	Configuring the Security Service . . . . .	19

<b>9</b>	<b>Sessions</b>	<b>21</b>
9.1	Default Session Handler . . . . .	21
9.2	Configuring the Session Service to Use a Database . . . . .	21
9.3	Configuring Session Service to Use Redis . . . . .	22
9.4	Session Options . . . . .	22
<b>10</b>	<b>Storage</b>	<b>25</b>
10.1	Adapters . . . . .	25
10.2	Default Local Disk Adapter . . . . .	25
10.3	FTP Adapter . . . . .	26
10.4	SFTP Adapter . . . . .	26
10.5	Dropbox Adapter . . . . .	27
10.6	Amazon S3 Adapter (v3) . . . . .	27
10.7	DigitalOcean Spaces . . . . .	28
10.8	Microsoft Azure Blob Storage . . . . .	29
10.9	Replicate Adapter . . . . .	29
<b>11</b>	<b>Temporary File System Service</b>	<b>31</b>
<b>12</b>	<b>Translations</b>	<b>33</b>
12.1	How to Translate . . . . .	34
<b>13</b>	<b>Development</b>	<b>37</b>
13.1	Project Setup for Development (Linux) . . . . .	37
13.2	Compiles and Hot Reloads . . . . .	37
13.3	Running Tests & Static Analysis . . . . .	38
13.4	Deployment . . . . .	38
<b>14</b>	<b>FileBrowser License</b>	<b>39</b>
14.1	Apache License . . . . .	39
<b>15</b>	<b>Indices and tables</b>	<b>43</b>
	<b>Index</b>	<b>45</b>



# FileBrowser

FileBrowser Home Page



## WHAT IS FILEBROWSER?

**FileBrowser** is a free, [open-source](#), self-hosted web application for managing files and folders.

You can manage files inside your local repository folder (on your server's hard drive) or connect to other storage adapters (see below).

FileBrowser has multi-user support, so you can have administrators and other users managing their files with different access permissions, roles and home folders.

All basic file operations are supported: copy, move, rename, create, delete, zip, unzip, download, upload.

If allowed, users can download multiple files or folders at once.

File upload supports drag&drop, progress bar, pause and resume. Upload is chunked so you should be able to upload large files regardless of your server's configuration.

### 1.1 Features & Goals

- Multiple storage adapters (Local, FTP, Amazon S3, Dropbox, DO Spaces, Azure Blob and many others via [Flysystem](#)),
- Multiple authentication adapters with roles and permissions (store users in a json file, database, or use WordPress),
- Multiple session adapters (native file, Pdo, Redis, MongoDB, Memcached, and others via [Symfony](#)),
- Single page front-end (built with [Vue.js](#), [Bulma](#) and [Buefy](#)),
- Chunked uploads (built with [Resumable.js](#)),
- Zip and bulk download support,
- Highly extensible, decoupled and tested code,
- No database required.

## 1.2 Why Open Source on GitHub?

There are several reasons why we switched to the open source model.

Basically, we wanted to increase:

- Code quality by bringing more developers to the project,
- Code stability,
- Security,
- Project lifetime.

At the end, the more people can see and test some code, the more likely any flaws will be caught and fixed quickly.

## 1.3 Show Your Support

- Please star this repository on [GitHub](#) if this project helped you!

## 1.4 License

Copyright 2021, [Foreach Code Factory](#). Copyright 2018-2021, [Milos Stojanovic](#).

This project is Apache-2.0 licensed.



## INSTALLATION

### 2.1 Minimum Requirements

- FileBrowser 8.1.0: PHP 8.0 - 8.2 (with php-zip extension)
- FileBrowser 8.0.3: PHP 7.2 - 7.4 (with php-zip extension)

### 2.2 Download a Pre-Compiled Build

The pre-compiled builds are created for non-developers. With this version of the FileBrowser, the front end code (HTML, CSS and Javascript) is already pre-compiled for you, and the source code is removed, so that the final archive file contains only what is required to run the application on your server.

- Download the [latest release](#),
- Unzip the files, and upload them to your PHP server,
- Make sure your web server can read and write to the `filebrowser/repository/` and `filebrowser/private/` folders,
- Set the website document root to the `filebrowser/dist/` directory (this is also known as ‘public’ folder),
- Visit the web page, and if something goes wrong, please check `filebrowser/private/logs/app.log`,
- Login with default credentials `admin/admin123`,
- Change default admin’s password.

NOTE: For security reasons, the `/dist` folder is the ONLY folder you want to be exposed to the Web. Everything else should be outside of your web root. This way, people won’t be able to access any of your important files through the Web browser.

#### 2.2.1 Install on fresh Ubuntu 18.04 or Debian 10.3

On a new server, login as root and enter this into the shell:

```
apt update
apt install -y wget unzip php apache2 libapache2-mod-php php-zip

cd /var/www/
wget -O filebrowser_latest.zip https://filebrowser.linuxforphp.net/files/filebrowser_
↪latest.zip
```

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```
unzip filebrowser_latest.zip && rm filebrowser_latest.zip

chown -R www-data:www-data filebrowser/
chmod -R 775 filebrowser/

echo "
<VirtualHost *:80>
    DocumentRoot /var/www/filebrowser/dist
</VirtualHost>
" >> /etc/apache2/sites-available/filebrowser.conf

a2dissite 000-default.conf
a2ensite filebrowser.conf
systemctl restart apache2

exit
```

Open your browser and go to [http://your\\_server\\_ip\\_address](http://your_server_ip_address)

## 2.3 Upgrade

Since version 7 is completely rewritten from scratch, there is no clear upgrade path from older versions.

If you have an older version of FileBrowser please backup everything and install the script again.

Upgrade instructions for non-developers:

- Backup everything,
- Download the latest version,
- Replace all files and folders except `repository/` and `private/`.

To discover which version of the FileBrowser you are running, please look for `APP_VERSION` inside `dist/index.php` file

## 3.1 User Roles

There are three different user roles:

- Admin (for user and file management),
- User (regular, logged in user),
- Guest (anonymous, not logged in).

## 3.2 User Permissions

There are 6 different user permissions that the administrator can assign to each user:

- Read (user can browse and list files and folders),
- Write (user can copy, move, rename, and delete files),
- Upload (user can upload files to the repository),
- Download (user can download files from the repository),
- Batch Download (user can download multiple files and folders at once),
- Zip (user can zip and unzip files).

Some permissions require others. For example, Batch Download requires Read permissions (so that the user can list files and select them), as well as basic Download permissions.

### 3.2.1 Guest Account

The Guest account is a predefined account, and it is disabled by default since no permissions are assigned to it.

The Admin can enable the Guest account, which will allow anyone to interact with the repository based on the Guest account permissions.

## 3.3 Resetting Admin's Password

If you forgot your admin password you can follow these steps to reset it:

- Backup your current users file `private/users.json` to a safe place,
- Copy blank template `private/users.json.blank` over `private/users.json` or simply refresh your browser,
- Login as admin with default credentials `admin/admin123`,
- Put your original users file back to `private/users.json` replacing the template,
- Since you are now logged in as admin, simply go to users page and change your password,
- Log out and try to login with the new password.

Note: If you're using database Auth adapter then simply run this query to set default password back to `admin123`

```
UPDATE `users`  
SET `password` = '$2y$10$Nu35w4pteLfc7BDCIkDPkecjw8wsH8Y2GMfIewUbXLT7zzW6WOxwq'  
WHERE `username` = 'admin';
```

## CONFIGURATION

### 4.1 Basic configuration

All services are set with fairly conservative defaults. For regular users, there is no need to change anything. The application should work out of the box.

You can edit the `configuration.php` file in order to customize the application, by changing things like the logo, the title, the language settings, and the upload permissions.

All other configuration files can be found in the `config/` folder.

---

**Note:** If you make a mistake in any of the configuration files (forgot to close a quote?), the application will fail to load, and log an error. Please use the provided default `configuration_sample.php` file to restore the configuration to its initial state.

---

```
'frontend_config' => [  
    'app_name' => 'FileBrowser',  
    'app_version' => APP_VERSION,  
    'language' => 'english',  
    'logo' => 'https://linuxforphp.com/img/logo.svg',  
    'upload_max_size' => 100 * 1024 * 1024, // 100MB  
    'upload_chunk_size' => 1 * 1024 * 1024, // 1MB  
    'upload_simultaneous' => 3,  
    'default_archive_name' => 'archive.zip',  
    'editable' => ['.txt', '.css', '.js', '.ts', '.html', '.php', '.json', '.ini', '.cnf'  
↪', '.conf', '.env', '.monthly', '.weekly', '.daily', '.hourly', '.minute', '.htaccess'  
↪'],  
    'date_format' => 'YY/MM/DD hh:mm:ss', // see: https://momentjs.com/docs/##/  
↪displaying/format/  
    'guest_redirection' => '', // useful for external auth adapters  
    'search_simultaneous' => 5,  
    'filter_entries' => [],  
],
```

## 4.2 Adding Custom HTML

You can add additional html to the head and body like this:

```
'Filebrowser\Services\View\ViewInterface' => [  
  'handler' => '\Filebrowser\Services\View\Adapters\Vuejs',  
  'config' => [  
    'add_to_head' => '<meta name="author" content="something">',  
    'add_to_body' => '<script src="http://example.com/analytics.js"></script>',  
  ],  
],
```

## 4.3 Tweaking the Look

To change default color scheme and other options, edit `frontend/App.vue` When you're done, recompile with `npm run build` like described in the *Project Setup for Development (Linux)* section.

```
// Primary color  
$primary: #34B891;  
$primary-invert: findColorInvert($primary);  
  
$colors: (  
  "primary": ($primary, $primary-invert),  
  "info": ($info, $info-invert),  
  "success": ($success, $success-invert),  
  "warning": ($warning, $warning-invert),  
  "danger": ($danger, $danger-invert),  
);  
  
// Links  
$link: $primary;  
$link-invert: $primary-invert;  
$link-focus-border: $primary;  
  
// Disable the widescreen breakpoint  
$widescreen-enabled: false;  
  
// Disable the fullhd breakpoint  
$fullhd-enabled: false;
```

## AUTHENTICATION

### 5.1 Default Auth Service

By default, user credentials are stored in a json file. For some use cases, this is enough. It also makes this application lightweight since no database is required.

The default handler only accepts a filename parameter. This file should be writable by the web server.

```
'Filebrowser\Services\Auth\AuthInterface' => [  
  'handler' => '\Filebrowser\Services\Auth\Adapters\JsonFile',  
  'config' => [  
    'file' => __DIR__.'\private/users.json',  
  ],  
],
```

### 5.2 Configuring Auth Service to Use A Database

You can also use a MySQL database to store your users.

First, create a table users with this sql query:

```
CREATE TABLE `users` (  
  `id` int(10) NOT NULL AUTO_INCREMENT,  
  `username` varchar(255) NOT NULL,  
  `name` varchar(255) NOT NULL,  
  `role` varchar(20) NOT NULL,  
  `permissions` varchar(200) NOT NULL,  
  `homedir` varchar(2000) NOT NULL,  
  `password` varchar(255) NOT NULL,  
  PRIMARY KEY (`id`),  
  KEY `username` (`username`)  
) CHARSET=utf8 COLLATE=utf8_bin;
```

Then, import default users with sql query:

```
INSERT INTO `users` (`username`, `name`, `role`, `permissions`, `homedir`, `password`)  
VALUES  
( 'guest', 'Guest', 'guest', '', '/', '' ),  
( 'admin', 'Admin', 'admin', 'read|write|upload|download|batchdownload|zip', '/', '$2y$10  
↪$Nu35w4pteLfc7BDCIkDPkecjw8wsH8Y2GMfIewÜbXLT7zzW6W0xwq' );
```

At the end, open `configuration.php`, and update the `AuthInterface` handler with your database settings:

```
'Filebrowser\Services\Auth\AuthInterface' => [  
  'handler' => '\Filebrowser\Services\Auth\Adapters\Database',  
  'config' => [  
    'driver' => 'mysqli',  
    'host' => 'localhost',  
    'username' => 'root',  
    'password' => 'password',  
    'database' => 'filebrowser',  
  ],  
],
```

## 5.3 Configuring Auth Service to Use WordPress

Replace your current Auth handler in `configuration.php` file, like so:

```
'Filebrowser\Services\Auth\AuthInterface' => [  
  'handler' => '\Filebrowser\Services\Auth\Adapters\WPAuth',  
  'config' => [  
    'wp_dir' => '/var/www/my_wordpress_site/',  
    'permissions' => ['read', 'write', 'upload', 'download', 'batchdownload', 'zip'],  
    'private_repos' => false,  
  ],  
],
```

You can then adjust the following configuration elements:

- `wp_dir` should be the directory path of your wordpress installation,
- `permissions` is the array of permissions given to each user,
- `private_repos` must be set to true or false, in order to allow, or not, each user to have his own home folder.

With more recent versions of the FileBrowser you can set `guest_redirection` in your `configuration.php` to redirect logged out users back to your WordPress site, like so:

```
'frontend_config' => [  
  ...  
  'guest_redirection' => 'http://example.com/wp-admin/',  
  ...  
]
```

## 5.4 Configuring Auth Service to Use LDAP

Replace your current Auth handler in `configuration.php` file, like so:

```
'Filebrowser\Services\Auth\AuthInterface' => [  
  'handler' => '\Filebrowser\Services\Auth\Adapters\LDAP',  
  'config' => [  
    'private_repos' => false,  
    'ldap_server' => 'ldap://192.168.1.1',  
  ],  
],
```

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```

        'ldap_bindDN'=>'uid=ldapbinduser,cn=users,dc=ldap,dc=example,dc=com',
        'ldap_bindPass'=>'ldapbinduser-password',
        'ldap_baseDN'=>'cn=users,dc=ldap,dc=example,dc=com',
        'ldap_filter'=>'(uid=*)', //ex: 'ldap_filter'=>'(&
↔(uid=*)(memberOf=cn=administrators,cn=groups,dc=ldap,dc=example,dc=com))',
        'ldap_attributes' => ["uid","cn","dn"],
        'ldap_userFieldMapping'=> [
            'username' =>'uid',
            'name' =>'cn',
            'userDN' =>'dn',
            'default_permissions' => 'read|write|upload|download|batchdownload|zip',
            'admin_usernames' =>['user1', 'user2'],
        ],
    ],
],

```

## 5.5 Custom Authentication Using Third-Party Software

If you want to use FileBrowser as a part of another application, you probably already have users stored somewhere else. What you need in this case is to build a new custom Auth adapter that matches the [AuthInterface](#) to connect the applications together. This new adapter will allow the FileBrowser to try to authenticate users with the other application, and then translate each new user into one of its [User](#) objects.

## 5.6 API Authentication

When using the Authentication API, FileBrowser's front end application will use session-based authentication to authenticate users, and interact with the FileBrowser's back end handlers.

---

**Note:** The application will not work if you disable cookies.

---



## LOGGING

## 6.1 Configuring the Logging Service

Logging is provided through the powerful [Monolog](https://github.com/Seldaek/monolog) library. Please read their documentation for more details: <https://github.com/Seldaek/monolog>.

The default handler will simply use the `private/logs/app.log` file to store application logs and errors.

```
'Filebrowser\Services\Logger\LoggerInterface' => [  
  'handler' => '\Filebrowser\Services\Logger\Adapters\MonoLogger',  
  'config' => [  
    'monolog_handlers' => [  
      function () {  
        return new \Monolog\Handler\StreamHandler(  
          __DIR__ . '/private/logs/app.log',  
          \Monolog\Logger::DEBUG  
        );  
      },  
    ],  
  ],  
],
```

There are many different handlers you can add on top of this stack (`monolog_handlers` array). Some of them are listed [here](#).



## 7.1 Router Service

The Router service is the well-known [FastRoute](#) library. There is no need to change this service unless you're extending the script.

The router uses the unique query parameter `?r=` to pass route information to other application components. Because of this feature, this (single-page) application does not require rewrite rules in the `.htaccess` file, or similar modifications.

Example routes:

- `http://example.com/?r=/some/route&param1=val1&param2=val2`
- `http://example.com/?r=/user/{user_id}&param1=val1`

## 7.2 Routes File

The Routes files are located in the `config/` folder. There are two main files that will configure routes: `config/routes.config.php` and `config/routes.optional.config.php`. Each route is defined like so:

```
[
  'route' => [
    'GET', '/download/{path_encoded}', '\Filebrowser\Controllers\
↪DownloadController@download',
  ],
  'roles' => [
    'guest', 'user', 'admin',
  ],
  'permissions' => [
    'download',
  ],
],
```

As you can see in this example, you can assign required user roles and permissions for each route.

## 7.3 Controllers

Since FileBrowser is using an awesome dependency injection [container](#), you can type hint dependencies directly in the definition of a controller's action methods.

You can also mix route parameters and dependencies in any order, like in this example:

```
public function __construct(Config $config, Session $session, AuthInterface $auth, ↵
↵Filesystem $storage)
{
    // ...
}

public function download($path_encoded, Request $request, Response $response, ↵
↵StreamedResponse $streamedResponse)
{
    // ...
}
```

## 8.1 Configuring the Security Service

A simple security service is included in the application by default. This service provides:

- A basic session-based CSRF protection,
- An IP allow list,
- An IP deny list.

```
'Filebrowser\Services\Security\Security' => [  
  'handler' => '\Filebrowser\Services\Security\Security',  
  'config' => [  
    'csrf_protection' => true,  
    'csrf_key' => "123456", // randomize this  
    'ip_allowlist' => [],  
    'ip_denylist' => [  
      '172.16.1.2',  
      '172.16.3.4',  
    ],  
  ],  
],
```

If you set the `ip_allowlist` option, then only users coming from the listed IP addresses will be able to use the application.





## 9.1 Default Session Handler

Session handling is provided through Symfony's `HttpFoundation` component. Please check their documentation for more details: [https://symfony.com/doc/4.4/components/http\\_foundation.html](https://symfony.com/doc/4.4/components/http_foundation.html).

The default session handler will use PHP's built-in file storage. You can also specify your own `$save_path` to store the session files.

```
'Filebrowser\Services\Session\SessionStorageInterface' => [  
    'handler' => '\Filebrowser\Services\Session\Adapters\SessionStorage',  
    'config' => [  
        'handler' => function () {  
            $save_path = null; // use default system path  
            //$save_path = __DIR__.'/private/sessions';  
            $handler = new \Symfony\Component\HttpFoundation\Session\Storage\Handler\  
↪NativeFileSessionHandler($save_path);  
  
            return new \Symfony\Component\HttpFoundation\Session\Storage\  
↪NativeSessionStorage([], $handler);  
        },  
    ],  
],
```

## 9.2 Configuring the Session Service to Use a Database

First, create a table `sessions` with this SQL:

```
CREATE TABLE `sessions` (  
    `sess_id` varbinary(128) NOT NULL,  
    `sess_data` blob NOT NULL,  
    `sess_lifetime` mediumint(9) NOT NULL,  
    `sess_time` int(10) unsigned NOT NULL,  
    PRIMARY KEY (`sess_id`)  
) CHARSET=utf8 COLLATE=utf8_bin;
```

Then, open `configuration.php`, and update the Session handler to:

```
'Filebrowser\Services\Session\SessionStorageInterface' => [
  'handler' => '\Filebrowser\Services\Session\Adapters\SessionStorage',
  'config' => [
    'handler' => function () {
      $handler = new \Symfony\Component\HttpFoundation\Session\Storage\Handler\
↪PdoSessionHandler(
        'mysql://root:password@localhost:3306/filebrowser'
      );

      return new \Symfony\Component\HttpFoundation\Session\Storage\
↪NativeSessionStorage([], $handler);
    },
  ],
],
```

Don't forget to enter the correct database credentials.

### 9.3 Configuring Session Service to Use Redis

You must require the additional `redis` library `composer require predis/predis` in order to use this session handler. Then, please modify the `configuration.php` file, like so:

```
'Filebrowser\Services\Session\SessionStorageInterface' => [
  'handler' => '\Filebrowser\Services\Session\Adapters\SessionStorage',
  'config' => [
    'handler' => function () {
      $predis = new \Predis\Client('tcp://127.0.0.1:6379');
      $handler = new \Symfony\Component\HttpFoundation\Session\Storage\Handler\
↪RedisSessionHandler($predis);

      return new \Symfony\Component\HttpFoundation\Session\Storage\
↪NativeSessionStorage([], $handler);
    },
  ],
],
```

### 9.4 Session Options

The underlying `session` component accepts array of options. For example, you can pass the `cookie_lifetime` parameter to extend the default session lifetime:

```
'Filebrowser\Services\Session\SessionStorageInterface' => [
  'handler' => '\Filebrowser\Services\Session\Adapters\SessionStorage',
  'config' => [
    'handler' => function () {
      $handler = new \Symfony\Component\HttpFoundation\Session\Storage\Handler\
↪PdoSessionHandler(
        'mysql://root:password@localhost:3306/filebrowser'
      );
    },
  ],
],
```

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```
        return new \Symfony\Component\HttpFoundation\Session\Storage\  
↪NativeSessionStorage([  
            'cookie_lifetime' => 365 * 24 * 60 * 60, // one year  
        ], $handler);  
    },  
],  
],
```



All of the basic configuration for storage adapters is done in the `configuration.php` file.

## 10.1 Adapters

Different storage adapters are provided through the versatile [Flysystem](#) library.

You can use the local filesystem (default), FTP, SFTP, Amazon S3, DigitalOcean Spaces, Microsoft Azure Blob, Dropbox, and many others.

Please check the [Flysystem documentation](#) for the exact setup that is required for each adapter.

---

**Note:** Some adapters do not support, or only support in a very limited way, some folder operations.

---

## 10.2 Default Local Disk Adapter

For the default adapter, you only need to configure the location of your repository folder in the `configuration.php` file. This folder will then serve as the root folder of all the files and folders of the repository.

If you wish to use the `zip` and `unzip` binaries directly, without using the `Flysystem` per se, you can set the `fastzip` option to `true` (default). Zipping with this option is not only faster, but will also manage any Unix special files (symlinks, sparse files, etc.) appropriately.

```
'storage' => [
    'driver' => [
        'config' => [
            'separator' => '/',
            'config' => [],
            'adapter' => function () {
                return new \League\Flysystem\Adapter\Local(
                    REPOSITORY_ROOT
                );
            },
        ],
        'fastzip' => true // LOCAL ONLY! If true, it will override the \League\Flysystem\
↳Adapter\Local adapter, and use the zip and unzip binaries directly.
    ],
],
```

## 10.3 FTP Adapter

Please see the official [documentation](#).

Sample configuration:

```
'storage' => [  
  'driver' => [  
    'config' => [  
      'separator' => '/',  
      'config' => [],  
      'adapter' => function () {  
        return new \League\Flysystem\Adapter\Ftp([  
          'host' => 'example.com',  
          'username' => 'demo',  
          'password' => 'password',  
          'port' => 21,  
          'timeout' => 10,  
        ]);  
      },  
    ],  
  ],  
],
```

## 10.4 SFTP Adapter

You must require an additional library in order to use this adapter:

```
composer require league/flysystem-sftp
```

For more advanced options like using your private key or changing the document root, please see the official [documentation](#).

Sample configuration:

```
'storage' => [  
  'driver' => [  
    'config' => [  
      'separator' => '/',  
      'config' => [],  
      'adapter' => function () {  
        return new \League\Flysystem\Sftp\SftpAdapter([  
          'host' => 'example.com',  
          'port' => 22,  
          'username' => 'demo',  
          'password' => 'password',  
          'timeout' => 10,  
        ]);  
      },  
    ],  
  ],  
],
```

## 10.5 Dropbox Adapter

You must require an additional library in order to use this adapter:

```
composer require spatie/flysystem-dropbox
```

Please see the official [documentation](#).

Sample configuration:

```
'storage' => [
    'driver' => [
        'config' => [
            'separator' => '/',
            'config' => [
                'case_sensitive' => false,
            ],
        ],
        'adapter' => function () {
            $authorizationToken = '1234';
            $client = new \Spatie\Dropbox\Client($authorizationToken);

            return new \Spatie\FlysystemDropbox\DropboxAdapter($client);
        },
    ],
],
```

## 10.6 Amazon S3 Adapter (v3)

You must require an additional library in order to use this adapter:

```
composer require league/flysystem-aws-s3-v3
```

Please see the official [documentation](#).

Sample configuration:

```
'storage' => [
    'driver' => [
        'config' => [
            'separator' => '/',
            'config' => [],
        ],
        'adapter' => function () {
            $client = new \Aws\S3\S3Client([
                'credentials' => [
                    'key' => '123456',
                    'secret' => 'secret123456',
                ],
            ],
            'region' => 'us-east-1',
            'version' => 'latest',
        ]);
    ],
],
```

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```
        return new \League\Flysystem\AwsS3v3\AwsS3Adapter($client, 'my-bucket-name
↵');
    },
    ],
],
```

## 10.7 DigitalOcean Spaces

You must require an additional library in order to use this adapter:

```
composer require league/flysystem-aws-s3-v3
```

The DigitalOcean Spaces API are compatible with those of S3.

Please see the official [documentation](#).

Sample configuration:

```
'storage' => [
    'driver' => [
        'config' => [
            'separator' => '/',
            'config' => [],
            'adapter' => function () {
                $client = new \Aws\S3\S3Client([
                    'credentials' => [
                        'key' => '123456',
                        'secret' => 'secret123456',
                    ],
                    'region' => 'us-east-1',
                    'version' => 'latest',
                    'endpoint' => 'https://nyc3.digitaloceanspaces.com',
                ]);

                return new \League\Flysystem\AwsS3v3\AwsS3Adapter($client, 'my-bucket-name
↵');
            },
        ],
    ],
],
```



## 10.8 Microsoft Azure Blob Storage

You must require an additional library in order to use this adapter:

```
composer require league/flysystem-azure-blob-storage
```

Please see the official [documentation](#).

Sample configuration:

```
'storage' => [
    'driver' => [
        'config' => [
            'separator' => '/',
            'config' => [],
            'adapter' => function () {
                $accountName = 'your_storage_account_name';
                $accountKey = '123456';
                $containerName = 'my_container';

                $client = \MicrosoftAzure\Storage\Blob\BlobRestProxy::createBlobService(
                    "DefaultEndpointsProtocol=https;AccountName=${accountName};AccountKey=
↪${accountKey};"
                );

                return new \League\Flysystem\AzureBlobStorage\AzureBlobStorageAdapter(
↪$client, $containerName);
            },
        ],
    ],
],
```

## 10.9 Replicate Adapter

You must require an additional library in order to use this adapter:

```
composer require league/flysystem-replicate-adapter
```

The ReplicateAdapter facilitates smooth transitions between adapters, allowing an application to stay functional and migrate its files from one adapter to another. The adapter takes two other adapters, a source and a replica. Every change is delegated to both adapters, while all the read operations are passed onto the source only.

Please see the official [documentation](#).

Sample configuration:

```
'storage' => [
    'driver' => [
        'config' => [
            'separator' => '/',
            'config' => [
                'case_sensitive' => false,
            ],
        ],
    ],
],
```

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```
'adapter' => function () {
    $authorizationToken = '1234';
    $client = new \Spatie\Dropbox\Client($authorizationToken);

    $source = new \Spatie\FlysystemDropbox\DropboxAdapter($client);
    $replica = new \League\Flysystem\Adapter\Local(__DIR__.'/repository');

    return new League\Flysystem\Replicate\ReplicateAdapter($source, $replica);
},
],
],
```

## TEMPORARY FILE SYSTEM SERVICE

This service is responsible for managing temporary files. TMP files are created:

- When uploading files, chunks are stored in the TMP folder before merging and moving them to the final storage destination,
- When creating and extracting archives (zip files),
- When downloading multiple files, they are copied into the TMP folder before zipping.

Tmp files are usually removed immediately after their use. For expired files, configurable garbage collection is used:

```
'Filebrowser\Services\Tmpfs\TmpfsInterface' => [  
  'handler' => '\Filebrowser\Services\Tmpfs\Adapters\Tmpfs',  
  'config' => [  
    'path' => __DIR__.'\private/tmp/',  
    'gc_probability_perc' => 10,  
    'gc_older_than' => 60 * 60 * 24 * 2, // 2 days  
  ],  
],
```

---

**Note:** if you want to use this script as a stateless app or in any kind of multi-node environment, you must mount a single shared TMP folder for all the instances. You can solve this problem with [Amazon Elastic File System](#), or a similar approach.

---



## TRANSLATIONS

The language setting is configured by adjusting the language variable in the `configuration.php` file.

Available languages:

- english (default)
- spanish
- german
- indonesian
- turkish
- lithuanian
- portuguese
- dutch
- chinese (simplified)
- bulgarian
- serbian
- french
- slovak
- polish
- italian
- korean
- czech
- galician
- russian
- hungarian
- swedish
- japanese

Please help us in translating the FileBrowser application to your language, by submitting a Pull Request on GitHub.

## 12.1 How to Translate

First, you must setup the project like described in the *Project Setup for Development (Linux)* section. The default language file is located under `frontend/translations/english.js`. You can add more languages in the same folder. Once your language file is in place, it needs to be added to `frontend/mixins/shared.js` file. After this, recompile everything with `npm run build`, and you will then be able to use it by changing the language variable in the `configuration.php` file.

You should only translate the value on the right. For example:

```
'Close': 'Schliessen',
```

Here is the default language file:

```
const data = {
  'Selected': 'Selected: {0} of {1}',
  'Uploading files': 'Uploading {0}% of {1}',
  'File size error': '{0} is too large, please upload files less than {1}',
  'Upload failed': '{0} failed to upload',
  'Per page': '{0} Per Page',
  'Folder': 'Folder',
  'Login failed, please try again': 'Login failed, please try again',
  'Already logged in': 'Already logged in.',
  'Please enter username and password': 'Please enter username and password.',
  'Not Found': 'Not Found',
  'Not Allowed': 'Not Allowed',
  'Please log in': 'Please log in',
  'Unknown error': 'Unknown error',
  'Add files': 'Add files',
  'New': 'New',
  'New name': 'New name',
  'Username': 'Username',
  'Password': 'Password',
  'Login': 'Log in',
  'Logout': 'Log out',
  'Profile': 'Profile',
  'No pagination': 'No pagination',
  'Time': 'Time',
  'Name': 'Name',
  'Size': 'Size',
  'Home': 'Home',
  'Copy': 'Copy',
  'Move': 'Move',
  'Rename': 'Rename',
  'Required': 'Please fill out this field',
  'Zip': 'Zip',
  'Batch Download': 'Batch Download',
  'Unzip': 'Unzip',
  'Delete': 'Delete',
  'Download': 'Download',
  'Copy link': 'Copy link',
  'Done': 'Done',
  'File': 'File',
```

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```
'Drop files to upload': 'Drop files to upload',
'Close': 'Close',
'Select Folder': 'Select Folder',
'Users': 'Users',
'Files': 'Files',
'Role': 'Role',
'Cancel': 'Cancel',
'Paused': 'Paused',
'Confirm': 'Confirm',
'Create': 'Create',
'User': 'User',
'Admin': 'Admin',
'Save': 'Save',
'Read': 'Read',
'Write': 'Write',
'Upload': 'Upload',
'Permissions': 'Permissions',
'Homedir': 'Home Folder',
'Leave blank for no change': 'Leave blank for no change',
'Are you sure you want to do this?': 'Are you sure you want to do this?',
'Are you sure you want to allow access to everyone?': 'Are you sure you want to allow_
↵access to everyone?',
'Are you sure you want to stop all uploads?': 'Are you sure you want to stop all_
↵uploads?',
'Something went wrong': 'Something went wrong',
'Invalid directory': 'Invalid directory',
'This field is required': 'This field is required',
'Username already taken': 'Username already taken',
'User not found': 'User not found',
'Old password': 'Old password',
'New password': 'New password',
'Wrong password': 'Wrong password',
'Updated': 'Updated',
'Deleted': 'Deleted',
'Your file is ready': 'Your file is ready',
'View': 'View',
}

export default data
```





## DEVELOPMENT

### 13.1 Project Setup for Development (Linux)

You must have `git`, `php`, `npm`, and `composer` installed.

If you have *Docker* and *Linux for Composer* (<https://github.com/linuxforphp/linuxforcomposer>) on your computer, you can start the container with the following command:

```
git clone https://github.com/linuxforphp/filebrowser.git
cd filebrowser
composer install --ignore-platform-reqs
vendor/bin/linuxforcomposer docker:run start
```

When you are ready to stop the container, enter the following command:

```
vendor/bin/linuxforcomposer docker:run stop-force
```

Otherwise, you can install the application manually, using the following commands:

```
git clone https://github.com/linuxforphp/filebrowser.git
cd filebrowser
cp configuration_sample.php configuration.php
chmod -R 775 private/
chmod -R 775 repository/
composer install --ignore-platform-reqs
npm install
npm run build
```

### 13.2 Compiles and Hot Reloads

The following command will launch the back end and the front end of the application on ports 8081 and 8080 respectively:

```
npm run serve
```

Once everything is ready, please visit: `http://localhost:8080`

## 13.3 Running Tests & Static Analysis

Testing requires xdebug, php-zip and sqlite php extensions.

```
vendor/bin/phpunit  
vendor/bin/phpstan analyse ./backend  
npm run lint  
npm run e2e
```

## 13.4 Deployment

Set the website document root to the `/dist` directory. This is also known as the ‘public’ folder.

NOTE: For security reasons, the `/dist` folder is the ONLY folder you want to be exposed to the Web. Everything else should be outside of your web root. This way, people won’t be able to access any of your important files through the Web browser.

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## INDICES AND TABLES

- genindex
- search





**A**

Accounts, 7  
Adding a MOTD, 10  
Authentication, 11  
Authentication API, 13  
Authentication customization, 13  
Authentication database, 11  
Authentication default, 11  
Authentication with LDAP, 12  
Authentication with WordPress, 12

**C**

Change the look, 10  
Compilation, 37  
Configuration, 9  
Configuration basics, 9  
Configuration customizations, 10  
Controllers, 18

**D**

Debian (*installation*), 5  
Deployment, 38  
Development, 37  
Development setup, 37

**F**

FileBrowser, 3  
Front end changes, 10

**G**

Guest account, 7

**I**

Installation, 5

**L**

License, 38  
Logging, 15  
Logging configuration, 15

**P**

Page customizations, 10

Pre-compiled build, 5

**R**

Requirements, 5  
Reset password, 8  
Router, 17  
Routes file, 17

**S**

Security, 19  
Security configuration, 19  
Session default handler, 21  
Session handler with databases, 21  
Session handler with Redis, 22  
Session options, 22  
Sessions, 21  
Storage, 25  
Storage adapters, 25  
Storage Amazon S3 adapter, 27  
Storage Azure Blob adapter, 29  
Storage DigitalOcean adapter, 28  
Storage Dropbox adapter, 27  
Storage fastzip option, 25  
Storage FTP adapter, 26  
Storage local adapter, 25  
Storage Replicate adapter, 29  
Storage SFTP adapter, 26

**T**

Temporary file system service, 31  
Testing, 38  
Translate FileBrowser, 34  
Translations, 33

**U**

Ubuntu (*installation*), 5  
Upgrade, 6  
User permissions, 7  
User roles, 7